An Oshkosh Corporation Company

Operation and Safety Manual

Original Instructions - Keep this manual with the machine at all times.

Model
1030P

ANSI

3121789
February 2, 2021 - Rev B

⚠ WARNING

Operating, servicing and maintaining this vehicle or equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle or equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing. For more information go to www.P65Warnings.ca.gov.

FOREWORD

The Mobile Elevating Work Platform (MEWP) models covered in this manual are designed and tested to meet or exceed various compliance standards. Please refer to the manufacturer's nameplate affixed to the subject MEWP for specific standard compliance information.

This manual is a very important tool! Keep it with the machine at all times.

The purpose of this manual is to provide owners, users, operators, lessors, and lessees with the precautions and operating procedures essential for the safe and proper machine operation for its intended purpose.

Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.

Refer to www.JLG.com for Warranty, Product Registration, and other machine-related documentation.

SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS



This is the Safety Alert Symbol. It is used to alert you to the potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death

⚠ DANGER

INDICATES AN IMMINENTLY HAZARDOUS SITUATION. IF NOT AVOIDED, WILL RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE A RED BACKGROUND.

⚠ WARNING

INDICATES A POTENTIALLY HAZARDOUS SITUATION. IF NOT AVOIDED, COULD RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE AN ORANGE BACKGROUND.

⚠ CAUTION

INDICATES A POTENTIALLY HAZARDOUS SITUATION. IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT MAY ALSO ALERT AGAINST UNSAFE PRACTICES. THIS DECAL WILL HAVE A YELLOW BACKGROUND.

NOTICE

INDICATES INFORMATION OR A COMPANY POLICY THAT RELATES DIRECTLY OR INDIRECTLY TO THE SAFETY OF PERSONNEL OR PROTECTION OF PROPERTY.

⚠ WARNING

THIS PRODUCT MUST COMPLY WITH ALL SAFETY RELATED BULLETINS. CONTACT JLG INDUSTRIES, INC. OR THE LOCAL AUTHORIZED JLG REPRESENTATIVE FOR INFORMATION REGARDING SAFETY RELATED BULLETINS WHICH MAY HAVE BEEN ISSUED FOR THIS PRODUCT.

NOTICE

JLG INDUSTRIES, INC. SENDS SAFETY RELATED BULLETINS TO THE OWNER OF RECORD OF THIS MACHINE. CONTACT JLG INDUSTRIES, INC. TO ENSURE THAT THE CURRENT OWNER RECORDS ARE UPDATED AND ACCURATE.

NOTICE

JLG INDUSTRIES, INC. MUST BE NOTIFIED IMMEDIATELY IN ALL INSTANCES WHERE JLG PRODUCTS HAVE BEEN INVOLVED IN AN ACCIDENT INVOLVING BODILY INJURY OR DEATH OR WHEN SUBSTANTIAL DAMAGE HAS OCCURRED TO PERSONAL PROPERTY OR THE JLG PRODUCT.

For:

- Accident Reporting
- Product Safety Publications
- Current Owner Updates
- Questions Regarding Product Safety
- Standards and Regulations Compliance Information
- Questions Regarding Special Product Applications
- Questions Regarding Product Modifications

Contact :

Product Safety and Reliability Department
JLG Industries, Inc.
1 JLG Drive
McConnellsburg, PA 17233

or Your Local JLG Office
(Visit www.jlg.com to find your local JLG office.)

In USA:

Toll Free: 877-JLG-SAFE (877-554-7233)

Outside USA:

Phone: 717-485-5161
E-mail: ProductSafety@JLG.com

REVISION LOG

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SECTION - 1 - SAFETY PRECAUTIONS

1.1 GENERAL 1-1
1.2 PRE-OPERATION 1-1
Operator Training and Knowledge 1-1
Workplace Inspection 1-2
Machine Inspection 1-2
1.3 OPERATION 1-3
General 1-3
Trip and Fall Hazard 1-3
Electrocution Hazard 1-4
Tipping Hazards 1-5
Crushing and Collision Hazards 1-7
1.4 TRANSPORTING 1-8
Tipping Hazards 1-8
1.5 MOVING, LIFTING AND REPOSITIONING 1-10
General 1-10
Additional Safety Information. 1-10
1.6 MAINTENANCE 1-10
Maintenance Hazards 1-10
Battery Hazards 1-11

SECTION - 2 - PREPARATION AND INSPECTION

2.1 PERSONNEL TRAINING 2-1
Operator Training 2-1
Training Supervision 2-1
Operator Responsibility 2-1
Machine Familiarization. 2-2
2.2 PREPARATION, INSPECTION, AND MAINTENANCE 2-2
Inspection and Maintenance Table 2-3
2.3 PRE-START INSPECTION 2-4
2.4 WALK-AROUND INSPECTION 2-5
2.5 FUNCTION CHECK 2-7

SECTION - 3 - MACHINE OPERATION

3.1 GENERAL 3-1
3.2 MACHINE DESCRIPTION 3-1
3.3 OPERATING CHARACTERISTICS AND LIMITATIONS 3-2
Placards 3-2
Capacities 3-2
Stability 3-2
3.4 PLATFORM LOADING 3-2
3.5 MACHINE OPERATION 3-3
Battery Charger 3-3
Positioning and Leveling Machine. 3-5
Entering/Exiting the Platform 3-5
Ground Control Panel 3-6
Platform Control Panel 3-7

3.6 EMERGENCY LOWERING VALVE 3-8
3.7 TRANSPORTATION, LIFTING, AND TIE-DOWN PROCEDURES.....3-9
Loading or Towing 3-9
Vehicle Transport..... 3-9
Storage 3-9
Transportation Diagram 3-10
3.8 MACHINE DECALS 3-11

SECTION - 4 - EMERGENCY PROCEDURES

4.1 GENERAL INFORMATION.....4-1
4.2 EMERGENCY OPERATION 4-1
Operator Unable to Control Machine..... 4-1
Platform Caught Overhead 4-1
Righting of Tipped Machine..... 4-2
4.3 INCIDENT NOTIFICATION.....4-2
4.4 EMERGENCY LOWERING VALVE 4-3

SECTION - 5 - SPECIFICATIONS & OPERATOR MAINTENANCE

5.1 INTRODUCTION.....5-1
Other Publications Available Specific to this Machine..... 5-1
5.2 SERIAL NUMBER PLATE 5-1
5.3 MACHINE SPECIFICATIONS.....5-2
General 5-2
Power Source 5-2
Battery Charger..... 5-2
Hydraulic Oil..... 5-2
Working Envelope 5-3
5.4 OPERATOR MAINTENANCE 5-3
Accessing Base Frame Components 5-3
Battery 5-4
Battery Charger..... 5-4
Hydraulic System 5-5
Lubrication 5-6
Wheels & Castors 5-7

SECTION - 6 - INSPECTION AND REPAIR LOG

SECTION 1. SAFETY PRECAUTIONS

1.1 GENERAL

This section outlines the necessary precautions for proper and safe machine usage and maintenance. In order to promote proper machine usage, it is mandatory that a daily routine is established based on the content of this manual. A maintenance program, using the information provided in the Service and Maintenance section, must also be established by a qualified person and must be followed to ensure that the machine is safe to operate.

The owner/user/operator/lessor/lessee of the machine must not accept operating responsibility until this manual has been read, training is accomplished, and operation of the machine has been completed under the supervision of an experienced and qualified operator.

These sections contain the responsibilities of the owner, user, operator, lessor, and lessee concerning safety, training, inspection, maintenance, application, and operation. If there are any questions with regard to safety, training, inspection, maintenance, application, and operation, please contact JLG Industries, Inc. ("JLG").

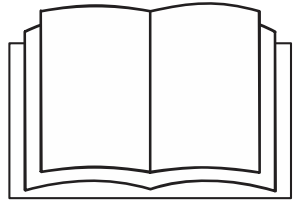
⚠ WARNING

FAILURE TO COMPLY WITH THE SAFETY PRECAUTIONS LISTED IN THIS MANUAL COULD RESULT IN MACHINE DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

1.2 PRE-OPERATION

Operator Training and Knowledge

- Read, understand, and study the Operation and Safety Manual in its entirety before operating the machine. For clarification, questions, or additional information regarding any portions of this manual, contact JLG Industries, Inc.



- Only personnel who have received proper training regarding the inspection, application and operation of MEWPs (including recognition and avoiding hazards associated with their operation) shall be authorized to operate a MEWP.
- Only properly trained personnel who have received unit-specific familiarization shall operate a MEWP. The user shall determine if personnel are qualified to operate the MEWP prior to operation.
- Read, understand, and obey all DANGERS, WARNINGS, CAUTIONS, and operating instructions on the machine and in this manual.
- Ensure that the machine is to be used in a manner which is within the scope of its intended application as determined by JLG.

- All operating personnel must have a thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground and emergency descent controls.
- Read, understand, and obey all applicable employer, local, and governmental regulations as they pertain to your utilization and application of the machine.

Workplace Inspection

- Precautions to avoid all hazards in the work area must be taken by the user before and during operation of the machine.
- Do not operate or raise the platform from a position on trucks, trailers, railway cars, floating vessels, scaffolds or other equipment unless the application is approved in writing by JLG.
- Before operation, check work area for overhead hazards such as electric lines, bridge cranes, and other potential overhead obstructions.
- Check operating surfaces for holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards.
- Check the work area for hazardous locations. Do not operate the machine in hazardous environments unless approved for that purpose by JLG.
- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel.

Machine Inspection

- Do not operate this machine until inspections and functional checks have been performed as specified in Section 2 of the manual.
- Do not operate this machine until it has been serviced and maintained according to the maintenance and inspection requirements as specified in the Service and Maintenance section of this manual.
- Ensure all safety devices are operating properly. Modification of these devices is a safety violation.

⚠ WARNING

MODIFICATION OR ALTERATION OF A MEWP SHALL BE MADE ONLY WITH PRIOR WRITTEN PERMISSION FROM THE MANUFACTURER.

- Do not operate any machine on which the safety or instruction placards or decals are missing or illegible.
- Check the machine for modifications to original components. Ensure that any modifications have been approved by JLG.
- Avoid accumulation of debris on platform floor. Keep mud, oil, grease, and other slippery substances from footwear and platform floor.

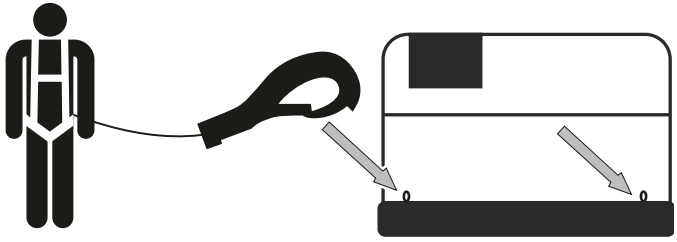
1.3 OPERATION

General

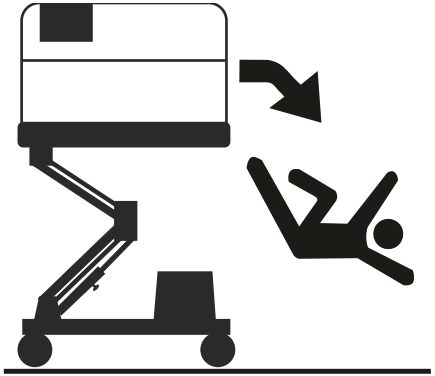
- Machine operation requires your full attention. Bring the machine to a full stop before using any device, i.e. cell phones, two-way radios, etc. that will distract your attention from safely operating the machine.
- Do not use the machine for any purpose other than positioning personnel, their tools, and equipment.
- Before operation, the user must be familiar with the machine capabilities and operating characteristics of all functions.
- Never operate a malfunctioning machine. If a malfunction occurs, shut down the machine. Remove the unit from service and notify the proper authorities.
- Do not remove, modify, or disable any safety devices.
- Do not allow personnel to tamper with or operate the machine from the ground with personnel in the platform, except in an emergency.
- Do not carry materials directly on platform railing unless approved by JLG.
- Always ensure that power tools are properly stowed and never left hanging by their cord from the platform work area.
- Fully lower platform before leaving machine.
- Remove all rings, watches, and jewelry when operating machine. Do not wear loose fitting clothing or long hair unrestrained which may become caught or entangled in equipment.
- Persons under the influence of drugs or alcohol or who are subject to seizures, dizziness, or loss of physical control must not operate this machine.

Trip and Fall Hazard

- Prior to operation, ensure all gates and rails are fastened and secured in their proper position.

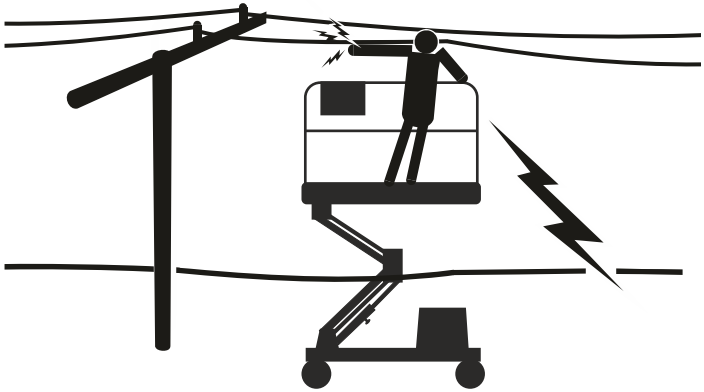


- JLG Industries, Inc. recommends all personnel in the platform wear a fall/travel restraint system in the platform with a lanyard attached to an authorized lanyard anchorage point while operating this machine. For further information regarding fall protection requirements on JLG products, contact JLG Industries, Inc.
- Identify the designated lanyard anchorage point at the platform and securely attach the lanyard. Attach only one (1) lanyard per lanyard anchorage point.
- Enter and exit only through gate area. Use extreme caution when entering or leaving platform. Ensure that the platform assembly is fully lowered. Face the machine when entering or leaving the platform. Always maintain “three point contact” with the machine, using two hands and one foot or two feet and one hand at all times during entry and exit.



- Keep both feet firmly positioned on the platform floor at all times. Never position ladders, boxes, steps, planks, or similar items on unit to provide additional reach for any purpose.
- Never use the arm assembly to gain access to or leave the platform.
- Keep oil, mud, and slippery substances cleaned from footwear and the platform floor.

Electrocution Hazard



- This machine is not insulated and does not provide protection from contact or proximity to electrical current.
- Maintain distance from electrical lines, apparatus, or any energized (exposed or insulated) parts according to the Minimum Approach Distance (MAD) as shown in Table 1-1.
- Allow for machine movement and electrical line swaying.
- Maintain a clearance of at least 10 ft (3 m) between any part of the machine and its occupants, their tools, and their equipment from any electrical line or apparatus carrying up to 50,000 volts. One foot additional clearance is required for every additional 30,000 volts or less.

Table 1-1. Minimum Approach Distances (M.A.D.)

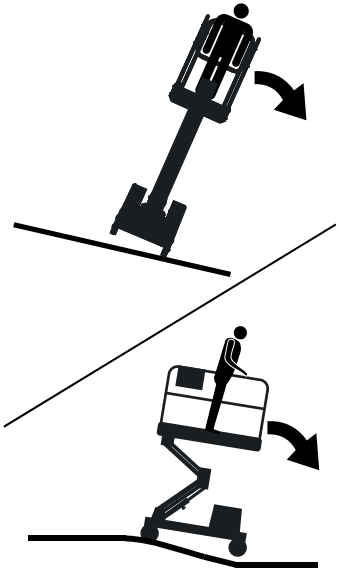
VOLTAGE RANGE (Phase to Phase)	MINIMUM APPROACH DISTANCE in Feet (Meters)
0 to 50 KV	10 (3)
Over 50KV to 200 KV	15 (5)
Over 200 KV to 350 KV	20 (6)
Over 350 KV to 500 KV	25 (8)
Over 500 KV to 750 KV	35 (11)
Over 750 KV to 1000 KV	45 (14)
NOTE: This requirement shall apply except where employer, local or governmental regulations are more stringent.	

- Minimum approach distance may be reduced if insulating barriers are installed to prevent contact and they are rated for the voltage of the line being guarded. These barriers shall not be part of (or attached to) the machine. Minimum approach distance shall be reduced to a distance within the designed working dimensions of the insulating barrier. This determination shall be made by a qualified person in accordance with the employer, local, or governmental requirements for work practices near energized equipment.

⚠ DANGER

DO NOT MANEUVER MACHINE OR PERSONNEL INSIDE PROHIBITED ZONE (MAD). ASSUME ALL ELECTRICAL PARTS AND WIRING ARE ENERGIZED UNLESS KNOWN OTHERWISE.

Tipping Hazards



- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel. Do not operate machine on unsupported surfaces.
- The user must be familiar with the operating surface. Do not exceed the allowable sideslope and grade.

- Do not elevate platform while on or near a sloping, uneven, or soft surface. Ensure machine is positioned on a smooth, firm surface within the limits of the maximum operating slope before elevating platform.
- Before operating on floors, bridges, trucks, and other surfaces, check allowable capacity of the surfaces.
- Never exceed the maximum platform capacity as specified on the platform. Keep all loads within the confines of the platform, unless authorized by JLG.
- Keep the chassis of the machine a minimum of 2 ft (0.6 m) from holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards at the ground level.
- Do not operate the machine when wind conditions exceed specifications shown in Section 5 or as shown on the capacity placard on the platform billboard. Factors affecting wind speed are; platform elevation, surrounding structures, local weather events, and approaching storms.
- Wind speed can be significantly greater at height than at ground level.
- Wind speed can change rapidly. Always consider approaching weather events, the time required to lower the platform, and methods to monitor current and potential wind conditions.
- Do not cover or increase surface area of the platform or the load. Do not carry large surface area items in the platform when operating outdoors. The addition of such items increases the exposed wind area of the machine. Increased areas exposed to wind will decrease stability.
- Never operate machine in high wind, rain, or snow.
- Do not perform work that will subject unit to a horizontal force or create a swaying motion of the platform.
- Never attempt to use the machine as a crane. Do not tie-off machine to any adjacent structure. Never attach wire, cable, or any similar items to platform.
- If the arm assembly or platform is caught so that one or more wheels are off the ground, platform personnel must be removed before attempting to free the machine. Use cranes, forklift trucks, or other appropriate equipment to stabilize machine.

Crushing and Collision Hazards



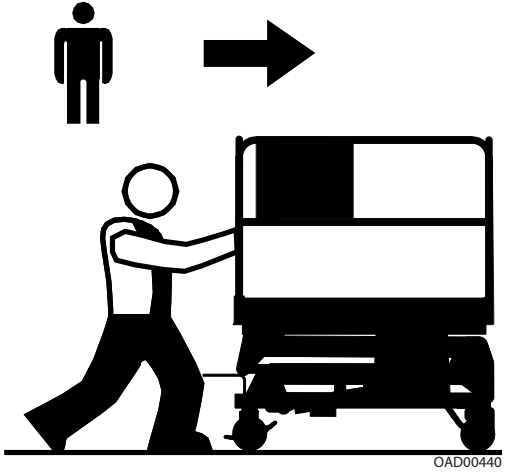
- Approved head gear must be worn by all operating and ground personnel.
- Check clearances above, on sides, and bottom of platform when lifting or lowering platform.
- During operation, keep all body parts inside platform railing.
- Keep non-operating personnel at least 6 ft (1.8 m) away from machine during all operations.
- When moving the machine, the operator must limit travel speed according to conditions of ground surface, congestion, visibility, slope, location of personnel, and other factors.
- Exercise extreme caution at all times to prevent obstacles from striking or interfering with operating controls and persons in the platform.
- Ensure that operators of other overhead and floor level machines are aware of the MEWP's presence. Disconnect power to overhead cranes. Barricade floor area if necessary.
- Do not operate over ground personnel. Warn personnel not to work, stand, or walk under a raised platform. Position barricades on floor as necessary.

1.4 TRANSPORTING

Tipping Hazards

⚠ WARNING

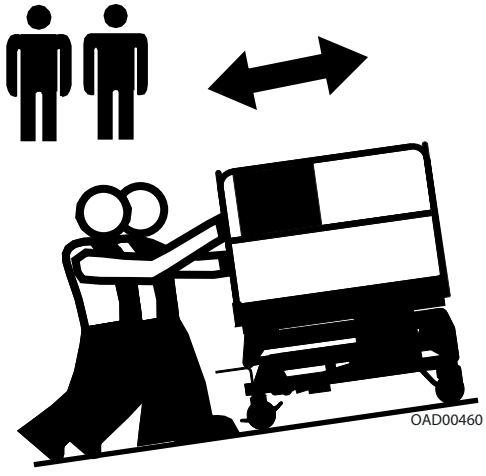
FAILURE TO COMPLY WITH THE FOLLOWING TIPPING HAZARD INSTRUCTIONS COULD CAUSE THE UNIT TO TIP OVER OR BE HARD TO CONTROL WHEN BEING MOVED, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.



- On a smooth, firm surface within the limits of the maximum operating slope, always push machine on a level surface with the locking castor wheels facing the operator.
- Watch for obstructions around machine and overhead.



- Check travel path for personnel, holes, bumps, drop-offs, obstructions, debris, and coverings that may conceal other hazards.
- Before placing machine on floors, trucks and other surfaces, check allowable capacity of surfaces.



- Two persons are required on slopes up to 5°. A forklift must be used when moving units on slopes greater than 5°.
- Always travel up or down a slope with the platform end of the machine positioned towards the low side of the slope. The operator and assistant must walk side by side to guide the machine.



- Never position the unit sideways on a slope.
- Do not elevate the platform or move the machine on a soft surface.
- Use caution and check clearances when moving machine in restricted or close quarters.
- Always use an assistant when moving machine in areas where vision is obstructed.
- Keep non-operating personnel at least 6 ft (1.8 m) away from machine during moving operations.

1.5 MOVING, LIFTING AND REPOSITIONING

General

- Never allow personnel in platform while moving, lifting or repositioning the machine.
- This machine shall not be towed by a vehicle.
- Do not move assembled unit on wheels over soft or uneven surfaces, or over obstructions, bumps, debris, etc.
- Disassemble unit to transport over uneven or sloped ground, or in a vehicle.
- Ensure platform is fully retracted and completely empty of tools prior to disassembly, lifting or hauling.
- Refer to the Machine Operation section of this manual for lifting information.

Additional Safety Information

- Do not use machine as ground for welding.

1.6 MAINTENANCE

This sub-section contains general safety precautions which must be observed during maintenance of this machine. Additional precautions to be observed during machine maintenance are inserted at the appropriate points in this manual and in the Service and Maintenance section of this manual. It is of utmost importance that maintenance personnel pay strict attention to these precautions to avoid possible injury to personnel or damage to the machine or property. A maintenance program must be established by a qualified person and must be followed to ensure that the machine is safe.

Maintenance Hazards

- Shut off power to all controls and ensure that all moving parts are secured from inadvertent motion prior to performing any adjustments or repairs.
- Never work under an elevated platform until it has been fully lowered to the full down position, if possible, or otherwise supported and restrained from movement with appropriate safety props, blocking, or overhead supports.
- DO NOT attempt to repair or tighten any hydraulic hoses or fittings while the machine is powered on or when the hydraulic system is under pressure.

- Always relieve hydraulic pressure from all hydraulic circuits before loosening or removing hydraulic components.
- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks. Wear gloves to help protect hands from spraying fluid.



- Use only replacement parts or components that are approved by JLG. To be considered approved, replacement parts or components must be identical or equivalent to original parts or components.
- Never attempt to move heavy parts without the aid of a mechanical device. Do not allow heavy objects to rest in an unstable position. Ensure adequate support is provided when raising components of the machine.
- Use only approved non-flammable cleaning solvents.
- Do not replace items critical to stability, such as batteries or solid tires, with items of different weight or specification. Do not modify unit in any way to affect stability.
- Reference the Service and Maintenance Manual for the weights of critical stability items.

⚠ WARNING

MODIFICATION OR ALTERATION OF A MEWP SHALL BE MADE ONLY WITH PRIOR WRITTEN PERMISSION FROM THE MANUFACTURER.

Battery Hazards

- Always disconnect batteries when servicing electrical components or when performing welding on the machine.
- Do not allow smoking, open flame, or sparks near battery during charging or servicing.
- Do not contact tools or other metal objects across the battery terminals.
- Always wear hand, eye, and face protection when servicing batteries. Ensure that battery acid does not come in contact with skin or clothing.

⚠ CAUTION

BATTERY FLUID IS HIGHLY CORROSIVE. AVOID CONTACT WITH SKIN AND CLOTHING AT ALL TIMES. IMMEDIATELY RINSE ANY CONTACTED AREA WITH CLEAN WATER AND SEEK MEDICAL ATTENTION.

- Charge batteries only in a well-ventilated area.
- Avoid overfilling the battery fluid level. Add distilled water to batteries only after the batteries are fully charged.



NOTES:

SECTION 2. PREPARATION AND INSPECTION

2.1 PERSONNEL TRAINING

The Mobile Elevating Work Platform (MEWP) is a personnel handling device, so it is necessary that it be operated and maintained only by trained personnel.

Operator Training

Operator training must cover:

1. Reading and understanding the Operation and Safety Manual.
2. Thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground, and emergency descent controls.
3. Control labels, instructions, and warnings on the machine.
4. Applicable regulations, standards, and safety rules.
5. Use of approved fall protection equipment.
6. Enough knowledge of the mechanical operation of the machine to recognize a malfunction or potential malfunction.
7. The safest means to operate the machine where overhead obstructions, other moving equipment, and obstacles, depressions, holes, and drop-offs exist.
8. Means to avoid the hazards of unprotected electrical conductors.
9. Selection of the appropriate MEWPs and available options for the work to be performed considering specific job requirements, with involvement from the MEWP owner, user, and/or supervisor.
10. The responsibility of the operator to ensure all platform occupants have a basic level of knowledge to work safely on the MEWP, and to inform them of applicable regulations, standards, and safety rules.
11. The requirement for familiarization in addition to training.

Training Supervision

Training must be done under the supervision of a qualified person in an open area free of obstructions until the trainee has developed the ability to safely control and operate the machine.

Operator Responsibility

The operator must be instructed that they have the responsibility and authority to shut down the machine in case of a malfunction or other unsafe condition of either the machine or the job site.

Machine Familiarization

NOTE: *Responsibilities for familiarization may vary by region.*

Only properly trained personnel who have received unit-specific familiarization shall operate a MEWP. The user shall determine if personnel are qualified to operate the MEWP prior to operation. The user shall ensure that after familiarization, the operator operates the MEWP for a sufficient period of time to achieve proficiency. When authorized by the user, self-familiarization can be achieved, if authorized, by a properly trained operator reading, understanding and following the manufacturer's operator's manual.

Prior to users authorization of an operator to use a specific model of MEWP, the user shall ensure the operator is familiarized on the following:

1. Location of the manual storage compartment and the requirement to ensure the required manual(s) are present on the MEWP;
2. Purpose and function of the machine controls and indicators at the platform and ground control stations;
3. Purpose, location, and function of the emergency controls;
4. Operating characteristics and limitations;
5. Features and devices;
6. Accessories and optional equipment.

2.2 PREPARATION, INSPECTION, AND MAINTENANCE

The Inspection and Maintenance Table covers the machine inspections and maintenance recommended by JLG Industries, Inc. Consult local regulations for further requirements for aerial work platforms. The frequency of inspections and maintenance must be increased as necessary when the machine is used in a harsh or hostile environment, if the machine is used with increased frequency, or if the machine is used in a severe manner.

Inspection and Maintenance Table

TYPE	FREQUENCY	PRIMARY RESPONSIBILITY	SERVICE QUALIFICATION	REFERENCE
Pre-Start Inspection	Before using each day; or whenever there's an Operator change.	User or Operator	User or Operator	Operation and Safety Manual
Pre-Delivery Inspection *(See Note Below)*	Before each sale, lease, or rental delivery.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form
Frequent Inspection	In service for 3 months or 150 hours, whichever comes first; or Out of service for a period of more than 3 months; or Purchased used.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form
Annual Machine Inspection	Annually, no later than 13 months from date of prior inspection.	Owner, Dealer, or User	Factory-Trained Service Technician (Recommended)	Service and Maintenance Manual and applicable JLG inspection form
Preventative Maintenance	At intervals as specified in the Service and Maintenance Manual.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual

NOTE: *Inspection forms are available from JLG. Use the Service and Maintenance Manual to perform inspections.*

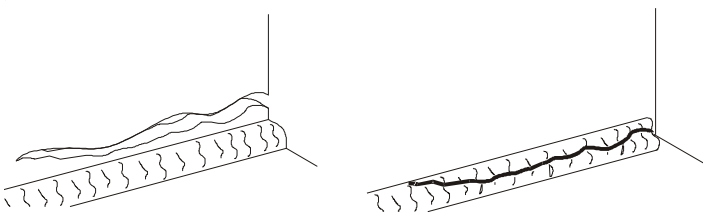
NOTICE

JLG INDUSTRIES, INC. RECOGNIZES A FACTORY-TRAINED SERVICE TECHNICIAN AS A PERSON WHO HAS SUCCESSFULLY COMPLETED THE JLG SERVICE TRAINING SCHOOL FOR THE SPECIFIC JLG PRODUCT MODEL.

2.3 PRE-START INSPECTION

The Pre-Start Inspection should include each of the following:

1. **Cleanliness** – Check all surfaces for leakage (oil, fuel, or battery fluid) or foreign objects. Report any leakage to proper maintenance personnel.
2. **Structure –** Inspect the machine structure for dents, damage, weld or parent metal cracks or other discrepancies. Report this to the proper maintenance personnel.



Parent Metal Crack

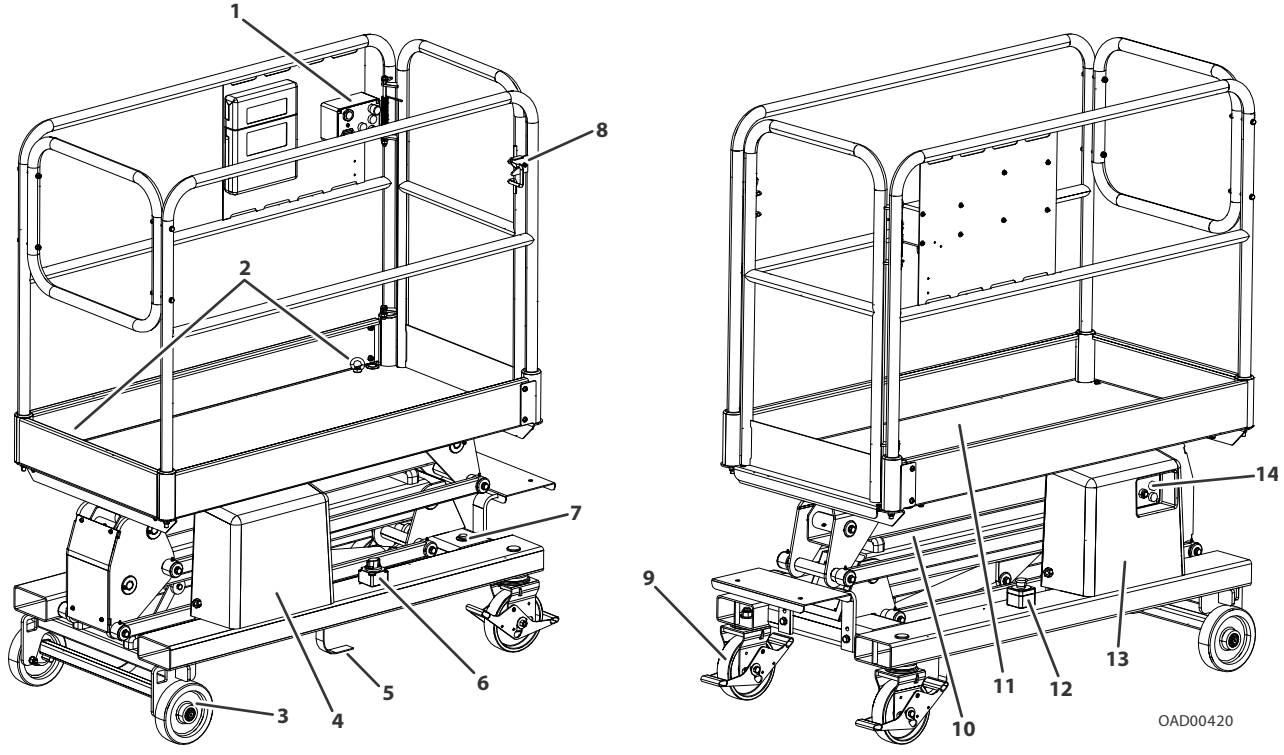
Weld Crack

3. **Decals and Placards** – Check all for cleanliness and legibility. Make sure none of the decals and placards are missing. Make sure all illegible decals and placards are cleaned or replaced.
4. **Operation and Safety Manual** – Make sure a copy of the Operation and Safety Manual, AEM Safety Manual, and ANSI Manual of Responsibilities is enclosed in the weather resistant manual storage container.
5. **Walk-Around Inspection** – Refer to Section 2.4.
6. **Battery** - Charge is required.
7. **Hydraulic Oil** - Check the hydraulic oil level. Ensure hydraulic oil is added as required.
8. **Function Check** - Once the Walk-Around Inspection is complete, perform a function check of all systems in an area free of overhead and ground level obstructions. Refer to Section 2.5 for more specific instructions.
9. **Platform Gate –** Keep gate and surrounding area clean and unobstructed. Verify the gate closes properly and is not bent or damaged. Keep gate closed at all times except when entering/exiting the platform and loading/unloading materials.
10. **Lanyard Attach Points –** JLG Industries, Inc. recommends personnel in the platform wear a fall/travel restraint system with a lanyard attached to an authorized lanyard attach point.

⚠ WARNING

IF THE MACHINE DOES NOT OPERATE PROPERLY, TURN OFF THE MACHINE IMMEDIATELY! REPORT THE PROBLEM TO THE PROPER MAINTENANCE PERSONNEL. DO NOT OPERATE THE MACHINE UNTIL IT IS DECLARED SAFE FOR OPERATION.

2.4 WALK-AROUND INSPECTION



Begin the Walk-Around Inspection at item 1. Continue around machine and check each item on this list.

NOTICE

DO NOT OVERLOOK VISUAL INSPECTION OF CHASSIS UNDERSIDE. CHECKING THIS AREA MAY RESULT IN DISCOVERY OF CONDITIONS WHICH COULD CAUSE EXTENSIVE MACHINE DAMAGE.

INSPECTION NOTE: *On each item, make sure there are no loose or missing parts, they are securely fastened, no visible damage exists in addition to any other criteria mentioned.*

1. **Platform Control Panel -** See Inspection Note.
2. **Lanyard Attach Points -** Ensure lanyard attach points are undamaged and secured to platform floor.
3. **Rear Wheels (Auto-Locking Brakes) -** Check for debris stuck to or around wheels. See Inspection Note.
4. **Battery -** Appropriate electrolyte level (if non-sealed battery); no battery terminal corrosion; tight connections.
5. **Static Strap -** See Inspection Note.
6. **Battery Isolator -** See Inspection Note.
7. **Bubble Level Indicator -** Ensure bubble level indicator is clean, secure, and responsive to movement.
8. **Gate/Gate Latch -** Entry gate swings freely when opened; closes and latches properly when closed.
9. **Swivel Castor Wheels -** Properly secured to chassis; wheels and castors turn freely. Brakes lock and release, preventing wheels from rolling when locked.
10. **Arm Stack Assembly -** See Inspection Note.
11. **Platform -** See Inspection Note.
12. **Emergency Stop Button (on chassis and platform control panel) -** Push in to switch off, rotate and pull out to switch on.
13. **Hydraulic System, Emergency Lowering Valve, Battery Charger (under cover):**
    a. **Hydraulic System -** Check hydraulic oil level in reservoir; check hydraulic lines for oil leaks; ensure hydraulic connections are tight and undamaged (refer to Section 5.4 for more information).
    b. **Emergency Lowering Valve -** Ensure the emergency lowering valve is closed before machine operation.
    c. **Battery Charger -** See Inspection Note.
14. **Ground Control Panel -** See Inspection Note.

2.5 FUNCTION CHECK

Perform a function check of all systems in an area free of overhead and ground level obstructions.

1. Set up machine for operation according to instructions in Positioning and Leveling Machine.
2. Power up machine. Ensure the emergency stop button at the ground controls shuts off power when pressed.
3. From the ground controls, raise and lower platform 2 ft to 3 ft (0.61 m to 0.92 m) several times. Check for smooth elevation and lowering of platform.
4. Ensure the castor wheels lock when set and stop all machine movement.
5. Enter the platform. Ensure the platform entry gate closes and latches.
6. Operate the machine from the platform controls:
   a. Ensure all platform movement stops immediately when the enable, up, or down buttons are released.
   b. Ensure the emergency stop switch stops all platform movement when pressed.
7. With the aid of an assistant, check the operation of the rear wheel auto-locking brake mechanism:
   a. Elevate the platform so it is clear of the chassis.
   b. As the platform elevates, observe the action of the rear wheel brake. Ensure the wheels fully engage the locking tab weldments above the rear wheels when the platform is elevated and release when the platform is fully lowered.
8. Verify proper operation of the Emergency Lowering Valve (refer to Section 3.6 for more information on operation).



NOTES:

SECTION 3. MACHINE OPERATION

3.1 GENERAL

NOTICE

THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION. THE USER AND OPERATOR ARE RESPONSIBLE FOR CONFORMING WITH GOOD SAFETY PRACTICES.

This section provides the necessary information needed to understand control function and operation.

⚠ WARNING

DO NOT RAISE PLATFORM UNLESS THE MACHINE IS ON A SMOOTH, FIRM SURFACE, WITHIN THE LIMITS OF THE MAXIMUM OPERATING SLOPE, FREE OF OBSTRUCTIONS AND HOLES.

TO AVOID SERIOUS INJURY, DO NOT OPERATE MACHINE IF ANY CONTROL LEVERS OR TOGGLE SWITCHES CONTROLLING PLATFORM MOVEMENT DO NOT RETURN TO THE OFF OR NEUTRAL POSITION WHEN RELEASED.

IF THE PLATFORM DOES NOT STOP WHEN A CONTROL SWITCH OR LEVER IS RELEASED, USE THE EMERGENCY STOP SWITCH TO STOP THE MACHINE.

3.2 MACHINE DESCRIPTION

The machine is manually propelled machine with a work platform mounted to an elevating armstack assembly. This machine's intended purpose is to provide personnel (with their tools & supplies) access to areas above ground level.

The platform is raised and lowered by a control station in the platform or on the chassis. These control a hydraulic system which extends a hydraulic cylinder within the armstack assembly.

An emergency lowering valve is provided underneath the ground control console cover at the base of the machine to lower the platform to the ground in an emergency if the operator in the platform is unable to do so.

NOTICE

THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION. THE USER AND OPERATOR ARE RESPONSIBLE FOR CONFORMING WITH GOOD SAFETY PRACTICES.

3.3 OPERATING CHARACTERISTICS AND LIMITATIONS

Placards

Important points to remember during operation are provided at the control stations by DANGER, WARNING, CAUTION, NOTICE, and INSTRUCTION placards. This information is placed at various locations for the express purpose of alerting personnel of potential hazards constituted by the operating characteristics and limitations of the machine. Refer to the Foreword for definitions of placard safety signal words.

Capacities

Raising platform above horizontal with or without any load in platform is based on the following criteria:

1. Machine is positioned on a smooth, firm surface within the limits of the maximum operating slope.
2. Load is within manufacturer's rated capacity.
3. All machine systems are functioning properly.

Stability

This machine, as originally manufactured by JLG and operated within its rated capacity on a smooth, firm surface, within the limits of the maximum operating slope, provides a stable aerial platform for all platform positions.

3.4 PLATFORM LOADING

The platform maximum rated load capacity is shown on a placard located on the platform billboard and is based upon the machine positioned on a smooth, firm surface, within the limits of the maximum operating slope. Refer to Section 5.1 for the maximum platform capacity.

The platform is entered through an entry gate at the rear of the platform. Keep entry gate closed at all times except when entering/exiting the platform and loading/unloading materials.

NOTE: *It is important to remember that the load should be evenly distributed on the platform. The load should be placed near the center of the platform when possible.*

3.5 MACHINE OPERATION

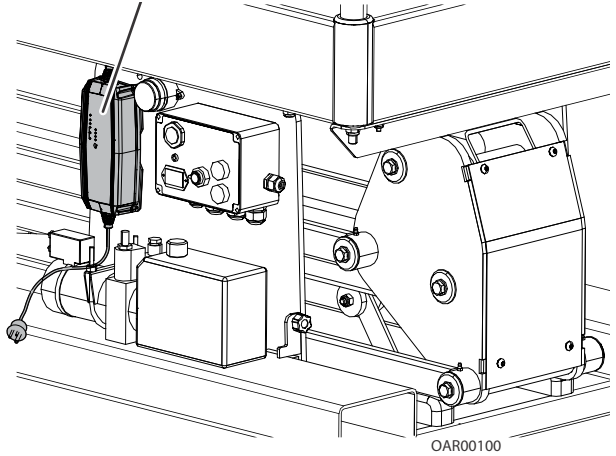
These conditions must be met before elevating the platform:

- Pre-Start Inspection, Walk-Around Inspection, and Function Check must be completed.
- Machine base must be level and set up properly for operation.
- Platform swing-in entry gate must be closed and latched once the operator is in the platform.
- Emergency Lowering Valve must be closed.
- Batteries must contain enough voltage to operate the machine for the intended tasks. Check the battery charge indicator at the platform controls. If the indicator displays red, battery voltage is low and should be charged before operating machine.

NOTICE

JLG RECOMMENDS THAT THE OPERATOR UTILIZES A FALL RESTRAINT SYSTEM IN THE PLATFORM WITH A LANYARD ATTACHED TO THE AUTHORIZED LANYARD ANCHORAGE POINT IN THE PLATFORM.

Battery Charger

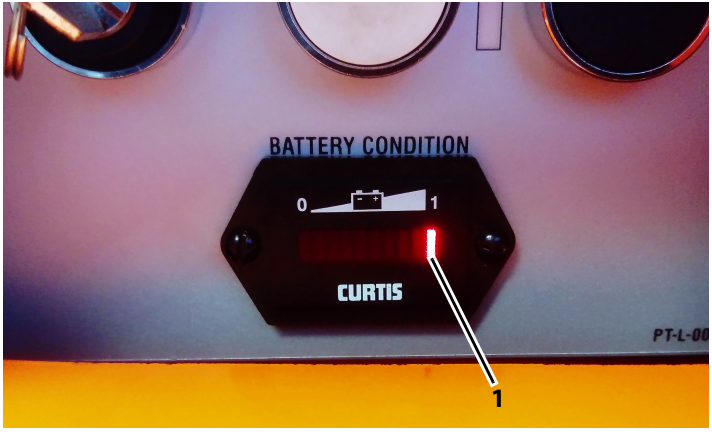


The battery charger is located under the ground control console cover. Plug the AC input cable into a compatible AC power supply. The battery charger can be connected to an AC power supply at any time or left for extended periods.

NOTE: *Ensure the battery isolator is on when charging the machine.*

Refer to Section 5 for charger specifications and battery maintenance for operators.

At the ground control box, the battery charge indicator displays a series of red LEDs. One LED illuminates at a time to indicate battery charge.



Battery charge level is also indicated by LEDs on the battery charger. Plug in the charger to an available power supply. The LEDs will illuminate in sequence. When the top LED is illuminated, charging is complete.

To ensure proper operation of the battery charger, verify the bottom LED illuminates when it is plugged in. A flashing LED indicates a fault. If this occurs, disconnect the charger and reconnect to the power supply. If flashing continues, seek technical support.

NOTICE

AC POWER SUPPLY CIRCUIT SHOULD BE PROTECTED WITH A BREAKER CIRCUIT. ONLY CHARGE BATTERY IN A WELL-VENTILATED AREA.

Positioning and Leveling Machine



Level NOT - Level

1. Position machine under work area on a firm, level, and uniform supporting surface.
2. Ensure ALL four wheels are in contact with the supporting surface. Lock the front castor wheels to prevent the machine from rolling.
3. Ensure the bubble level indicator is centered and machine is level.

Entering/Exiting the Platform

⚠ WARNING

DO NOT EXCEED MAXIMUM PLATFORM CAPACITY. MAXIMUM CAPACITY INCLUDES PERSONNEL IN PLATFORM PLUS WEIGHT IN TOOL TRAY OR ANY OTHER WEIGHT PLACED IN PLATFORM.

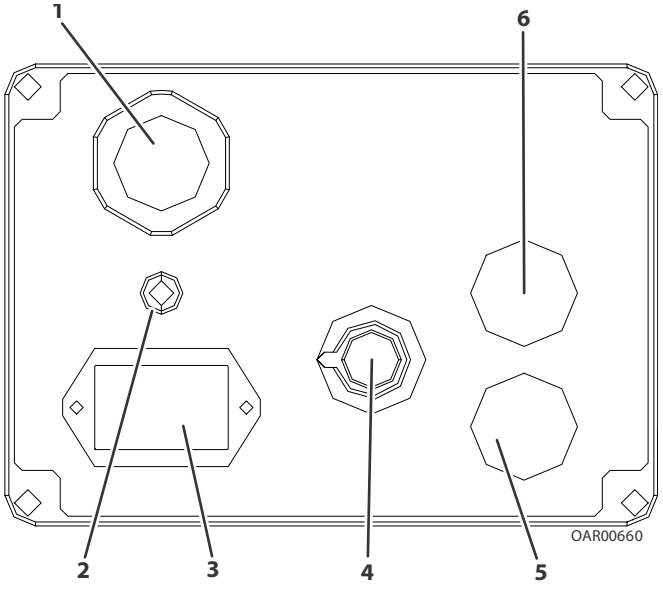
1. Always maintain “three point contact” with the machine by using two hands and one foot or two feet and one hand at all times during entry and exit.
2. Close and latch entry gate after entering.
3. Attach lanyard to one of the lanyard attachments on the platform floor below the platform control panel or next to the entry gate.
4. When the operator is in the platform with entry gate fully closed and lanyard attached, the machine is ready for operation.

⚠ WARNING

BEFORE OPERATING PLATFORM,CHECK AROUND AND OVERHEAD FOR ANY OBSTACLES OR PERSONNEL THAT MAY COME INTO CONTACT WITH MACHINE WHILE ELEVATING OR LOWERING PLATFORM. IF NECESSARY, EXIT MACHINE AND REPOSITION BEFORE PROCEEDING.

5. Before exiting the platform, ensure platform is fully lowered.

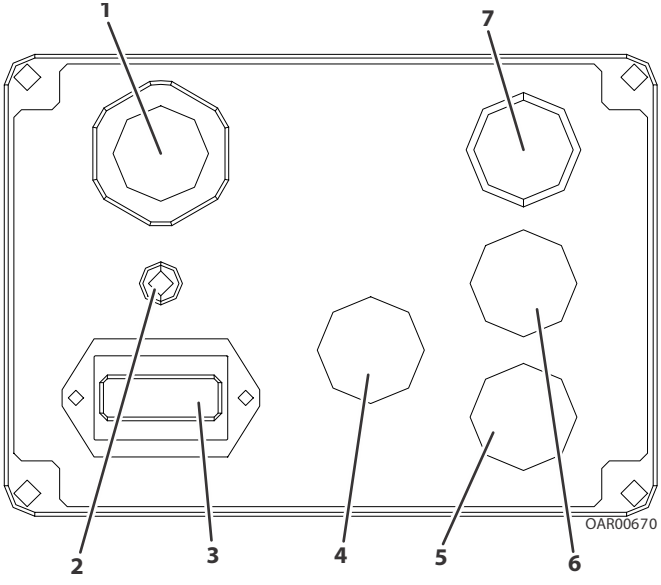
Ground Control Panel



1. Horn/Alarm
2. Overload Indicator
3. Battery Indicator
4. Ground/Off/Platform Key Selector Switch
5. Lift Down Button
6. Lift Up Button

1. **Overload Alarm -** The alarm will sound if platform overload is detected.
2. **Overload Indicator -** The indicator will flash if platform overload is detected.
3. **Battery Indicator -** The indicator displays the current charge status of the battery.
4. **Ground/Off/Platform Key Selector Switch -** When the switch is positioned to ground, power is supplied to the ground control box. When the switch is positioned to platform, power is supplied to the platform control box.
5. **Lift Down Button -** Press and hold to lower the platform.
6. **Lift Up Button -** Press and hold to raise the platform.

Platform Control Panel



1. Horn/Alarm
2. Overload Indicator
3. Hourmeter
4. Enable Switch
5. Lift Down Switch
6. Lift Up Switch
7. Emergency Stop Switch

1. **Overload Alarm -** The alarm will sound if platform overload is detected.
2. **Overload Indicator -** The indicator will flash if platform overload is detected.
3. **Hourmeter -** Displays the number of hours the machine has been operated.
4. **Enable Switch -** Press and hold the enable switch in conjunction with Lift Up or Lift down switches to enable those functions.

NOTE: *To operate any function, the enable switch must be pressed and the function selected within five seconds. If a function is not selected within five seconds, the enable switch must be pressed again.*

5. **Lift Down Switch -** Press and hold to lower the platform.
6. **Lift Up Switch -** Press and hold to raise the platform.
7. **Emergency Stop Switch -** In case of uncontrolled platform elevation or descent, press the switch to stop platform movement. Twist clockwise to reset.

⚠ WARNING

CRUSHING HAZARD - BE AWARE OF DESCENDING PLATFORM WHEN LOWERING THE PLATFORM. KEEP HANDS OR FEET OFF THE ARM ASSEMBLY AND FROM UNDER THE PLATFORM.

3.6 EMERGENCY LOWERING VALVE

⚠ WARNING

DO NOT CLIMB OUT OF THE PLATFORM WHILE ELEVATED. THIS MAY AFFECT THE MACHINE'S BALANCE AND CAUSE IT TO TIP OVER. ONLY EXIT THE PLATFORM THROUGH THE PLATFORM GATES. DO NOT ATTEMPT TO CLIMB DOWN ARM ASSEMBLY.

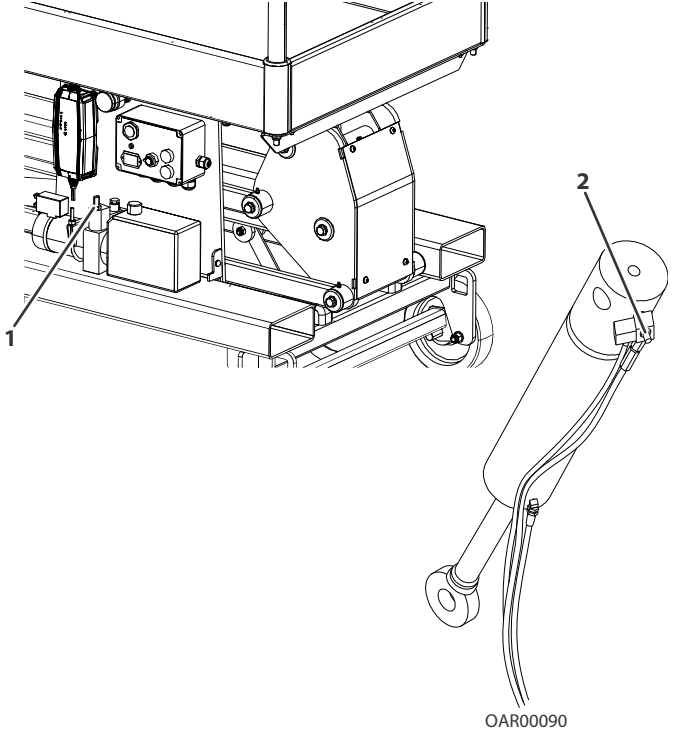
In case of platform control failure or operator incapacity, use the emergency lowering valve. Before engaging, ensure the area beneath the platform is free from obstructions. Stay clear of descending structure and do not force the valve knob.

1. Remove ground control panel frame cover.
2. Locate the red Emergency Lowering Valve (**1**). Pull and twist counterclockwise, then release to open the valve.
3. Locate the red knob on the cylinder (**2**). Press and hold, then release when desired height is achieved.

⚠ WARNING

REMAIN CLEAR OF DESCENDING ARM ASSEMBLY WHEN EMERGENCY LOWERING VALVE IS ACTIVE. DO NOT PLACE HAND BETWEEN TIE BAR AND DESCENDING BOOM WHILE PRESSING RED KNOB (2) ON LIFT CYLINDER.

4. Twist the Emergency Lowering Valve (**1**) counterclockwise to close the valve.
5. Return the frame cover to its proper location.



3.7 TRANSPORTATION, LIFTING, AND TIE-DOWN PROCEDURES

Loading or Towing

If loading machine up a ramp to the trailer with the aid of a winch, connect the winch cable to the castor/gate end of the chassis using the location holes provided. First run a strap around the front tow/tie down pins mounted inside the fork lift pockets, and then connect the winch cable to the strap.

When towing ensure the castor wheel locks are unlocked, and that the platform is fully lowered in the transport position.

Before disconnecting the machine from the winch cable, engage the castor wheel locks to keep the machine from rolling.

Vehicle Transport

Always transport the machine in the upright position. Do not lay the machine flat. Ensure the transport vehicle is parked on a level surface.

The machine can be loaded via a forklift, tail-lift, or winch. Never push the machine up a slope greater than 5° without the aid of a winch or forklift. When using a forklift, lock the front castor wheels to keep the machine from rolling. Ensure forklift tines are fully inserted into the chassis sockets.

If tying down the machine using straps or chains, the platform must be fully lowered to the stowed position with the machine securely tied down to the truck or trailer deck.

NOTICE

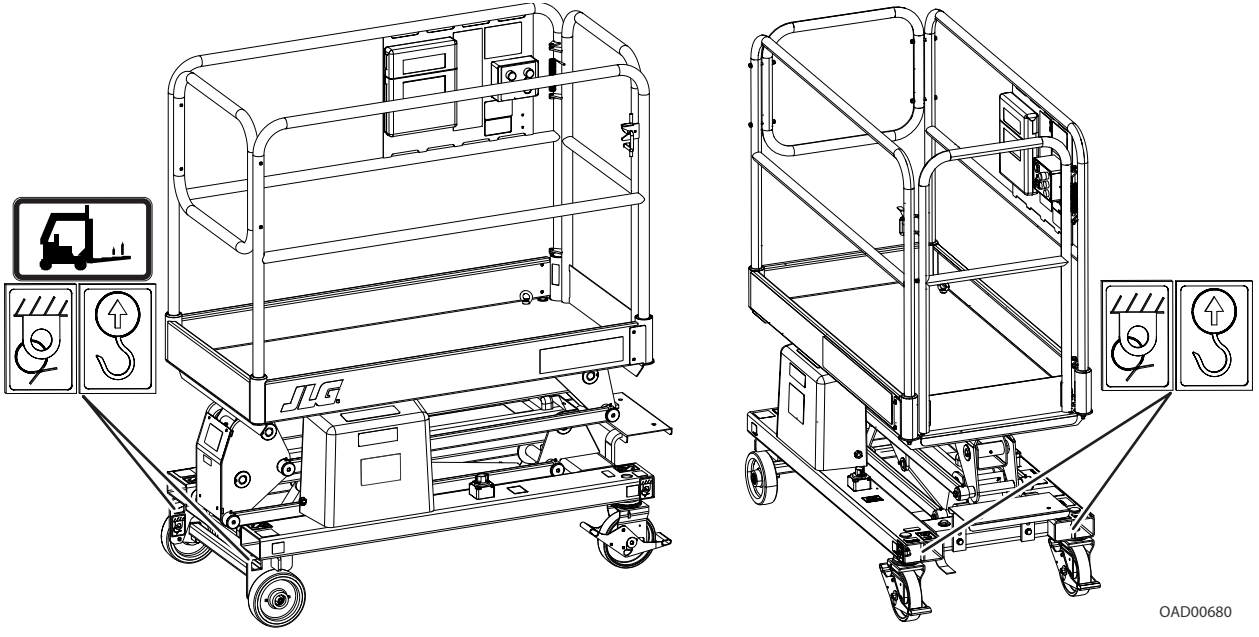
NEVER PLACE THE STRAP THROUGH THE PLATFORM OR HANDRAILS. THIS COULD RESULT IN MACHINE DAMAGE. DO NOT USE EXCESSIVE FORCE WHEN TIGHTENING STRAPS.

Storage

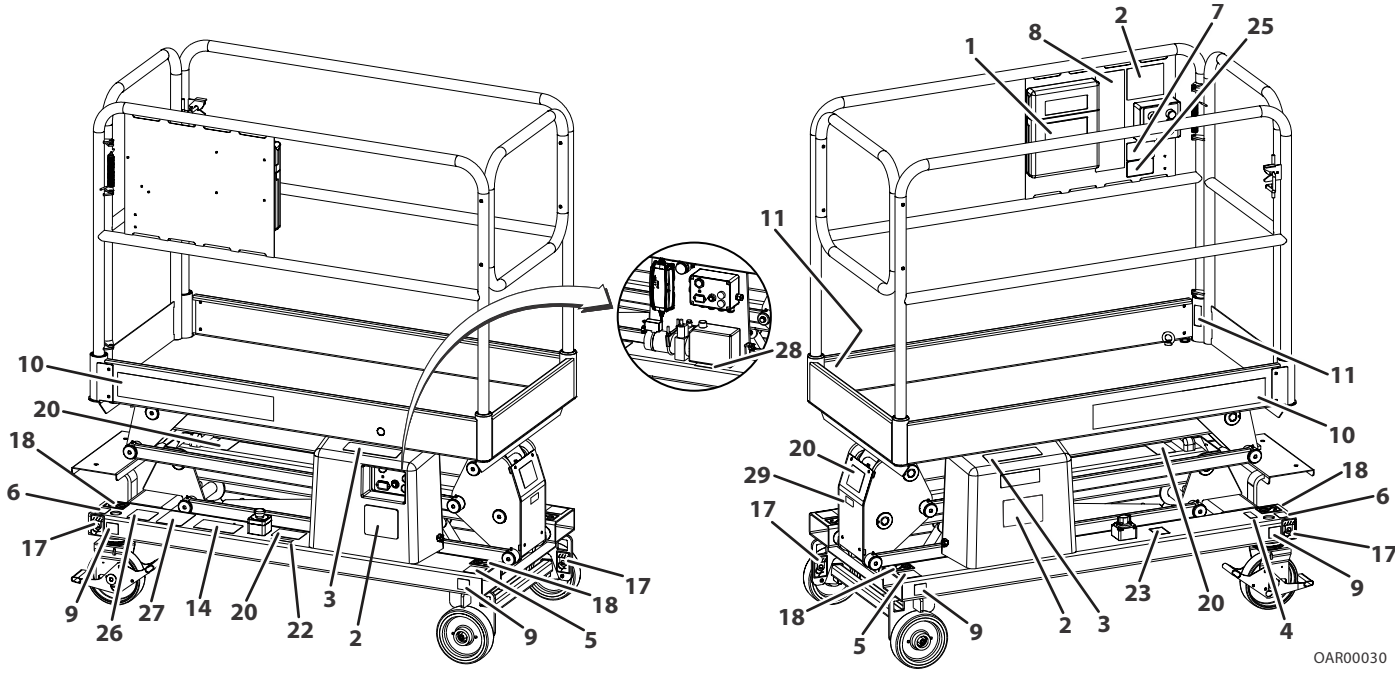
If the machine is to be taken out of operation for a period longer than one month, the following precautions should be taken:

- Turn on the battery charger. The charger has a programmed maintenance mode and will maintain the battery in good condition indefinitely. However, it is important to check the electrolyte level periodically. If this is not practical, then the charger should be switched on once a week for 30 minutes. This is especially important in cold conditions.
- All pivots must be greased with anti-seize grease on a monthly basis. Refer to Section 5.4 for information on greasing pivots.
- It is recommended to replace the hydraulic oil after three months of non-use. Refer to Section 5.4 for information on changing the hydraulic oil.
- If the storage period is for an undetermined period, remove the battery and store it in a secure battery storage container. Cover all electrical and hydraulic connections to prevent corrosion.

Transportation Diagram



3.8 MACHINE DECALS



Item	ANSI - English (1001243752-C)	CSA - French (1001244679-A)	ANSI - Spanish (1001244680-A)	ANSI - Portuguese (1001244681-A)
1	1701509	1701509	1701509	1701509
2	1703781	1704795	1704029	1704021
3	1703786	1704039	1704032	1704024
4	1703789	1704041	1704034	1704026
5	1703817	1703817	1703817	1703817
6	1001213208	1001213208	1001213208	1001213208
7	1001244495	1001244495	1001244495	1001244495
8	1001244496	1001245180	1001245182	1001245184
9	1001243758	1001243758	1001243758	1001243758
10	1001264467	1001264467	1001264467	1001264467
11	1001213582	1001215009	1001241792	1001241802
12	-	-	-	-
13	-	-	-	-
14	1001244497	1001244497	1001244497	1001244497
15	-	-	-	-
16	1703813	1001215217	1001241797	1001241806
17	1702300	1702300	1702300	1702300
18	1701500	1701500	1701500	1701500

Item	ANSI - English (1001243752-C)	CSA - French (1001244679-A)	ANSI - Spanish (1001244680-A)	ANSI - Portuguese (1001244681-A)
19	-	-	-	-
20	1702391	1001215113	1001241795	1001241805
21	-	-	-	-
22	3251243	3251243	3251243	3251243
23	1706740	1706740	1706740	1706740
24	-	-	-	-
25	1001231801	-	-	-
26	1001223055	1001245181	1001245183	1001248185
27	-	-	-	-
28	1001246777	1001246777	1001246777	1001246777
29	1001194837	1001194837	1001194837	1001194837

SECTION 4. EMERGENCY PROCEDURES

4.1 GENERAL INFORMATION

This section explains the steps to be taken in case of an emergency situation while operating the machine.

4.2 EMERGENCY OPERATION

Operator Unable to Control Machine

IF THE PLATFORM OPERATOR IS PINNED, TRAPPED, OR UNABLE TO OPERATE OR CONTROL THE MACHINE, USE THE FOLLOWING INSTRUCTIONS AS A GUIDELINE.

1. Other personnel should operate the machine from ground controls only as required.
2. Only qualified personnel in the platform may use the platform controls. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION PROPERLY.

Cranes, forklift trucks, or other equipment can be used to remove the platform occupant and stabilize motion of the machine.

Platform Caught Overhead

If the platform becomes jammed or snagged in overhead structures or equipment, do the following:

1. Shut off the machine.
2. Rescue all people in the platform before freeing the machine. Personnel must be out of the platform before operating any controls on the machine.
3. Use cranes, forklifts or other equipment to stabilize motion of the machine to prevent a tip over as required.
4. From the ground controls, carefully free the platform from the object.
5. Once clear, restart the machine and return the platform to a safe position.
6. Inspect the machine for damage. If the machine is damaged or does not operate properly, turn off the machine immediately. Report the problem to the proper maintenance personnel. Do not operate the machine until it is declared safe for operation.

Righting of Tipped Machine

Before righting a tipped machine, check machine for any damage that may prevent it from sitting properly on its base wheels once in a vertical position, (i.e., base wheels damaged, base frame distorted, etc.). Use a crane, forklift or other suitable lifting equipment and carefully lift the machine to an upright position.

4.3 INCIDENT NOTIFICATION

JLG Industries, Inc. must be notified immediately of any incident involving a JLG product. Even if no injury or property damage is evident, JLG must be contacted by telephone and provided with all necessary details.

- USA: 877-JLG-SAFE (554-7233)
- EUROPE: (32) 0 89 84 82 20
- AUSTRALIA: (61) 2 65 811111
- E-mail: productsafety@jlg.com

Failure to notify the manufacturer of an incident involving a JLG Industries product within 48 hours of such an occurrence may void any warranty consideration on that particular machine.

NOTICE

FOLLOWING ANY INCIDENT, THOROUGHLY INSPECT THE MACHINE. DO NOT ELEVATE PLATFORM UNTIL YOU ARE SURE THAT ALL DAMAGE HAS BEEN REPAIRED, AND THAT ALL CONTROLS ARE OPERATING CORRECTLY. TEST ALL FUNCTIONS FIRST FROM THE GROUND CONTROL STATION, THEN FROM THE PLATFORM CONTROL CONSOLE.

4.4 EMERGENCY LOWERING VALVE

⚠ WARNING

DO NOT CLIMB OUT OF THE PLATFORM WHILE ELEVATED. THIS MAY AFFECT THE MACHINE'S BALANCE AND CAUSE IT TO TIP OVER. ONLY EXIT THE PLATFORM VIA THE PLATFORM GATES. DO NOT ATTEMPT TO CLIMB DOWN ARM ASSEMBLY.

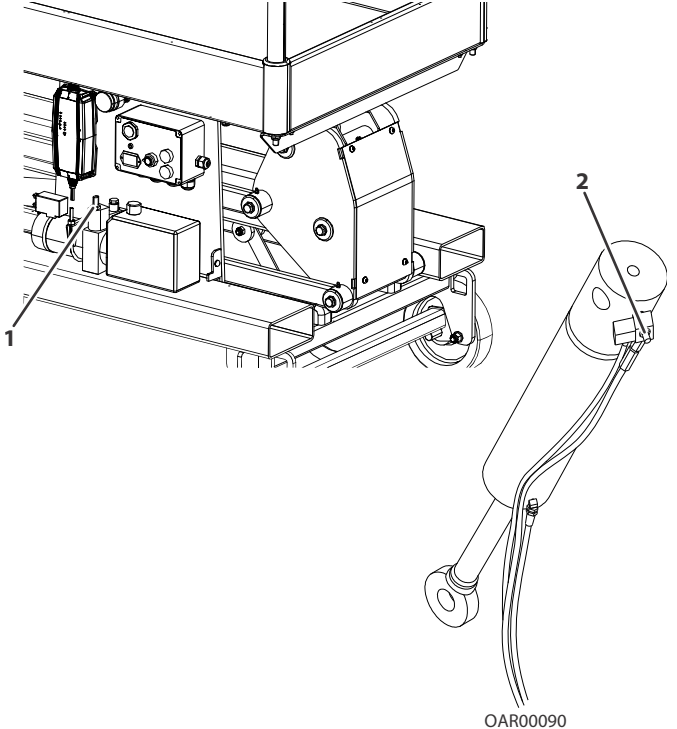
In case of platform control failure or operator incapacity, use the emergency lowering valve. Before engaging, ensure the area beneath the platform is free from obstructions. Stay clear of descending structure and do not force the valve knob.

1. Remove ground control panel frame cover.
2. Locate the red Emergency Lowering Valve (**1**). Pull and twist counterclockwise, then release to open the valve.
3. Locate the red knob on the cylinder (**2**). Press and hold, then release when desired height is achieved.

⚠ WARNING

REMAIN CLEAR OF DESCENDING ARM STACK WHEN EMERGENCY LOWERING VALVE IS ACTIVE. DO NOT PLACE HAND BETWEEN TIE BAR AND DESCENDING BOOM WHILE PRESSING RED KNOB (2) ON LIFT CYLINDER.

4. Twist the Emergency Lowering Valve (**1**) counterclockwise to close the valve.
5. Return the frame cover to its proper location.





NOTES:

SECTION 5. SPECIFICATIONS & OPERATOR MAINTENANCE

5.1 INTRODUCTION

This section of the manual provides additional necessary information to the operator for proper operation and maintenance of this machine.

The maintenance portion of this section is intended as information to assist the operator to perform daily maintenance tasks only. It does not replace the more thorough Preventive Maintenance and Inspection Schedule included in the Service and Maintenance Manual.

Other Publications Available Specific to this Machine

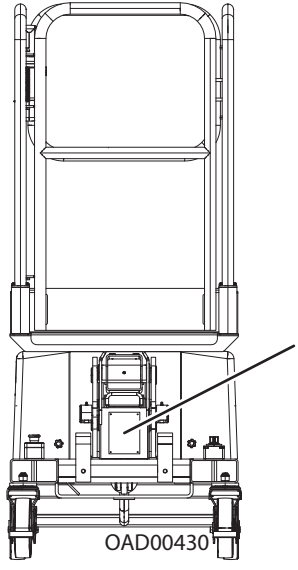
Illustrated Parts Manual

- 31215864

Service and Maintenance Manual

- 31215863

5.2 SERIAL NUMBER PLATE



NOTE: *Some components have been removed for clarity.*

5.3 MACHINE SPECIFICATIONS

General

WORKING SPECIFICATIONS	
Maximum Working Height	16.73 ft (5.10 m)
Maximum Platform Height	10.17 ft (3.10 m)
Weight	775 lb (352 kg)
Platform	4.99 ft x 2.46 ft (1.52 m x 0.75 m)
Working Footprint	5.31 ft x 2.56 ft (1.62 m x 0.78 m)
Maximum Platform Capacity	551 lb (250 kg) (1 person + tools combined)
Maximum Manual Side Force	45 lb (200 N)
Maximum Gradient for Operation	0.5°
Maximum Wind Force	Indoor use only
Maximum Ground Bearing Pressure	489 psi (34.38 kg/cm^2)
Maximum Wheel Load	430 lb (195 kg)

DIMENSIONS	
Length	5.31 ft (1.62m)
Width	2.56 ft (0.78 m)
Height	6.07 ft (1.85 m)

Power Source

- **Battery:** Standard 12V DC
- **Hydraulic Pump:** 1.66cc/rev
- **Electric Motor:** Standard 12V DC

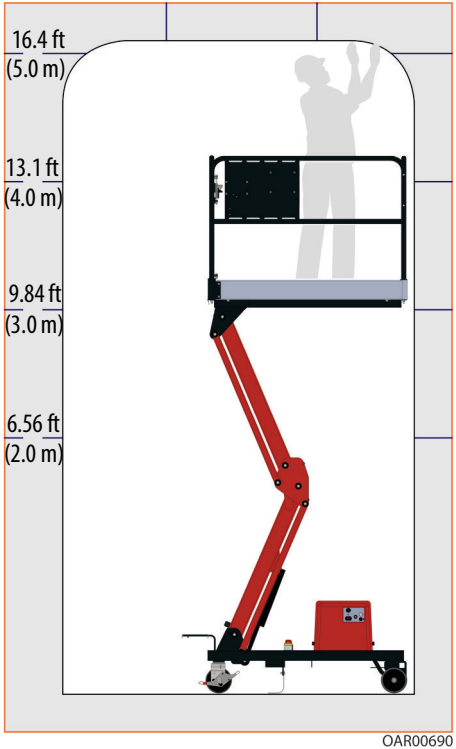
Battery Charger

- **AC Input Voltage:** 90 - 135V AC
- **Frequency:** 45 - 65 Hz
- **Output:** 12V DC, 7A

Hydraulic Oil

- Grade 32 Mineral Oil

Working Envelope

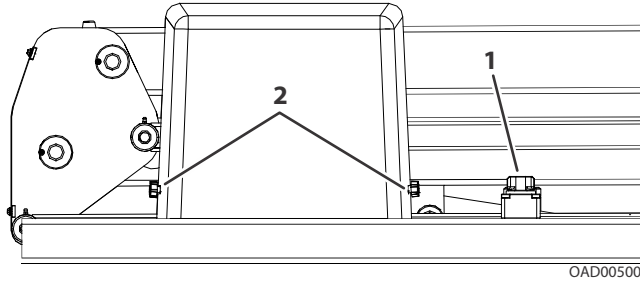


5.4 OPERATOR MAINTENANCE

Accessing Base Frame Components

⚠ CAUTION

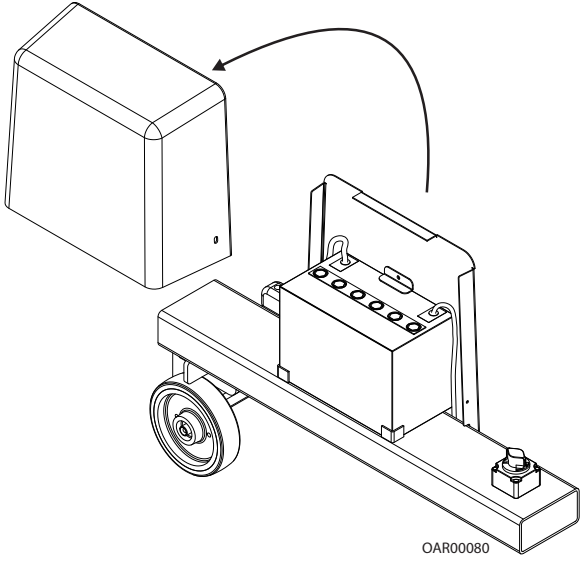
BEFORE REMOVING BASE FRAME COVERS FOR MAINTENANCE PURPOSES, SWITCH OFF BATTERY ISOLATOR BESIDE THE BATTERY COMPARTMENT. USE APPROPRIATE SAFETY/ PERSONAL PROTECTIVE EQUIPMENT WHEN NECESSARY.



1. Battery Isolator **2.** Frame Cover Knobs

1. Turn the battery isolator (**1**) to the off position.
2. At the bottom on either side of the base frame cover, loosen and remove the knobs. Remove the cover.
3. Once maintenance has been complete, return the cover to its proper location and secure the knobs.

Battery



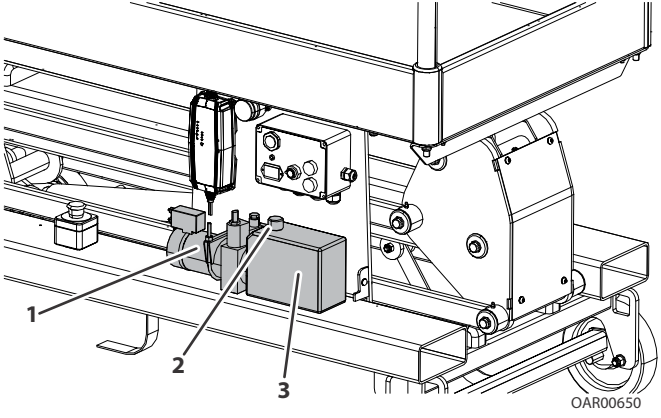
The battery is located under the base frame cover next to the battery isolator switch. It should be checked daily for secure connections and any damage or corrosion.

When checking the electrolyte level in each battery cell, ensure the plates are covered by one to two millimeters of liquid. Hydrometer readings for each cell should register between 1.28 and 1.285 specific gravity. Voltmeter readings should be approximately 13V.

Battery Charger

Plug in the charger to an available power supply. The LEDs will illuminate in sequence. When the top LED is illuminated, charging is complete. To ensure the proper operation of the battery charger, verify the bottom LED illuminates when it is plugged in. A flashing LED indicates a fault. If this occurs, disconnect the charger and reconnect to the power supply. If flashing continues, seek technical support.

Hydraulic System



1. Hydraulic Pump Assembly
2. Fill Cap
3. Hydraulic Reservoir

Hydraulic oil must be replaced on an annual basis, otherwise premature wear and component failure may occur.

Follow these guidelines when servicing the hydraulic system:

- Check oil level only when the platform is fully lowered.
- Refill with Grade 32 mineral oil only.
- Do not overfill the hydraulic oil reservoir. The correct oil level is approximately 1/3 from the base of the reservoir.
- Ensure hydraulic connections around the pump and base of cylinder are tight, undamaged, and without leaks.

To drain the oil from the tank:

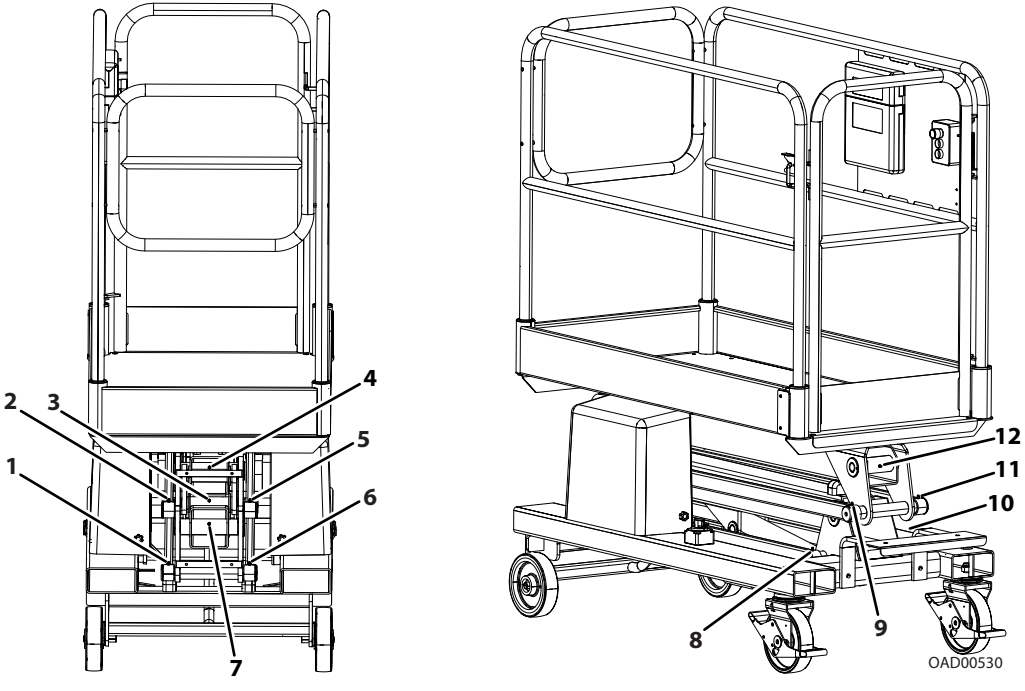
1. Fully elevate the platform.
2. Disconnect the "P" connection at the pump manifold and hold open end over a container suitable for hydraulic oil.

NOTE: *Use a container with a capacity of approximately 5 liters that is suitable for collecting hydraulic oil. To prevent oil from splashing while draining, fill the container with approximately 2 liters of oil before placing the open end of the hose inside.*

3. At the ground controls, press the lift down button until the platform is returned to the stowed position.
4. Secure the hose, then refill the tank at the fill cap (**2**) with 1-2 liters of hydraulic oil.

Lubrication

This machine has 12 pivots that must be lubricated with multipurpose grease on a monthly schedule. Use the following chart to determine pivot location. Remove the knuckle cover at the front end of the arm assembly to access three of the pivots.



Wheels & Castors

Wheels and castors must be in good conditions at all times because they stabilize the machine. Any failure could result in a serious accident. Additionally, bearings that are too tight may make the machine difficult to maneuver. Regular inspection is required to ensure these remain in good working order, especially in harsh conditions.

A simple measure of horizontal push force can determine the conditions of the wheel bearings. On a flat, smooth surface, the machine should move with a force of 9 - 10 kg when pushed from midrail.

An important element of castor maintenance is the condition of castor fixing bolt, which usually can be determined from the condition of the castor bracket. If any distortion is visible, the castor and fixing bolt must be replaced.



NOTES:

SECTION 6. INSPECTION AND REPAIR LOG

Machine Serial Number: _____

DATE	COMMENTS

Machine Serial Number: _____

DATE	COMMENTS



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