



Operation & Safety Manual

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

25AM, 30AM, 38AM

PVC 2208

31220631

February 4, 2026 - Rev C

**ANSI / CE UK
AZ / NZS CA** 

JLG®
An Oshkosh Corporation Company

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.

Foreword

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.

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Hagerstown, MD 21742

USA

or Visit www.jlg.com to find your local JLG office.

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REVISION LOG

Date	Revision	Description
August 8, 2022	A	Original Issue
January 19, 2026	B	Revision
February 4, 2026	C	Revision

Other Publications Available

Publication	Publication Number
Service & Maintenance Manual	31220632
Illustrated Parts Manual	31220633

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SECTION 1

Safety Precautions

1.1 GENERAL

This section outlines the necessary precautions for proper and safe machine usage and maintenance. It is mandatory that a daily routine is established based on the content of this manual to promote proper machine usage. A maintenance program, using the information provided in this manual and the Service & Maintenance Manual, 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.

This section contains 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").

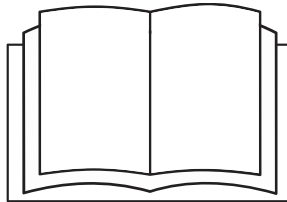
⚠ WARNING

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

1.2.1 Operator Training and Knowledge

- Read, understand, and study the Operation & 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 recognizing and avoiding hazards associated with their operation) shall be authorized to operate a MEWP.

Safety Precautions

- 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.

1.2.2 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. Do not travel on unsupported surfaces.
- This machine can be operated in nominal ambient temperatures of 0°F to 104°F (-20°C to 40°C). Consult JLG to optimize operation outside of this temperature range.
- When operating an internal combustion engine at high altitudes, a decrease in machine performance may occur due to a decrease in air density depending on engine aspiration type, temperature, and humidity, therefore JLG recommends not operating the machine higher than 6000 m above sea level without consultation with the engine suppliers. For electric machines, performance may diminish higher than 6000 m above sea level.

1.2.3 Machine Inspection

- Do not operate this machine until the inspections and functional checks as specified in the User Responsibilities, Machine Preparation, and Inspection Section of this manual have been performed.

- Do not operate this machine until it has been serviced and maintained according to the maintenance and inspection requirements as specified in the machine's Service & Maintenance Manual.
- Ensure all safety devices are operating properly. Modification of these devices is a safety violation.

WARNING

Modification or major alteration of a MEWP shall be made only with the prior written permission from the manufacturer. Modification is defined as change(s) to a MEWP that affect the operation, stability, safety factors, rated load, or safety of the MEWP in any way.

- 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

1.3.1 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.
- Never slam a control switch or lever through neutral to an opposite direction. Always return switch to neutral and stop before moving the switch to the next function. Operate controls with slow and even pressure.
- 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.

Safety Precautions

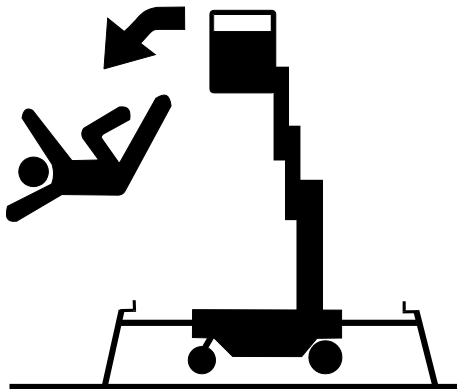
- Do not assist a stuck or disabled machine by pushing or pulling except by pulling at the chassis tie-down lugs.
- Fully lower platform and shut off all power before leaving machine.
- Remove all rings, watches, and jewelry when operating machine. Do not wear loose fitting clothing or long hair unrestrained 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.
- Hydraulic cylinders are subject to thermal expansion and contraction. This may result in changes to the platform position while the machine is stationary. Factors affecting thermal movement can include the length of time the machine will remain stationary, hydraulic oil temperature, ambient air temperature, and platform position.

1.3.2 Trip and Fall Hazards

- Before operating the machine, ensure all gates and rails are fastened and secured in their proper position.



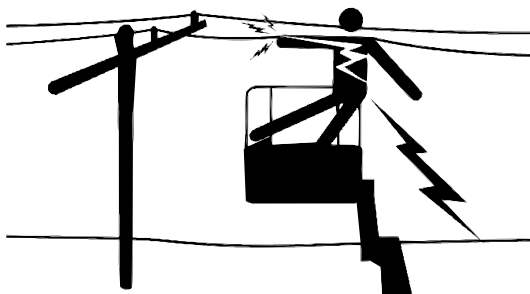
- JLG Industries, Inc. recommends that all persons in the platform wear a full body harness with a lanyard attached to an authorized lanyard anchorage point while operating this machine. For further information regarding fall protection requirements on JLG products, contact JLG Industries, Inc.
- Identify the designated lanyard anchorage point(s) at the platform and securely attach the lanyard. Attach only one (1) lanyard per lanyard anchorage point.
- Prior to entering the platform ensure all leveling jacks have been properly installed and the unit's base frame is level according to the bubble leveling indicator on base frame, and all wheels are completely off the ground.
- 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 mast assembly to gain access to or leave the platform.
- Keep oil, mud, and slippery substances cleaned from footwear and the platform floor.

1.3.3 Electrocuting Hazards

- This machine is not insulated and does not provide protection from contact with or proximity to electrical current.
- It is not recommended to use the machine during lightning. To prevent injury or machine damage if lightning occurs during operation, lower the boom and shut down the machine in a safe and secure location.



- Maintain distance from electrical lines, apparatus, or any energized (exposed or insulated) parts according to the Minimum Approach Distance (MAD) as shown in [Table — Minimum Approach Distances \(MAD\), page 16](#).

Safety Precautions

- Allow for machine movement and electrical line swaying.

Table 1. Minimum Approach Distances (MAD)

Voltage Range (Phase to Phase)	Minimum Approach Distance in Feet (Meters)
0 to 50 KV	10 (3)
Over 50K V 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.	

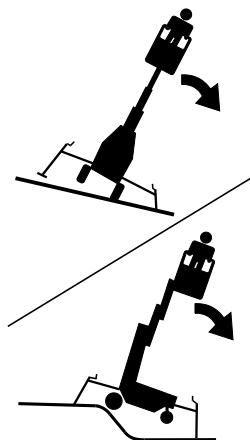
- Maintain a clearance of at least 10 ft (3 m) between any part of the machine and its occupants, their tools, and their equipment from any electrical line or apparatus carrying up to 50,000 volts. One foot additional clearance is required for every additional 30,000 volts or less.
- The MAD may be reduced if insulating barriers are installed to prevent contact, and the barriers are rated for the voltage of the line being guarded. These barriers shall not be part of (or attached to) the machine.
- The MAD shall be reduced to a distance within the designed working dimensions of the insulating barrier. This determination shall be made by a qualified person with respect to electrical transmission and distribution 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.

1.3.4 Tipping Hazards

- Ensure that the ground conditions are adequate to support the maximum wheel load indicated on the wheel load decals located on the chassis adjacent to each wheel. Do not travel on unsupported surfaces.
- The user must be familiar with the operating surface before driving. Do not exceed the allowable side slope and grade while driving.



- 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 positioning machine 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 push or pull any object with the machine.
- 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 mast assembly or platform is caught so that one or more outriggers are off the ground, all persons must be removed before attempting to free the machine. Use cranes, forklift trucks, or other appropriate equipment to stabilize machine.
- Do not operate the machine when wind conditions, including gusts, exceed specifications shown in the Machine Specifications and Operator Maintenance section. Refer to [Table — Beaufort Scale \(For Reference Only\), page 18](#). 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.

Safety Precautions

- 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.
- Do not increase the platform size with unauthorized modifications, deck extensions, or attachments.
- Do not perform work that will subject unit to a horizontal force or create a swaying motion of the platform.

⚠ WARNING

Do not operate the machine when wind conditions exceed specifications shown in the General Specifications section of this manual or as shown on the capacity placard on the platform billboard.

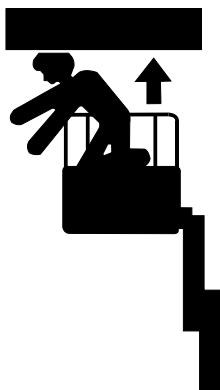
Table 2. Beaufort Scale (For Reference Only)

Beaufort Number	Wind Speed		Description	Land Conditions
	mph	m/s		
0	0	0-0.2	Calm	Calm. Smoke rises vertically
1	1-3	0.3-1.5	Light air	Wind motion visible in smoke
2	4-7	1.6-3.3	Light breeze	Wind felt on exposed skin. Leaves rustle
3	8-12	3.4-5.4	Gentle breeze	Leaves and smaller twigs in constant motion
4	13-18	5.5-7.9	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
5	19-24	8.0-10.7	Fresh breeze	Smaller trees sway.
6	25-31	10.8-13.8	Strong breeze	Large branches in motion. Flags waving near horizontal. Umbrella use becomes difficult.
7	32-38	13.9-17.1	Near Gale/ Moderate Gale	Whole trees in motion. Effort needed to walk against the wind.
8	39-46	17.2-20.7	Fresh Gale	Twigs broken from trees. Cars veer on road.
9	47-54	20.8-24.4	Strong Gale	Light structure damage.

1.3.5 Crushing and Collision Hazards

- Approved head gear must be worn by all operating and ground personnel.

- Watch for obstructions around machine and overhead when operating. Check clearances above, on sides, and bottom of platform during all operations.



- During operation, keep all body parts inside platform railing.
- Keep hands and limbs out of the mast assembly during operation and when elevated without safety prop engaged.
- Always post a lookout when operating in areas where vision is obstructed.
- Keep non-operating personnel at least 6 ft (1.8 m) away from machine during all operations.
- Under all travel conditions, 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 boom or platform. Position barricades on floor if necessary.

1.4 TRANSPORTING

WARNING

Failure to comply with safety precautions listed in this section and on machine may result in machine damage, personnel injury or death and is a safety violation.

1.4.1 Transport

- The platform must be completely empty of tools and debris.

Safety Precautions

- Ensure platform is fully lowered. Remove and stow outriggers.
- Never allow personnel in platform while moving machine.
- To move machine use handles provided on the mast crossbar.

1.4.2 Tipping Hazards

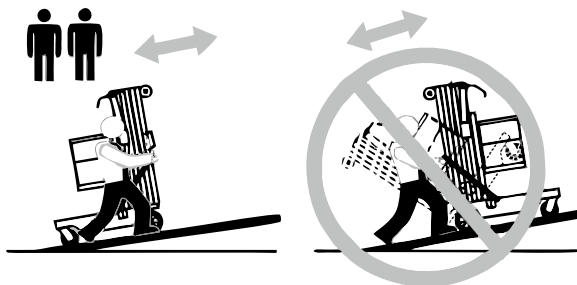
⚠ WARNING

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 level surface, always travel with the platform end leading the way.
- Watch for obstructions around machine and overhead.
- Check travel path for persons, holes, bumps, drop-offs, obstructions, debris, and coverings which may conceal other hazards.

- Before placing machine on floors, trucks and other surfaces, check allowable capacity of surfaces.

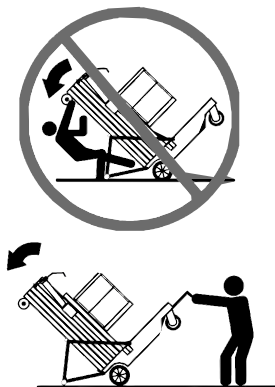


- Two persons are required on slopes up to 5°. A forklift must be used when moving units on slopes greater than 5°.
- Always travel up or down a slope with the platform end of the machine positioned towards the low side of the slope. the operator and assistant must walk beside to guide the machine.
- 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 feet (1.8 m) away from machine during moving operations.

1.4.3 Tilt Back Procedure

(AM38 Machines Only - see [Section — Transport, Lifting and Tie Down](#) for further instructions)

- The platform must be completely empty of tools and debris.
- Ensure platform is fully lowered. Remove and stow outriggers.
- Tilt machine back only on a flat, firm and level surface.



1.5 LIFTING AND HAULING

- Never allow personnel in platform while lifting or hauling.
- Ensure platform is fully retracted and completely empty of tools prior to lifting or hauling.
- When lifting machine with a forklift, position forks only at designated areas of the machine. Lift with a forklift of adequate capacity.
- Refer to the Machine Operation section of this manual for lifting and hauling information.

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 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.

1.6.1 Maintenance Hazards

- Shut off power to all controls and remove the key to 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 the MEWP in any way to affect stability.
- Refer to the Service & Maintenance Manual for the weights of critical stability items.

WARNING

Modification or major alteration of a MEWP shall be made only with the prior written permission from the manufacturer. Modification is defined as change(s) to a MEWP that affect the operation, stability, safety factors, rated load, or safety of the MEWP in any way.

1.6.2 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.

Safety Precautions

- 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.

SECTION 2

User Responsibilities, Machine 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.

2.1.1 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 MEWP 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.

2.1.2 Training Supervision

Training must be delivered by a qualified person in an open area, free of hazards until the trainee has demonstrated the ability to safely control and operate the machine.

2.1.3 Operator Responsibility

Operators 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.

2.1.4 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 following table covers the machine inspections and maintenance recommended by JLG Industries, Inc. Consult local regulations for further requirements for MEWPs. Frequency of inspections and maintenance must be increased as necessary when machine is used in a harsh or hostile environment, if machine is used with increased frequency, or if machine is used in a severe manner.

Table 3. Inspection and Maintenance Table

TYPE	FREQUENCY	PRIMARY RE- SPONSIBILI- TY	SERVICE QUALIFICA- TION	REFER- ENCE
Pre-Start Inspection	Before using each day; or whenever there's an Opera- tor 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 inspec- tion form

Table 3. Inspection and Maintenance Table (continued)

TYPE	FREQUENCY	PRIMARY RESPONSIBILITY	SERVICE QUALIFICATION	REFERENCE
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 the 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 the proper maintenance personnel.
2. **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.
3. **Operators and Safety Manuals** – Make sure a copy of the Operator and Safety Manual, AEM Safety Manual (ANSI Markets Only), and ANSI Manual of Responsibilities (ANSI Markets Only) is enclosed in the weather resistant storage container.
4. **Walk-Around Inspection** – Refer to [Figure — Daily Walk-Around inspection](#).
5. **Battery** – Charge as required.

6. **Fuel** – (Combustion Engine Powered Machines Only) – Add proper fuel as necessary.
7. **Hydraulic Oil** – Check hydraulic oil level. Add hydraulic oil as required.
8. **Function Check** – Once “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 — Machine Controls and Indicators](#) for specific instructions.

WARNING

If machine does not operate properly, turn off machine immediately! Report problem to proper maintenance personnel. Do not operate machine until it is declared safe for operation.

2.4 DAILY WALK-AROUND INSPECTION

2.4.1 General

Begin Walk-Around Inspection at item 1 (See [Figure — Daily Walk-Around inspection, page 30](#)). Continue around machine checking each item in this check list.

CAUTION

To avoid possible injury, be sure machine power is OFF during walk-around inspection.

NOTICE

Do not overlook visual inspection of chassis underside. Checking this area may result in discovery of conditions which could cause extensive machine damage.

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

1. **Front Caster Wheels** - Properly secured, wheels and casters turn freely. Brakes lock and release - prevent wheels from rolling when locked.
2. **Rear Wheels** - Properly secured. Wheels turn freely.
3. **Tiltback Wheels** - Properly secured. Wheels turn freely.
4. **Base Frame** - Components properly secured, no loose wires dangling below base; bubble level in place and functioning properly.
5. **Tilt Back Assembly** - (38AM Models Only) Properly secured; no parts missing i.e.. safety pins, gas spring cylinder(s), caster wheels, etc.

6. **Battery/Charger Box Assembly** - (DC Voltage Machines) Proper battery electrolyte level, no cable corrosion. Battery box pivots freely when machine is tilted for transporting.
7. **Outrigger Interlock Indicator LED's** - See note above.
8. **Outrigger Sockets** - Outrigger lock/release pins in place and secure, no visible damage. Outrigger interlock contacts (inside outrigger sockets) secure and clean.
9. **Outrigger Beams** - Outrigger interlock contacts properly installed and clean (on bottom of outrigger assembly). Leveling jacks secure to the outrigger assembly, lubricated and functioning properly.
10. **Motor/Pump/Reservoir Power Unit** - No evidence of hydraulic leaks. Check that hydraulic reservoir fluid level is filled to the "Fill to Line" mark on the side of the reservoir.
11. **Manual Release Control Valve** - See note above.
12. **Ground Controls** - Key switch operable, placards secure and legible; emergency stop switch, properly set for operation.
13. **Mast Assembly** - Inspect mast chains or cables as per note above.
14. **Platform Rail Installation** - Entry gate/bar in proper working order.
15. **Platform Assembly** - Secure to mast; Control and power cables properly tensioned and seated in control cable sheaves; control cable sheaves rotate freely.
16. **Platform Controls** - Placards secure and legible, emergency shut-off button set for operation. Operators manual enclosed in manual storage tube.

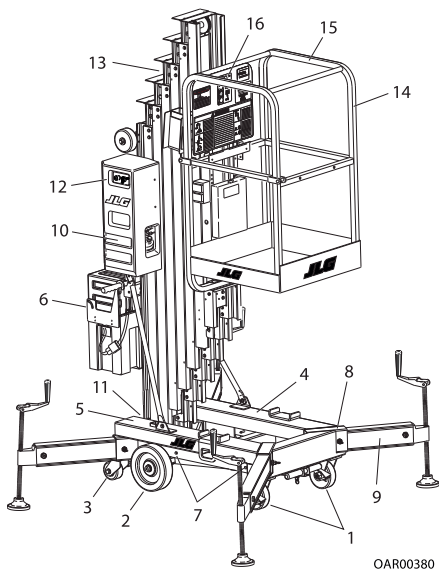


Figure 1. Daily Walk-Around inspection

1. Caster Wheels and Brakes	7. Outrigger Interlock Indicator LED's	13. Mast Assembly
2. Rear Wheel	8. Outrigger Sockets	14. Platform Rail Installation
3. Tilt Back Wheel	9. Outrigger Beams	15. Platform Assembly
4. Base Frame	10. Motor/Pump/Reservoir Power Unit	16. Platform Controls
5. Tilt-Back Assembly (Not Shown - 38AM only)	11. Manual Release Control Valve	
6. Battery/Charger Box Assembly	12. Ground Controls	

2.5 FUNCTION CHECK

The function check of all systems should be performed in an area free of overhead and ground level obstructions. Perform a function check as follows:

1. Set-up machine for operation according to instructions in [Section — Machine Controls and Indicators](#). Install outriggers, level machine, make sure all wheels are off the ground, etc.
2. Enter platform, raise and lower platform 2 ft to 3 ft (.61m to .92 m) several times. Check for smooth elevation and lowering of platform.
3. With platform completely lowered, check hydraulic oil level in reservoir at ground control station. Maintain an oil level to "Fill to Line" indicator on side of reservoir. NEVER USE HYDRAULIC BRAKE FLUID.

SECTION 3

Machine Controls and Indicators

3.1 GENERAL

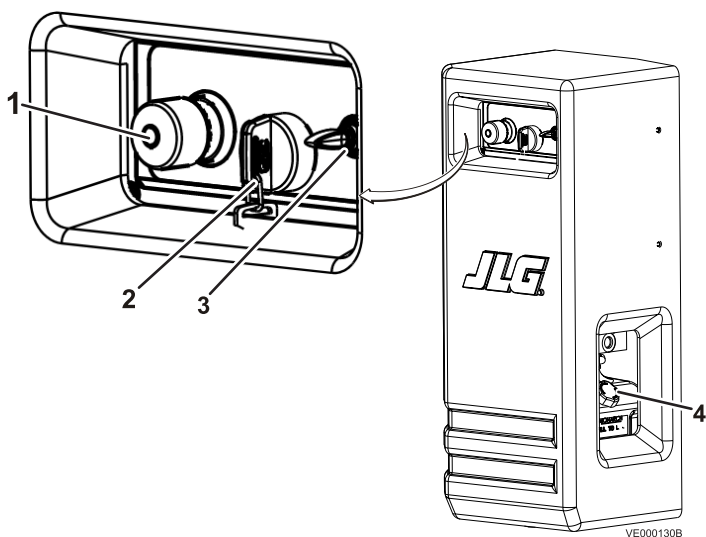
NOTICE

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 functions.

3.2 CONTROLS AND INDICATORS

3.2.1 Ground Control Station



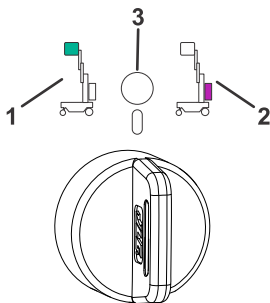
- | | |
|--|---|
| 1. Ground Emergency Stop Switch | 3. Lift/Lower Switch |
| 2. Ground/Platform/Off Key Selector Switch | 4. Hydraulic Reservoir/Circuit Breaker/Fuse |

1. Ground Emergency Stop Switch

The two position switch allows power to the platform and ground controls when pulled out (on). When pushed in (off), power is shut off to the platform and ground controls.

2. Ground/Platform/Off Key Selector Switch

The key selector switch on the ground control station functions to direct electrical power to the desired control station. With the switch turned to the **ground position (2)**, power is supplied to the controls at the ground control station. When the switch is turned to the **platform position (1)**, power is supplied to the controls at the platform control station. The switch should be set to the **off position (3)** when not using machine or parking the machine overnight. For overnight parking or battery charging, be sure the ground/platform/off key selector switch is positioned to off prevent battery drain.



3. Lift/Lower Switch

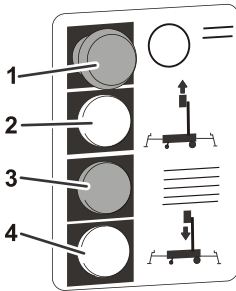
The two position switch allows the platform to be raised or lowered.

4. Hydraulic Reservoir / Circuit Breaker / Fuse (located inside the ground control station housing)

The hydraulic oil level can be checked through an access hole in the side of the cover. A 20 amp reset type circuit breaker is located on the cover of the electrical box on AM-AC Models. On AM-DC Models, a 5 Amp fuse is located inside the ground control station cover.

Note: Check hydraulic oil only when platform is completely lowered and after cycling platform up/down a few times.

3.2.2 Platform Control Station



1. Platform Emergency Stop Switch (Red)
2. Platform Lift Button (White)
3. Function Enable Button (Green)
4. Platform Lower Button (White)

1. Platform Emergency Stop Switch

A two-position, red, mushroom shaped emergency stop switch, when positioned to on with the key selector switch positioned to platform, furnishes operating power to the platform control station. Power is turned on by pulling the switch out and is turned off by pressing the switch. In addition, the switch can be used to turn off power to the function controls in the event of an emergency. The platform control station emergency stop switch is independent from the ground control power.

2. Platform Lift Button

This button raises the platform when pressed simultaneously with the function enable button.

3. Function Enable Button

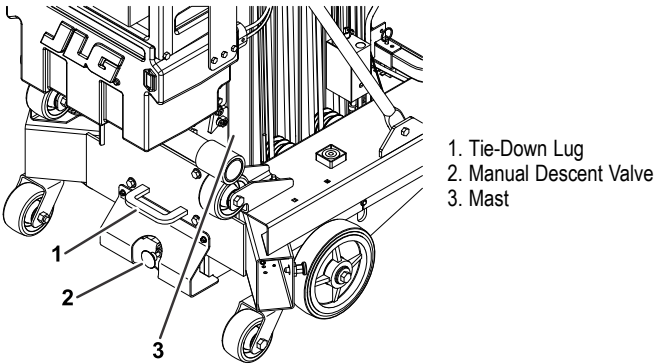
This green button must be pressed in order to raise or lower the platform.

4. Platform Lower Button

This button lowers the platform when pressed simultaneously with the function enable button.

3.2.3 Manual Descent Valve

This pull-to-release spring-loaded return valve (red knob) allows for lowering of the platform in an emergency or power failure.



3.3 DECAL INSTALLATIONS

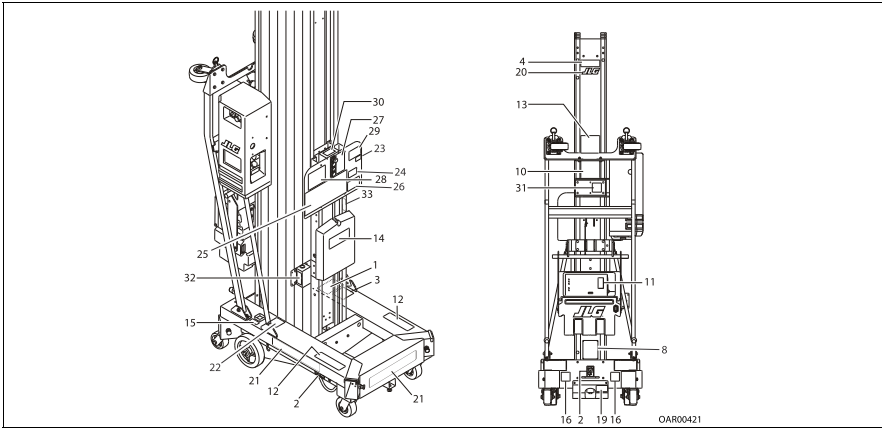


Figure 2. Decal Installation. (ANSI/CSA)

Table 4. Decal Installation Chart (ANSI and CSA) (See Figure — Decal Installation. (ANSI/CSA).)

Item	ANSI	ANSI (LAT)	ANSI (BRZ)	ANSI (JPN)	ANSI (CHI - SAMP)	ANSI (CHI - TRAD)	CSA (FRE)
1	1001131273						1001131273
2				1702300			
3				Bar Code - Not Available			
4				Model Designation – 25AM - 1001271756 / 30AM - 1001271757 / 38AM - 1001271758			
5				Not Used			
6				Not Used			
7				Not Used			
8				Serial Number Plate - Not Available			
9				Not Used			
10	1703784	1704030	1704022	1704088	1704078	1706696	1703784
11	1703785	1704031	1704023	1704089	1704079	1706697	1703785
12	1703786	1704032	1704024	1704090	1704081		1703786
13 ⁽³⁾	1703787	1704033	1704025	1704091	1704082	1706695	1703787
14				1701509			
15	1703789	1704034	1704026	1704092	1704083	1706699	1703789
16				1703817			
17				Not Used			
18				Not Used			

Table 4. Decal Installation Chart (ANSI and CSA) (See Figure — Decal Installation. (ANSI/CSA).) (continued)

Item	ANSI	ANSI (LAT)	ANSI (BRZ)	ANSI (JPN)	ANSI (CHI - SIMP)	ANSI (CHI - TRAD)	CSA (FRE)
19	1001115864						
20	1703681 - JLG Logo						
21	1001126700 - Manlift						
22	1001223055	1001224049	1001224049	1001224053	1001224051	1001224050	1001223971
23	1001228370						1001228370
24	1001231801						
25	1703778	1704027	1704019	1704084	1704075	1706692	1703778
26	1703779						
27	1703780	1704028	1704020	1704085	1704076	1706693	1703780
28	1703781	1704029	1704021	1704086	1704077	1706694	1703781
29 ⁽¹⁾	1001256055						
29 ⁽²⁾	1001256056						
30	1703994						
31	1001110242 - JLG Service						
32	Voltage Options: 3252761-120VAC / 3252760-220V-240VAC						
33	1001213582						
<div>Note: 1. 30AM/38AM Only 2. 25AM Only 3. Installed on 38AM machines with tilt back option only.</div>							

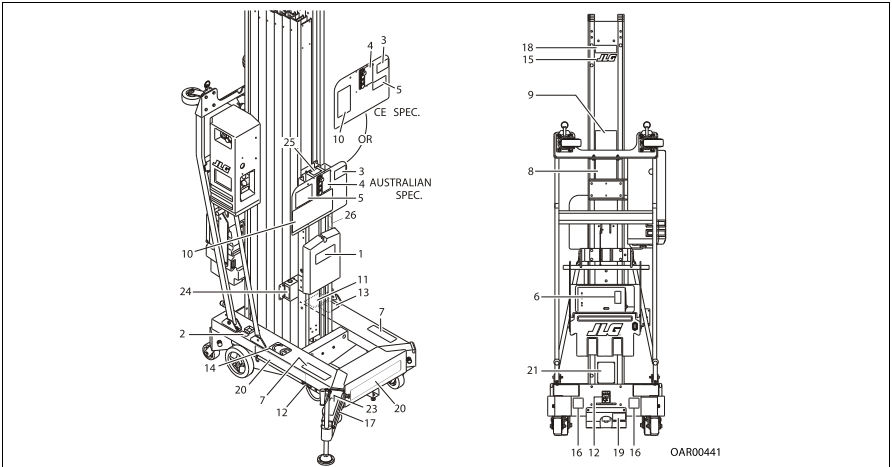


Figure 3. Decal Installation (CE/UKCA and AUS)

Table 5. Decal Installation Chart (CE/UKCA and AUS Specification) (See Figure — Decal Installation (CE/UKCA and AUS).)

Item	CE/UKCA (ENG)	CE/UKCA (DUT)	CE/UKCA (FRE)	CE/UKCA (GER)	CE/UKCA (ITA)	CE/UKCA (SPA)	(AUS)
1	1701509						
2	Not Used						
3	1704094 ⁽¹⁾ / 1704095 ⁽²⁾						
4			1705801				1703780
5			1702802				1703781
6			1705803				1703785
7			1705805				1703786
8			1705831				1703784
9			1001098578				1703787
10			1001098579				1703778
11	Not Used						
12	1702300						
13	Not Available - Bar Code						
14			1702928				—
15			1703681				
16			1703817				
17			4410051				—

Table 5. Decal Installation Chart (CE/UKCA and AUS Specification) (See Figure — Decal Installation (CE/UKCA and AUS).)
(continued)

18	Model Designation- 25AM- 1001271756 / 30AM- 1001271757 / 38AM- 1001271758		
19	1001115864		
20	1001126700		
21	Serial Number Plate - Not Available		
22	Not Used		1703789
23	Not Used		1705796
24	120VAC- 3255761 /220V-240VAC-3255760		
25	1703994 (Optional)		
26	1001213582		
<div>Note: 1. 30AM/38AM 2. 25AM 3. Installed on 38AM machines with tilt back option only.</div>			

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SECTION 4

Machine Operation

4.1 DESCRIPTION

This machine is a manually propelled machine, with a work platform mounted to an elevating aluminum mast mechanism. The personnel lift's intended purpose is to provide personnel (with their tools and supplies) access to areas above ground level.

The primary operator control station is in the platform. From this control station, the operator can raise and lower the platform. A ground control station is provided to lower the platform to the ground in an emergency if the operator in the platform is unable to do so, or if a power failure should occur.

Vibrations emitted by these machines are not hazardous to an operator in the work platform. The equivalent continuous AWeighted sound pressure level at the work platform is less than 70dB(A).

4.2 OPERATING CHARACTERISTICS AND LIMITATIONS

4.2.1 Capacities

The platform can be raised above the stowed position if:

- The machine is positioned on a smooth, firm surface on which the machine is capable of being leveled.
- Load is within manufacturer's rated capacity.
- All machine systems are functioning properly.
- The machine is leveled and outriggers are properly installed as indicated by the outrigger interlock LED lights on the base frame.

4.3 BATTERY CHARGING AND MAINTENANCE - (DC MODELS ONLY)

AM-DC Models are equipped with a 12 volt, 10 amp output - dual voltage (120/240V) input battery charger. The charger is microprocessor controlled featuring an automatic charge sensing circuit which can determine cell voltage and regulate charger output and terminate charging as required.

4.3.1 Battery Maintenance and Safety

BATTERY ACID IS HIGHLY CORROSIVE. AVOID CONTACT WITH SKIN AND CLOTHING AT ALL TIMES.

BATTERY ACID RELEASES AN EXPLOSIVE GAS WHILE CHARGING, ALLOW NO OPEN FLAMES, SPARKS OR LIGHTED TOBACCO PRODUCTS IN THE AREA WHILE CHARGING BATTERIES. CHARGE BATTERIES ONLY IN A WELL VENTILATED AREA.

ADD ONLY DISTILLED WATER TO BATTERIES. WHEN ADDING DISTILLED WATER TO THE BATTERIES, A NON-METALLIC CONTAINER AND/OR FUNNEL MUST BE USED.

The battery fluid level should be approximately 1/8" (3mm) below vent tubes. (See [Figure — Battery Fluid Level, page 42.](#))

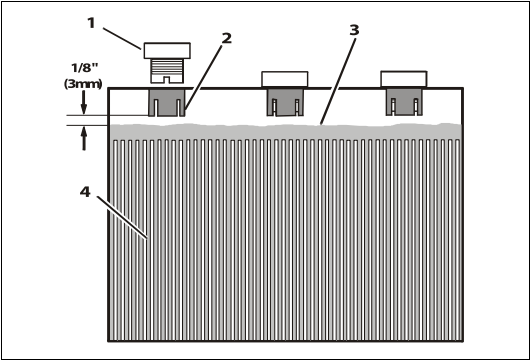


Figure 4. Battery Fluid Level.

1. Battery Filler Cap	3. Fluid Level
2. Vent Tube	4. Cell Plates

4.3.2 Battery Charger Operation

NOTICE

Always check the voltage select switch on the face of the battery charger before operation. If not set to the proper ac power input voltage, the charger may be damaged.

- 1. Turn the ground control key switch to the OFF position.
- 2. Set the AC voltage switch on the face of the charger for the local AC line voltage.
- 3. Plug the battery charger AC power cable, stowed inside the battery/charger carrier (beside charger) into a properly grounded receptacle. Use a suitable extension cord, if necessary.

4. The charger runs through a self-diagnostic check. The LED's on the face of the charger flash in the following sequence;
 - a. First all five (5) LED's flash three (3) times.
 - b. Next each LED lights in sequence.
 - c. Finally all five (5) LED's flash three (3) times again.
5. When ready to charge, the CHARGER ON LED and the INCOMPLETE CHARGE (25%) LED on the front panel of the charger will light up, the charger will then begin to charge the batteries.

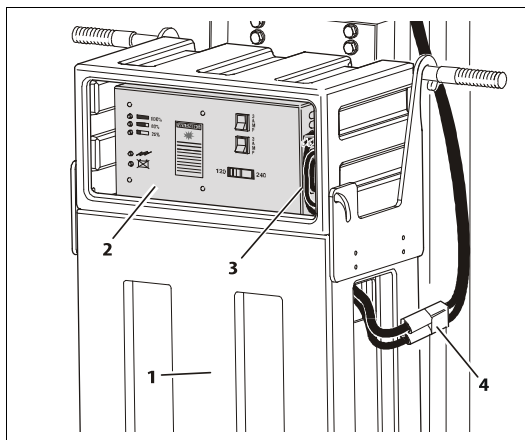


Figure 5. Battery Box and Charger Assembly. (D.C. Model Only)

1. Battery Box/Charger Assembly	3. Charger AC Power Cord
2. DC Battery Charger	4. DC - Battery to Machine Main Power Connector

6. When the battery cell voltage reaches 2.37 V/cell the 80% CHARGE LED will light up. The charger then continues to monitor the increase in charge until it sees no increase, and then terminates the charging process.
7. The CHARGE COMPLETE (100%) LED will light when the batteries are fully charged.
8. Unplug the charger AC power cord and stow the cord.

4.3.3 Abnormal Cycle Indicator LED

The ABNORMAL CYCLE indicator LED will light when;

- The AC input to the charger was interrupted.
- There is a dead cell or cells in the battery.
- One or more of the battery connectors are loose or corroded.

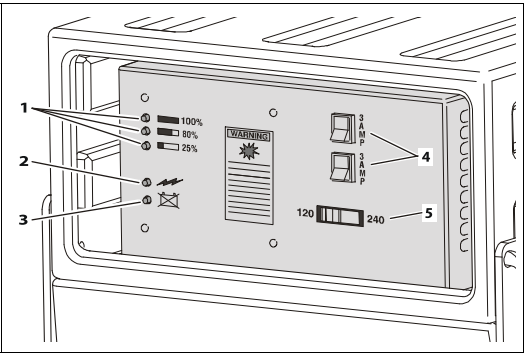


Figure 6. Dual Voltage Charger - Front Panel.

1. % of Charge in Progress LED's (Green)	4. Circuit AC Circuit Breakers
2. Charger On LED (Green)	5. AC Voltage Selection Switch
3. Abnormal Cycle LED (Yellow)	

4.4 MACHINE SET-UP AND OPERATION

To set-up machine for operation the operator must:

- 1. Position machine in work area.

Note: If AC powered machine, connect machine to a grounded AC receptacle with a heavy duty extension cord equipped with an equipment grounding conductor.

If DC powered machine, check battery box assembly is installed, battery is charged and connected to machine's DC receptacle.

- 2. Set key switch to ON position at ground control station.
- 3. Check both emergency stop switches are in RESET position for operation.
- 4. Check manual decent control valve (red knob) is closed.

⚠ WARNING

Apply front caster brakes so machine does not roll in any direction. Do not install outriggers or elevate platform until front caster brakes are locked.

- 5. Apply caster brakes.
- 6. Install outriggers.

4.4.1 Caster Brake Operation

- 1. Press down on caster brake lever on both casters at front of machine to apply caster brakes.

2. To disengage caster brake, apply pressure or lift up on caster brake lever.

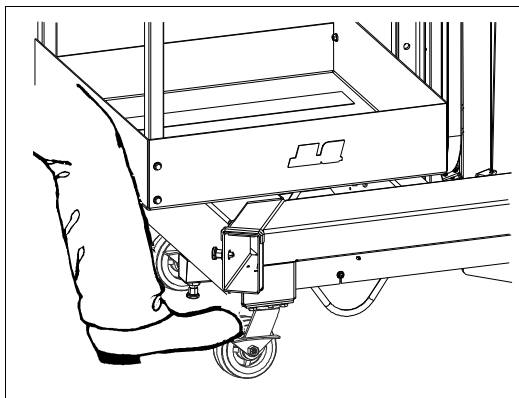


Figure 7. Setting & Releasing Caster Brake

4.4.2 Outrigger Installation

(See [Figure — Outrigger Installation., page 46](#))

NOTICE

As a safety precaution, due to different lengths, outrigger beams are designed to fit a specific model and are not interchangeable.

1. Remove one outrigger beam from the stowage socket.
2. Insert outrigger beam into an outrigger socket on the base frame with outrigger interlock contact on the bottom. Push outrigger beam in socket until locking pin on side of outrigger socket snaps into the outrigger beam detent. Repeat for remaining outriggers.
3. With all outriggers inserted, turn each outrigger jack down, lifting entire machine until all wheels are off the ground.
4. When all four (4) wheels are off the ground, use the bubble level on the base frame to level machine.

NOTICE

Machine will operate only if all four (4) interlock led lights are illuminated.

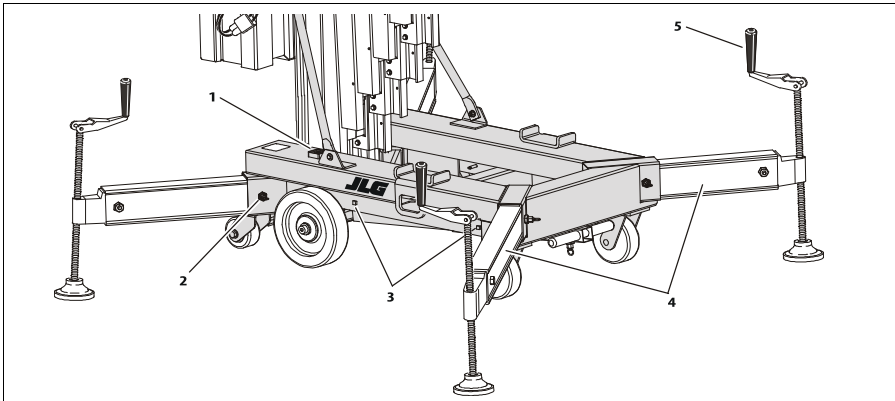


Figure 8. Outrigger Installation.

1. Bubble Level Indicator	4. Outrigger Beam Assembly
2. Outrigger Lock/Release Pin	5. Leveling Jack
3. Interlock LED's	

4.4.3 Platform Loading

Platform maximum rated load capacity is shown on a placard located on the platform control panel. Applies to all available AM model platforms.

Maximum capacity for each model is as follows:

Table 6. Maximum Platform Capacity.

MODEL	PLATFORM CAPACITY FOR MACHINES BUILT TO SPECIFICATION	
	ANSI	CE/UKCA
25AM-DC/AC	350 lb. (160 kg)	350 lb. (160 kg)
30AM-DC/AC	300 lb. (136 kg)	300 lb. (136 kg)
38AM-DC/AC	300 lb. (136 kg)	300 lb. (136kg)

4.4.4 Platform Operation

- 1. Enter platform and close gate/slide bar.

2. To raise platform, press FUNCTION ENABLE button and platform UP button simultaneously. Upon reaching desired elevation level, release UP and FUNCTION ENABLE buttons.

WARNING

Check area beneath platform is free of personnel and obstructions prior to lowering platform.

3. To lower platform, press FUNCTION ENABLE button and platform DOWN button on control panel simultaneously.

4.5 QUICK-CHANGE PLATFORM MOUNTS

(See [Figure – Quick Change Platform Mount, page 48.](#))

The AM model is equipped with platform mounting for quick and simple exchange of platforms.

4.5.1 Platform Removal

1. Remove both pins holding lower platform support rail to platform lower mount.
2. Remove both pins holding upper platform support rail to platform upper mount.
3. Using suitable lifting equipment or another person, swing lower platform support rail forward, away from mast to clear platform lower mount, then lift upper platform support rail up and out of platform upper mount.

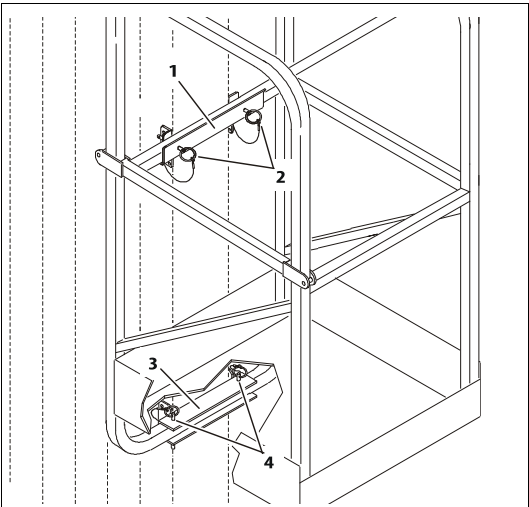


Figure 9. Quick Change Platform Mount.

1. Platform Upper Mount	3. Platform Lower Mount
2. Upper Mount Attach Pins	4. Lower Mount Attach Pins

4.5.2 Platform Installation

1. Using two people or suitable lifting equipment, lift platform and set platform upper support rail into the upper platform mount on the mast.
2. Swing platform lower support rail into lower platform mount on the mast.
3. Secure platform support rails with two (2) platform upper mount pins, and two (2) lower platform mount pins.

4.6 MACHINE SHUT DOWN AND PARK

1. Ensure platform is fully lowered, turn key switch to OFF position.
2. Store outrigger beams in stowage sockets.
3. Move machine to a well-protected and well-ventilated area. In a hostile environment, cover machine for protection.
4. Apply caster brakes and chock at least two wheels when parking machine for extended time.
5. Remove key switch to disable machine from unauthorized use.

4.7 TRANSPORT, LIFTING AND TIE DOWN

4.7.1 General

To move machine from work area to work area the operator may:

- Push machine on its base wheels.
- Push machine in Tilt-Back mode.
(38AM only)
- Move machine using a forklift.
- Load machine on back of a pickup truck, using the built-in load bar.

Note: 38AM machines are equipped with a permanently attached tilt-back assembly to allow machine to fit through standard size doorways

4.7.2 Transporting by Pushing

The standard machine's base frame is equipped with load bearing wheels mounted on a straight axle at the mast end of the machine; and a pair of heavy duty swivel caster wheels mounted on the frame at the platform end of the machine.

CAUTION

Refer to [Section — Transporting](#) safety precautions before transporting machine.

4.7.3 Tilt-Back Assembly Set-up (AM38)

(See [Figure — Tilt-Back Assembly Set-Up, page 51](#); [Figure — Tilt-Back Assembly Set-Up, page 51](#) and [Figure — Tilt-Back Assembly Set-Up, page 52](#).)

NOTICE

Platform must be fully lowered, and outrigger beams must be stowed. On dc models ensure battery box/charger assembly is not obstructed and is clear to swing once machine is tilted.

CAUTION

Refer to [Section — Transporting](#) safety precautions before transporting machine.

1. Move machine to an area that is level, clear and free of obstacles.
2. (Step 1) Hold the tilt-back assembly in place and remove the release pin securing the tilt-back assembly to the gas spring cylinder.
3. Lower the tilt-back assembly as far as it will go onto its rubber bumpers.

4. (Step 2) Pull the gas spring cylinder out of it's retaining clip on the back of the mast assembly. Lower and extend or retract the cylinder to guide the groove pins on the end of the cylinder into the slots on the tiltback crossbar assembly bracket. Secure the cylinder to the tilt-back crossbar bracket by replacing the pin removed in step 1 to lower the tilt-back assembly.

Note: If moving machine in other than a straight line forward, unlock tilt-back swivel wheels by pulling the swivel wheel lock pins out then turning pins 90° to the unlock position. This will allow the tilt-back swivel wheels to rotate freely and steer machine while moving.

5. (Step 3) Fully extend the T-handle lifting bar located under the front of the machine by pulling down on the release/lock pin located under the bar. Fully extend the lifting bar until the release/lock pin snaps back in, locking the bar in place. Push or pull bar to be certain it is secure before lifting machine.
6. (Step 4) With both hands on the grips of the T-handle lifting bar, carefully lift the front of the machine and tilt the machine back onto the tilt-back assembly and the gas spring cylinder.

7. Push machine around using the loop grips just behind the front swivel wheel assemblies under the base frame.

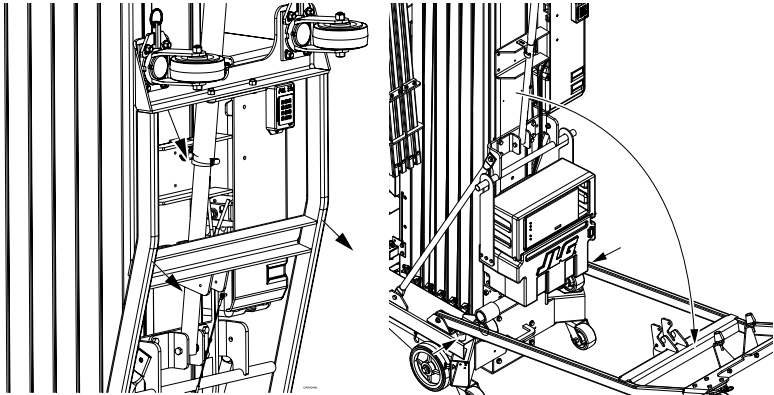


Figure 10. Tilt-Back Assembly Set-Up

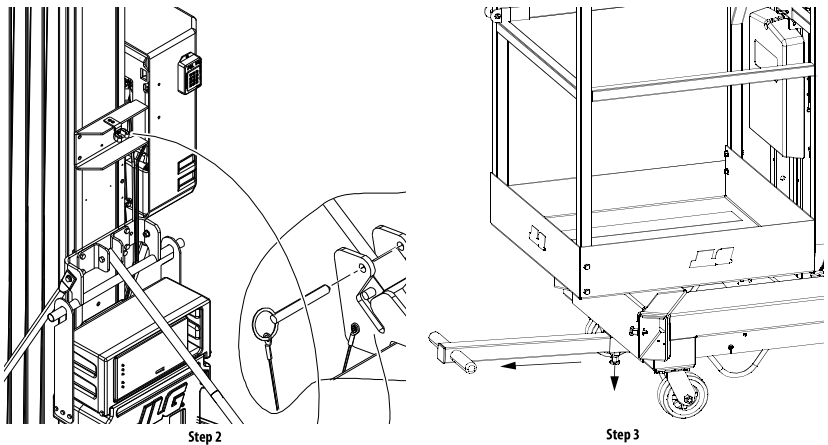


Figure 11. Tilt-Back Assembly Set-Up

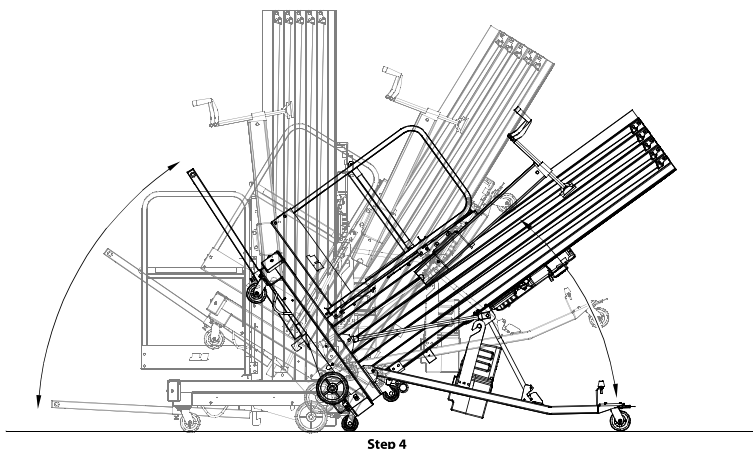


Figure 12. Tilt-Back Assembly Set-Up

4.7.4 Pickup Truck Loading Device (Option)

(See [Figure — Loading Machine onto Bed of Pick-Up Truck](#), page 53.)

Note: The stowed mast height of the 38AM exceeds the length of most pick-up truck beds. JLG does not recommend transporting those models by pick-up truck.

AM model machines can be transported in a standard full size pickup truck. If the machine is equipped with the loading device option, it can be loaded and unloaded by one person.

Note: For a smooth rolling surface and even weight distribution, it is recommended that 3/4" to 1" (2 to 2.5cm) thick plywood be placed in the truck bed and out onto the tailgate. This should avoid tailgate damage.

Park truck on a firm, smooth, level surface with the tailgate open. Remove the battery/charger storage box from DC model machines.

1. Set load pivot bar on back of mast so bar is set approximately 1 - 2 in (3 to 5 cm) above tailgate height. Use the spring loaded locking pin to raise or lower the load pivot bar. Once bar is locked in place, push machine against the tailgate.
2. At front of the machine, extend the T-handle lifting bar from the base frame.
3. Begin lifting the machine onto the tailgate of the truck with the T-handle lifting bar. As machine begins to pivot be certain the load pivot bar is engaging the truck tailgate.
4. Continue lifting and pushing machine onto the truck bed, firmly grasp the machine by the base frame pushing it all the way into truck bed.
5. Secure machine to the truck bed with rope or tie down hooks to limit any machine movement while transporting.

To unload machine from truck bed, reverse loading instructions above.



1



2

Figure 13. Loading Machine onto Bed of Pick-Up Truck.



3



4

Figure 14. Loading Machine onto Bed of Pick-Up Truck.



5

Figure 15. Loading Machine onto Bed of Pick-Up Truck.

4.7.5 Lifting

To lift the machine, use suitable lifting equipment capable of handling the weight of the machine.

Note: Fork lifts, cranes, chains, slings, etc. must be capable of handling the following weights:

Table 7. AM Machine Gross Weights

AM Model	Gross Weight
25AM-AC	825 lb. (374kg)
25AM-DC	905 lb. (411kg)
30AM-AC	1030 lb.(467kg)
30AM-DC	1110 lb.(503kg)
38AM-AC	1265 lb.(574kg)
38AM-DC	1395 lb. (633kg)

Note: All AM models are equipped with forklift pockets at the mast end of frame for transporting the unit. An optional crane hook is available. Do not lift with a crane without the optional crane hook.

4.7.6 Machine Tie Down

Secure the machine to the transport vehicle using the tie down lug weldments provided on the rear and sides of the machine.

1. Transport only with platform in the stowed position.
2. Remove all loose items from machine.

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SECTION 5

Optional Equipment

5.1 OPTIONAL EQUIPMENT

The following optional equipment is available for AM model machines:

5.1.1 22" x 22" Quick-Change Platform (Not Available in CE/UKCA Markets)

The 22" (56cm) long by 22" (56cm) wide platform features a gull wing gate opening.

5.1.2 26" x 26" Quick-Change Platform (Not Available in CE/UKCA Markets)

The 26" (66cm) long by 26" (66cm) wide platform features a side entry gate opening.

5.1.3 28" x 26" Quick-Change Platform (Not Available in CE/UKCA Markets)

The 28" (71cm) long by 26" (66cm) wide platform features a gull wing gate opening.

5.1.4 Tool Tray

Platform attachment to hold hand tools or other small items placed in the tray.

5.1.5 Fluorescent Tube Caddy

Platform attachment for handling fluorescent tubes.

5.1.6 Crane Hook

Attached at the top rear of the mast, the crane hook is used to lift the machine up or down to another level.

5.1.7 Extra Power Pack (Battery, Charger & Case)

Includes the battery, charger and molded case.

5.1.8 Platform Auxiliary Power Lowering Device

The Platform Auxiliary Power Lowering device is a switch activated battery backed electrical circuit designed to provide power to the platform control box in the event of loss of the machines power supply.

5.1.9 Hour Meter

(See [Figure — Hour Meter Location, page 58.](#))

The machine hour meter accumulates pump operation time during the platform LIFT UP cycle only. The reading indicates hours and tenths of an hour.

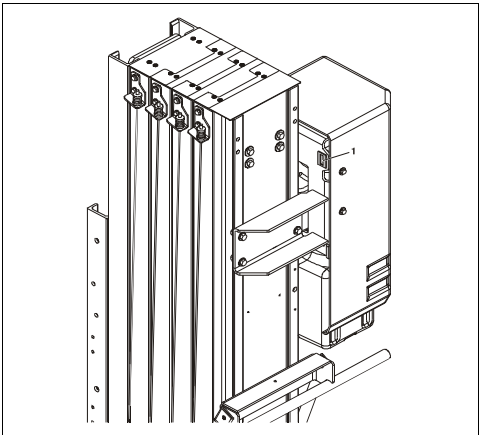


Figure 16. Hour Meter Location.

1. Hour Meter

SECTION 6

Emergency Procedures

6.1 GENERAL INFORMATION

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

6.2 EMERGENCY OPERATION

6.2.1 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.
3. Cranes, forklift trucks or other equipment can be used to remove the platform occupant and stabilize motion of the machine.

6.2.2 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.

6.2.3 Righting of Tipped Machine

Before righting a tipped machine, check machine for any damage which may prevent it from setting 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.

NOTICE

Following any incident, thoroughly inspect the machine and test all functions. Do not lift above 10 feet (3 meters) until you are sure that all damage has been repaired, if required, and that all controls are operating correctly.

6.3 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

NOTICE

Following any incident, thoroughly inspect the machine. Do not elevate the platform until it is certain 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.

SECTION 7

General Specifications and Operator Maintenance

7.1 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 machine 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.

7.2 GENERAL SPECIFICATIONS

7.2.1 Machine Specifications

SPECIFICATION	25AM	30AM (EX- CEPT CE/ UKCA)	30AM (CE/UK- CA ONLY)	38AM
Gross Machine Weight DC: (Platform Empty):	905 lb. (411 kg)	1110 lb. (503 kg)	1110 lb. (503 kg)	1395 lb. (633 kg)
AC:	825 lb. (374 kg)	1030 lb. (467 kg)	1030 lb. (467 kg)	1265 lb. (574 kg)
Machine Height (Platform Stowed)	77.3 in.	77.3 in.	77.3 in.	*77 in. (2m)
*Machine Height in Tilt-Back Mode	(2m)	(2m)	(2m)	104.3 in. (2.64m)
Maximum Outrigger Pad Load: (per outrigger)	510 lb. (231 kg)	510 lb. (231 kg)	510 lb. (231 kg)	510 lb. (231 kg)
Outrigger Footprint: (Length x Width)	68 x 62 in. (1.72 x 1.57 m)	79 x 79 in. (2.0 x 2.0m)	75 x 72 in. (1.90 x 1.83m)	86 x 84 in. (2.18 x 2.13m)
Machine Base - Overall : (Length x Width)	49 x 29 in. (1.24m x 74cm)	52 x 29 in. (1.32m x 74cm)	52 x 29 in. (1.32m x 74cm)	57.5 x 29 in. (1.46m x 74cm)

General Specifications and Operator Maintenance

SPECIFICATION	25AM	30AM (EX- CEPT CE/ UKCA)	30AM (CE/UK- CA ONLY)	38AM
Maximum Wind Speed:	0 mph (0 kph) - Machine rated for indoor use only			
Maximum Horizontal Manual Side Force: (Platform fully extended with Maximum load)	45 Pound Force (200 Newtons)			
Maximum Hydraulic System Pressure:	Pressure Relief Set to 2800 PSI (193 bar) at Factory			

7.2.2 Electrical Specifications

SPECIFICATION		25AM	30AM	38AM
System Voltage:	DC Models:	12 Volts DC		
	AC Models:	100/120/240 Volts AC		
Battery Charger (DC Models)	Input:	120/240 Volts AC- 50/60 Hz- Voltage Selectable		
	Output:	12 Volt- 10 Amps DC- w/Auto Charge Sensing Circuit		

7.2.3 Battery Specifications

Battery Type:	WET/DRY COMBO	AGM (VRLA)
Voltage:	12 Volts DC	
Amp Hour (AH) Rating:	105 Amp Hr.@ 20 Hr.	100 Amp Hr.@ 20 Hr.
Reserve Capacity:	165 Min.	N/A
Cold Cranking Amps:	625 Amps @0° F	N/A
Weight:	54 lb. (24kg)	78 lb. (35kg)

7.2.4 Platform Data

SPECIFICATION	25AM	30AM	38AM
Occupants: (Persons allowed in Platform)	1 Person	1 Person	1 Person
Platform Capacity : ANSI/CSA: (U.S.A, Brazil, Japan, China, Latin America)	350 lb. (160 kg)	300 lb. (136 kg)	300 lb. (136 kg)

SPECIFICATION	25AM	30AM	38AM
CE/UKCA/AUS: (Europe, Australia)	350 lb. (160 kg)	300 lb. (136 kg)	300 lb. (136 kg)
Platform Height - Mast Fully Extended - (Ground to Platform Floor):	25 ft. (7.62 m)	30 ft. (9.14 m)	38 ft. (11.58 m)
Platform Working Height - (Average Size Person):	31 ft. (9.4 m)	36 ft. (11 m)	44ft.) (13.4 m)
Platform Cycle Performance-(in seconds)(w/max. rated load)			
Pump - Lift Up:	62	72	120
Lift Down:	32-42	32-42	45-55

7.2.5 Machine Component Weights

SPECIFICATION	25AM	30AM	38AM
Platform Weight: Standard Platform:	55 lb. (25 kg)		
DC Voltage Battery Pack: (Wet Cell)	70 lb.(32 kg)		

7.2.6 Serial Number Locations

For machine identification, a serial number plate is affixed to the machine. The plate is located on the back of the mast, just above the mast support bracket.

7.3 OPERATOR MAINTENANCE

7.3.1 Lubrication

Hydraulic Oil (HO)

HYDRAULIC SYSTEM OPERATING TEMPERATURE RANGE	SAE VISCOSITYGRADE
+0°F to +180° F (-18° C to -83° C)	10W
+0°F to +210°F (-18°C to +99°C)	10W-20, 10W-30
+50° F to +210° F (+10° C to +99° C)	20W-20

Hydraulic oils must have anti-wear qualities at least to API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service. JLG Industries, recommends standard UTTO hydraulic oil, which has an SAE viscosity of 10W- 30 and a viscosity index of 152.

For cold weather applications, i. e. when temperatures remain consistently below +20°F (–7°C) JLG recommends using Mobil DTE 13 hydraulic oil.

Aside from JLG recommendations, it is not advisable to mix oils of different brands or types, as they may not contain the same required additives or be of comparable viscosities. If use of hydraulic oil other than standard UTTO is desired, contact JLG Industries for proper recommendations.

Table 8. Lubrication Specifications

KEY	SPECIFICATIONS
MPG-	Multipurpose Grease having a minimum dripping point of 350° F. Excel- lent water resistance and adhesive qualities, and being of extreme pres- sure type. (Timken OK 40 pounds minimum.)
EPGL-	Extreme Pressure Gear Lube (oil) meeting API service classification GL-5 or MIL- Spec MIL-L-2105.
HO-	Hydraulic Oil. ISO-Vg grade 32, 46.
CL-	Chain Lube. Use a good quality chain lubricant.

Note: Refer to Lubrication Chart, [Table — Lubrication Intervals for Various Components, page 67](#) for specific lubrication locations on machine.

7.3.2 Battery Maintenance

Note: This information applies to wet cell batteries only. Do not attempt to open a maintenance-free sealed battery.

Battery fluid level should be approximately 1/8" (3mm) below vent tubes. (See Illustration)

Keep cable connections clean and free of corrosion.

CAUTION

Battery acid is highly corrosive. Avoid contact with skin and clothing at all times.

Battery acid releases an explosive gas while charging, allow no open flames, sparks or lighted tobacco products in the area while charging batteries. Charge batteries only in a well ventilated area.

Add only distilled water to batteries. When adding distilled water to the batteries, a non-metallic container and/or funnel must be used.

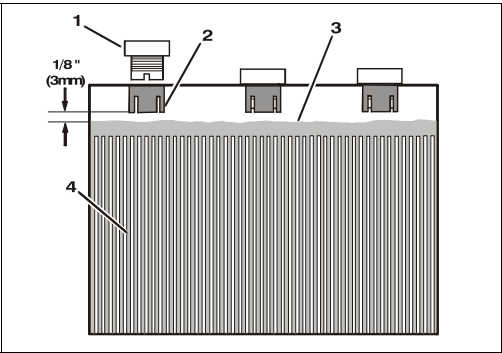
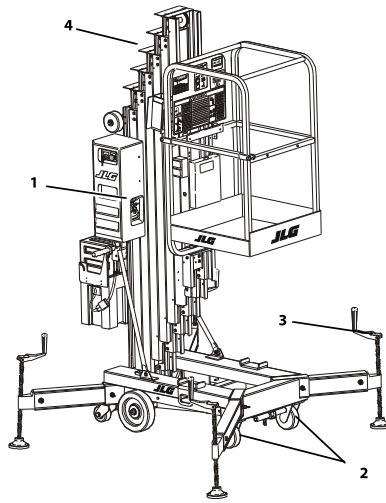


Figure 17. Battery Fluid Level

1. Battery Filler Cap	3. Fluid Level
2. Vent Tube	4. Cell Plates


Table 9. Lubrication Intervals for Various Components

ITEM	COM- PO- NENT	NO/ TYPE LUBE POINTS	LUBE/ METH- OD	INTERVAL HOURS				COM- MENTS
				3 MONT- HS 150 Hrs.	6 MONT- HS 300 Hrs.	1 YEAR 600 Hrs.	2 YEA- RS 1200 Hrs	
1	Hy- draulic Oil	Fill To Line on Reser- voir 5 Qt. (4.3 L) Res- ervoir	HO/ Check Hydraul- ic Oil Level HO/ Change Hydraul- ic Oil				X	Check oil level every day. Change hydraulic oil every 2 years.
2	Swivel Race- ways	2 - Front Casters	MPG - Pressure Gun		X			
3	Level- ing Jack Screws	4 - Jack Threads	MPG - Brush		X			
4	Mast Chains *	2 - Per Section	CL - Brush or Spray		X			Inspect, lu- bricate if drying or rusting.

Table 9. Lubrication Intervals for Various Components (continued)

ITEM	COM- PO- NENT	NO/ TYPE LUBE POINTS	LUBE/ METH- OD	INTERVAL HOURS				COM- MENTS
				3 MONT- HS 150 Hrs.	6 MONT- HS 300 Hrs.	1 YEAR 600 Hrs.	2 YEA- RS 1200 Hrs	
<p>* Applies Only to Mast Sections with Chains.</p> <p>Key to Lubricants:</p> <p>MPG - Multipurpose Grease</p> <p>HO - Hydraulic Oil - ISO-Vg grade 32, 46.</p> <p>CL - Chain Lube. Use a good quality chain lubricant.</p>								
Note- s:	<p>1. Be certain to lubricate like items on each side of the machine.</p> <p>2. Recommended lubricating intervals are based on normal use. If machine is subjected to severe operating conditions, such as a high number of cycles, location, corrosive/dirty environment, etc., user must adjust lubricating requirements accordingly.</p> <p>3. Lubricating intervals are calculated on 50 hours of machine operation a week.</p> <p>4. Prior to checking hydraulic oil level, operate machine through one complete cycle of lift function (full up and down). Failure to do so will result in incorrect oil level reading on the hydraulic reservoir.</p>							

7.4 SUPPLEMENTAL INFORMATION ONLY APPLICABLE TO CE/UKCA MACHINES

The following information is provided in accordance with the requirements of the European Machinery Directive 2006/42/EC or Supply of Machinery (Safety) Regulations 2008 No. 1597.

The A-Weighted emission sound pressure level at the work platform is less than 70dB(A).

The vibration total value to which the hand-arm system is subjected does not exceed 2,5 m/s². The highest root mean square value of weighted acceleration to which the whole body is subjected does not exceed 0.5 m/s².

7.5 EC DECLARATION OF CONFORMITY

Manufacturer
JLG Industries, Inc.

Address
1 JLG Drive
McConnellsburg, PA 17233 USA

Technical File
JLG EMEA B.V.
Polaris avenue 63,
2132 JH Hoofddorp
The Netherlands

Contact/Position
Senior Manager — Product Safety & Reliability

Date/Place
Hoofddorp, Netherlands

Machine Type
Mobile Elevating Work Platform

Model Type
25AM, 30AM, 38AM

EC-Number
2842

Certificate Number
KCEC4431

Notified Body
Kuiper Certificering b.v.

Address
Van Slingelandtsstraat 75, 7331 NM
Apeldoorn, The Netherlands

Reference Standards

- EN 55011:2009/A1:2010
- EN 61000-6-2:2005
- EN 60204-1:2018
- EN 280:2013+ A1:2015
- EN ISO 12100:2010

JLG Industries, Inc. hereby declares that the above mentioned machine conforms with the requirements of:

- 2006/42/EC — Machinery Directive
- 2014/30/EU — EMC Directive
- 2014/53/EU — RED Directive (If fitted with optional equipment)

Note: This declaration conforms with the requirements of annex II-A of the council directive 2006/42/EC. Any modification of the above described machine violates the validity of this declaration.

7.6 UKCA DECLARATION OF CONFORMITY

Manufacturer
JLG Industries, Inc.

Address
1 JLG Drive
McConnellsburg, PA 17233 USA

Technical File
JLG Industries UK Ltd
Braunstone Frith Industrial Estate
Unit 3 Sunningdale Road
Leicester, LE3 1UX
United Kingdom

Contact/Position
Director of Engineering — Europe

Date/Place
Leicester, United Kingdom

Machine Type
Mobile Elevating Work Platform

Model Type
25AM, 30AM, 38AM

AB-Number
0463

Certificate Number
AVUK4431

Approved Body
Amtri Veritas

Address
Pierce Street, Macclesfield, SK11 6ER, England

Reference Standards

- EN 55011:2009/A1:2010
- EN 61000-6-2:2005
- EN 60204-1:2018
- EN 280:2013+ A1:2015
- EN ISO 12100:2010

JLG Industries, Inc. hereby declares that the above mentioned machine conforms with the requirements of:

- 2008 No. 1597 - Supply of Machinery (Safety) Regulations 2008
- 2016 No. 1091 - Electromagnetic Compatibility Regulations 2016
- 2017 No. 1206 - Radio Equipment Regulations 2017 (if fitted with optional equipment)

Note: This declaration conforms with the requirements of annex II-A of the Regulations 2008 No. 1597. Any modification of the above described machine violates the validity of this declaration.

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