Operation & Safety Manual

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

E300AJP

PVC 2607

3122576600

July 13, 2026 - Rev A

ANSI **AS/NZS MOL70**

English (en-US)

⚠ 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.

This manual is originally written in English.

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.
13224 Fountainhead Plaza
Hagerstown, MD 21742
USA
or Visit www.jlg.com to find your local JLG office.

In USA:

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

Outside USA:

Phone: 240-420-2661
Fax: 301-745-3713
E-mail: ProductSafety@JLG.com

REVISION LOG

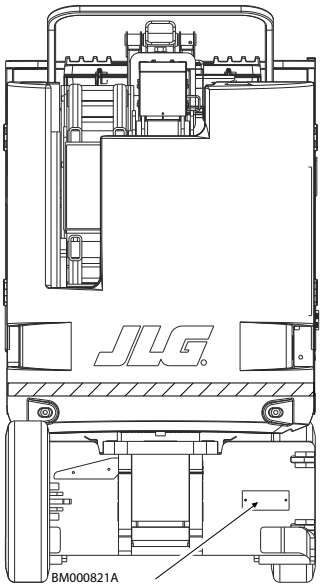
Date	Revision	Description
July 13, 2026	A	Original Issue

Other Publications Available

Publication	Publication Number
Service & Maintenance Manual	3122576700
Illustrated Parts Manual	3122576800

Serial Number Location

For machine identification, a serial number plate is affixed to the left rear of frame in front of left rear wheel.



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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”).

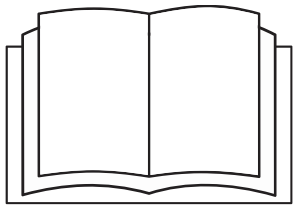
⚠ WARNING

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 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 recognizing 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.

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.
- 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 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

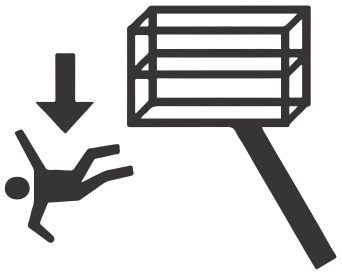
1.3.1 General

- 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.
- When two or more persons are in the platform, the operator shall be responsible for all machine operations.
- Always ensure that power tools are properly stowed and never left hanging by their cord from the platform work area.

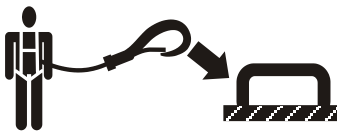
- When driving, always position boom over rear axle in line with the direction of travel. Remember, if boom is over the front axle, steer and drive functions will be reversed.
- Do not assist a stuck or disabled machine by pushing or pulling except by pulling at the chassis tie-down lugs.
- Fully lower 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 are closed and fastened in their proper position.



- During operation, occupants in the platform must wear a full body harness with a lanyard attached to an authorized lanyard anchorage point. Attach only one (1) lanyard per lanyard anchorage point.



Note: For machines covered under CE/UKCA certifications, the utilization of fall protection systems is limited to fall restraint devices.

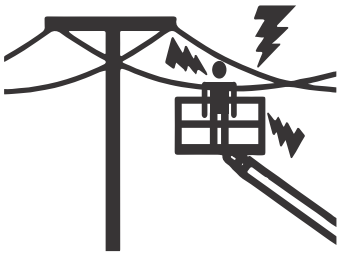
- Enter and exit only through gate area. Use extreme caution when entering or leaving platform. Ensure that the platform assembly is fully lowered. Face the platform when entering or leaving the platform. Always maintain “three point

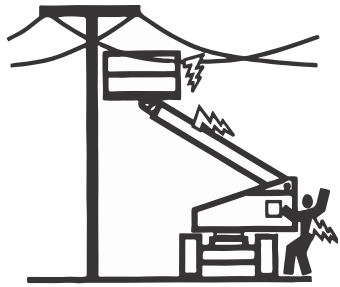
contact" with the machine, using two hands and one foot or two feet and one hand at all times during entry and exit.

- 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.
- Keep oil, mud, and slippery substances cleaned from footwear and the platform floor.

1.3.3 Electrocution 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 17*.
- 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.

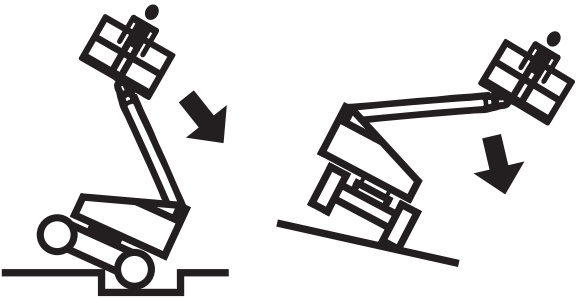
- Maintain a clearance of at least 10 ft (3m) between any part of the machine and its occupants, their tools, and their equipment from any electrical line or apparatus carrying up to 50,000 volts. One foot additional clearance is required for every additional 30,000 volts or less.
- The MAD may be reduced 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 tire load indicated on the tire 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 or drive with platform elevated 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 or driving with the platform in the elevated position.
- Before driving 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 (0.6m) 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 boom.
- 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 boom assembly or platform is in a position that one or more wheels are off the ground, all persons must be removed before attempting to stabilize the machine. Use cranes, forklift trucks, or other appropriate equipment to stabilize machine.
- Do not operate the machine when wind conditions, including gusts, exceed 28 mph (12.5 m/s). Refer to *Table — Beaufort Scale (For Reference Only), page 19*. 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.
- Do not increase the platform size with unauthorized modifications or attachments.

⚠ 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)

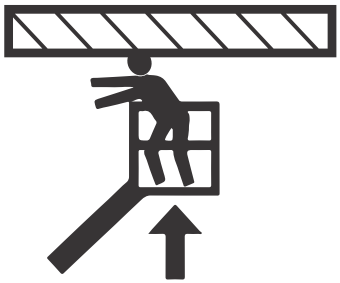
Beaufort Number	Wind Speed		Description	Land Conditions
	mph	m/s		
0	0	0-0.2	Calm	Calm. Smoke rises vertically
1	1-3	0.3-1.5	Light air	Wind motion visible in smoke
2	4-7	1.6-3.3	Light breeze	Wind felt on exposed skin. Leaves rustle
3	8-12	3.4-5.4	Gentle breeze	Leaves and smaller twigs in constant motion
4	13-18	5.5-7.9	Moderate breeze	Dust and loose paper raised. Small branches begin to move.

Table 2. Beaufort Scale (For Reference Only) (continued)

Beaufort Number	Wind Speed		Description	Land Conditions
	mph	m/s		
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 driving. Check clearances above, on sides, and bottom of platform during all operations.



- During operation, keep all body parts inside platform railing.
- Use the boom functions, not the drive function, to position the platform close to obstacles.
- Always post a lookout when driving 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.
- Be aware of stopping distances in all drive speeds. When driving in high speed, reduce drive speed before stopping. Travel grades in low speed only.

- Do not use high speed drive in restricted or close quarters or when driving in reverse.
- 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 TOWING, LIFTING, AND HAULING

- Never allow personnel in platform while towing, lifting, or hauling.
- This machine should not be towed, except in the event of emergency, malfunction, power failure, or loading/unloading. Refer to the Emergency Procedures section of this manual for emergency towing procedures.
- Ensure boom is in the stowed position and, if equipped, the turntable locked prior to towing, lifting or hauling. The platform must be completely empty of tools.
- When lifting machine, lift only at designated areas of the machine. Lift the unit with equipment of adequate capacity.
- Refer to the Machine Operation section of this manual for lifting information.

1.5 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.

1.5.1 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.
- Do not use machine as a ground for welding.
- When performing welding or metal cutting operations, precautions must be taken to protect the chassis from direct exposure to weld and metal cutting spatter.
- Do not refuel combustion engine-powered machines with the engine running.
- 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.

1.5.2 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.

- 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.

1.6 LONG-TERM STORAGE

- Prior to long-term storage of machines (placed into storage for periods greater than 3 months) with an internal combustion engine, refer to the engine manufacturer's guidance regarding fuel degradation.
- For long-term storage of battery-electric machines, store machines in a cool, dry place away from direct sunlight and heat sources. Avoid storing batteries in a fully discharged or fully charged state.

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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

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.

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 user's 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 machine inspections and maintenance required by JLG Industries, Inc. Consult local regulations for further requirements for MEWPs. 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.

Table 3. Inspection and Maintenance Table

Type	Frequency	Primary Responsibility	Service Qualification	Reference
Pre-Start Inspection	Before using each day; or whenever there is an Operator change	User or Operator	User or Operator	Operation & Safety Manual
Pre-Delivery Inspection (See Note)	Before each sale, lease, or rental delivery	Owner, Dealer, or User	Qualified JLG Mechanic	Service & Maintenance Manual and applicable JLG inspection form

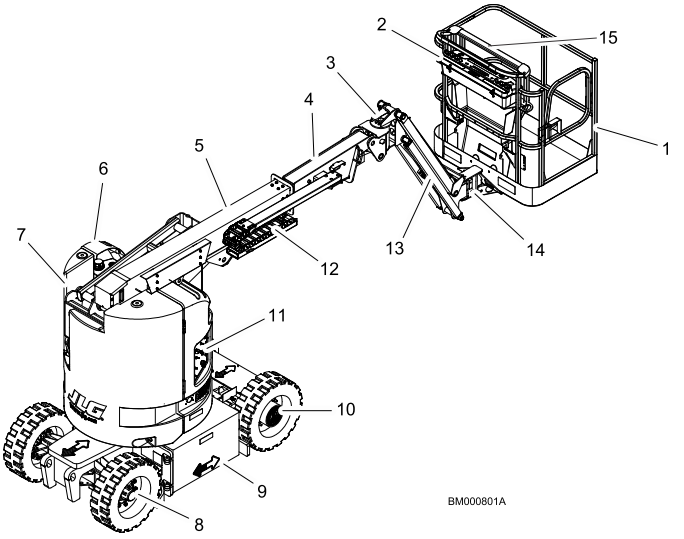
Table 3. Inspection and Maintenance Table (continued)

Type	Frequency	Primary Responsibility	Service Qualification	Reference
Frequent Inspection (See Note)	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 & Maintenance Manual and applicable JLG inspection form
Annual Machine Inspection (See Note)	Annually, no later than 13 months from the date of prior inspection	Owner, Dealer, or User	Factory-Trained Service Technician (Recommended)	Service & Maintenance Manual and applicable JLG inspection form
Preventive Maintenance	At intervals as specified in the Service & Maintenance Manual	Owner, Dealer, or User	Qualified JLG Mechanic	Service & Maintenance Manual
Note: Inspection forms are available from JLG. Use the Service & 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 specified JLG product model.

2.3 MACHINE COMPONENTS



1. Platform
2. Platform Control Station
3. Jib Rotator
4. Boom Fly Section
5. Main Boom
6. Turntable
7. Counterweight
8. Non-Drive Hub
9. Battery Box
10. Drive Hub
11. Ground Control Station
12. Powertrack
13. Jib
14. Platform Rotator
15. SkyGuard

2.4 PRE-START INSPECTION

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

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

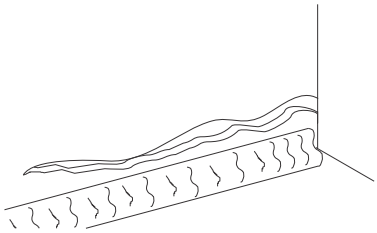


Figure 1. Parent Metal Crack

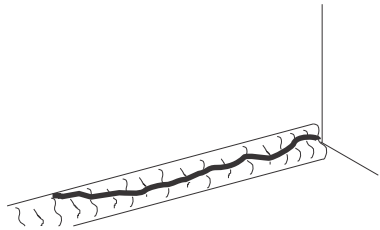


Figure 2. Weld Crack

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 Manuals** — Make sure a copy of the Operation 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.

5. **Walk-Around Inspection** — Perform as instructed.

6. **Battery** — Charge as required.

7. **Hydraulic Oil** — Check the hydraulic oil level. Ensure hydraulic oil is added as required.

8. **Accessories/Attachments** — Refer to the Accessories section in this manual or accessory installed upon the machine for specific inspection, operation, and maintenance instructions.

9. **Function Check** — Once the Walk-Around Inspection is complete, perform a functional check of all systems in an area free of overhead and ground level obstructions. Refer to Section 4, Machine Operation for more specific instructions.

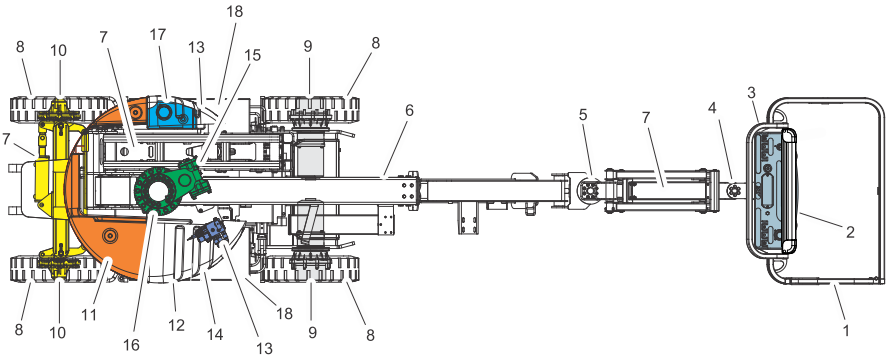
10. **Platform Gate** — Keep gate and surrounding area clean and unobstructed. Verify the gate closes properly and is not bent or damaged. Keep gate closed at all times except when entering/exiting the platform and loading/unloading materials.

11. **Lanyard Attach Points** — During operation, occupants in the platform must wear a full body harness with a lanyard attached to an authorized lanyard anchorage point. Attach only one (1) lanyard per lanyard anchorage 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.

2.5 WALK-AROUND INSPECTION



OAC00281

Begin the Walk-Around Inspection at Item 1, as noted on the diagram. Continue checking each item in sequence for the conditions listed in the following checklist.

⚠ WARNING

To avoid possible injury, be sure machine power is off. Do not operate machine until all malfunctions have been corrected.

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 all components, make sure there are no loose or missing parts, that they are securely fastened, and no visible damage, leaks or excessive wear exists in addition to any other criteria mentioned.

1. **Platform Assembly and Gate** - Footswitch works properly, not modified, disabled or blocked. Gate latches and hinges in working condition.
2. **SkyGuard** - See Inspection Note.
3. **Platform Control Console** - Switches and levers return to neutral when activated and released, decals/placards secure and legible, control markings legible.
4. **Platform Rotator** - See Inspection Note.
5. **Jib Assembly and Jib Rotator (If Equipped)** - See Inspection Note.
6. **Boom Sections/Uprights/Turntable** - See Inspection Note.

7. **All Hydraulic Cylinders** - No visible damage; pivot pins and hydraulic hoses undamaged, not leaking.
8. **Wheel/Tire Assemblies** - Properly secured, no missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies. Inspect wheels for damage and corrosion.
9. **Drive Motor, Brake, and Hub** - No evidence of leakage.
10. **Tie Rod Ends and Steering Spindles** - See Inspection Note.
11. **Counterweight** - See Inspection Note.
12. **Ground Control Console** - Switches and levers return to neutral when activated and released, decals/placards secure and legible, control markings legible.
13. **Hood Assemblies** - See Inspection Note.
14. **Manual Descent** - See Inspection Note.
15. **Swing Motor and Worm Gear** - No evidence of damage.
16. **Turntable Bearing** - Evidence of proper lubrication. No evidence of loose bolts or looseness between bearing and machine.
17. **Hydraulic Pump and Reservoir** - See Inspection Note.
18. **Battery Compartment** - Batteries have proper electrolyte level; cables tight; see Inspection Note.

2.6 FUNCTION CHECK

⚠ WARNING

To avoid serious injury, do not operate machine if any control levers or toggle switches controlling platform movements do not return to the off position when released.

⚠ WARNING

To avoid a collision and injury if platform does not stop when a control switch or lever is released, remove foot from footswitch or use emergency stop to stop machine.

Perform the Function Check as follows:

1. From the ground control console with no load in the platform:
    a. Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
    b. Ensure all functions stop when the function switch is released.
    c. Operate all functions and ensure proper operation.
    d. Ensure proper operation of the manual descent controls, as described in Section 5 of this manual.
2. From the platform control console:
    a. Ensure that the control console is firmly secured in the proper location.
    b. Check that all guards protecting the switches or locks are in place.
    c. Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
    d. Ensure that all machine functions stop when the footswitch is released.
    e. Operate all functions and ensure proper operation.
3. With the platform in the stowed position:
    a. Drive the machine on a grade, not to exceed the rated gradeability, and stop to ensure the brakes hold.
    b. Check that the tilt indicator is illuminated to ensure proper operation.
4. Swing the boom over either of the rear tires and ensure that the Drive Orientation indicator illuminates and that the Drive Orientation Override switch must be used for the drive function to operate.
5. With the machine positioned on a smooth, firm surface within the limits of the maximum operating slope, elevate the boom 3 degrees or greater above horizontal. Select high speed drive mode. Carefully attempt to drive and ensure the drive speed is reduced.

2.7 SKYGUARD® FUNCTION CHECK

From the Platform Control Station in an area free from obstructions:

1. Operate the telescope-out function.
2. Activate the **SkyGuard SkyLine®** sensor by pressing rod to break connection between the rod and the right bracket.

3. Once the sensor has been activated, verify the following conditions:
   a. Telescope-out function stops and telescope-in function operates for a short duration.
   b. The horn sounds.
   c. If equipped with a configured ClearSky CS550 or SkyGuard beacon, the beacon illuminates.

Note: If SkyGuard is enabled with the Soft Touch system, functions will cut out instead of reversing.

4. Release controls, reattach the rod to the right bracket and recycle the foot switch. Make sure normal operation is available.

If SkyGuard remains activated after function reversal or cutout, press and hold the SkyGuard Override Switch to allow normal use of machine functions until the sensor is deactivated.

Refer to the SkyGuard Activation/Deactivation section for additional information.

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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

Note: The indicator panels use different shaped symbols to alert the operator to different types of operational situations that could arise. The meaning of those symbols are explained below.



Indicates a potentially hazardous situation, which if not corrected, could result in serious injury or death. This indicator will be red.

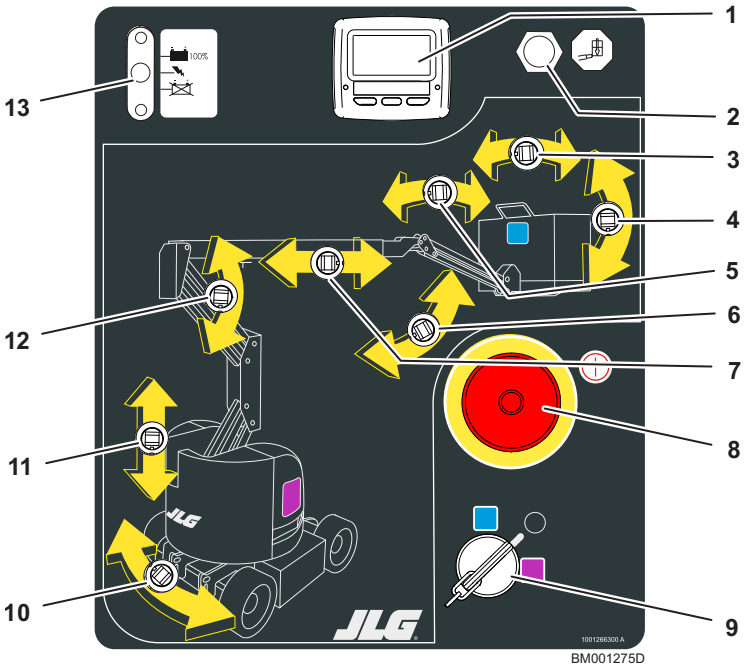


Indicates an abnormal operating condition, which if not corrected, may result in machine interruption or damage. This indicator will be yellow.



Indicates important information regarding the operating condition, i.e. procedures essential for safe operation. This indicator will be green with the exception of the capacity indicator which will be yellow.

3.3 GROUND CONTROL STATION



1. Multifunction Display
2. Platform Overload
3. Platform Rotate
4. Platform Level
5. Jib Swing
6. Jib Lift
7. Main Boom Telescope
8. Power/Emergency Stop
9. Platform/Ground Select
10. Swing
11. Lower Boom Lift
12. Main Boom Lift
13. Battery Charge Status

Figure 3. E300AJP Ground Control Station

3.3.1 Ground Control Station Functions

⚠ WARNING

When operating the boom ensure there are no personnel around or under platform.

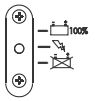
⚠ WARNING

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.

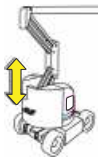
Note: When machine is shut down the Platform/ Ground Select switch and Emergency Stop must be positioned to Off.
To operate machine from the platform, the Platform/Ground Select switch must be turned to the blue square.
To operate the machine from the ground, the Platform/Ground Select switch must be turned to the purple square.



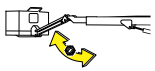
Battery Charge Status
A single LED light indicates charge status of battery. **Green** indicates full charge (100%). **Amber** indicates charge cycle in process. **Red** indicates charger fault or abnormal battery condition.



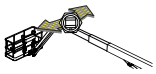
Lower Boom Lift
Provides raising and lowering of the upright and lower booms.



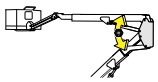
Jib
Provides raising and lowering of the jib.



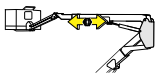
Jib Swing
Provides swinging of the jib.



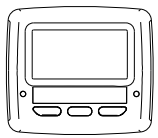
Main Boom Lift
Provides raising and lowering of the main boom.



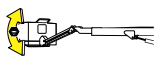
Main Boom Telescope
Provides extension and retraction of the main boom.



Multifunction Display
Registers machine hours and Diagnostic Trouble Codes (DTCs) from the JLG Control System.



Platform Leveling Override Switch
A three position switch allows the operator to adjust the automatic self leveling system. This switch is used to adjust platform level in situations such as ascending/descending a grade.



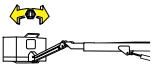
⚠ WARNING

Only use the platform leveling override function for slight leveling of the platform. Incorrect use could cause the load/occupant to shift or fall. Failure to do so could result in death or serious injury.

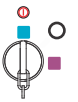
Platform Overload
Indicates the platform has been overloaded.



Platform Rotate
Provides rotation of the platform.



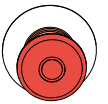
Platform / Ground Select Switch
The three position, key operated switch supplies power to the platform control console when positioned to Platform. With the switch key turned to the Ground position only ground controls are operable.



Note: When the Platform/Ground Select Switch is in the center position, power is shut off to the controls at both operating stations. Remove the key to prevent the controls from being actuated.



Power / Emergency Stop Switch
A two-position red mushroom shaped switch supplies power to Platform/Ground Select switch when pulled out (On position). When pushed in (Off position), power is shut off to the Platform/Ground Select switch.



Note: When Power/Emergency Stop switch is in the On position and engine is not running, an alarm will sound, indicating the ignition power is on.

NOTICE

Always position emergency stop switch to the Off position (pushed in) when machine is not in use.

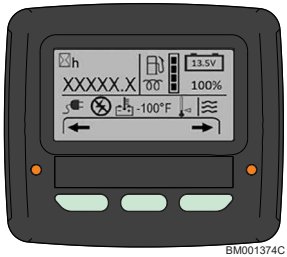
Swing
Provides 350 degrees non-continuous turntable rotation.



3.4 MULTIFUNCTION DISPLAY

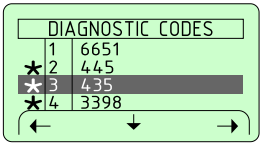
The multifunction display shows machine hours, battery level, and Diagnostic Trouble Codes (DTCs) from the JLG Control System (includes motor fault

information). During machine start up, with no active DTCs in the control system, the splash screen will show for 3 seconds and then switch to main screen. If there is an active DTC while powering up the machine, the splash screen will show for 3 seconds, and then launch the Diagnostics Screen. The indicator lamps will light when there is an active DTC in the Fault Log.



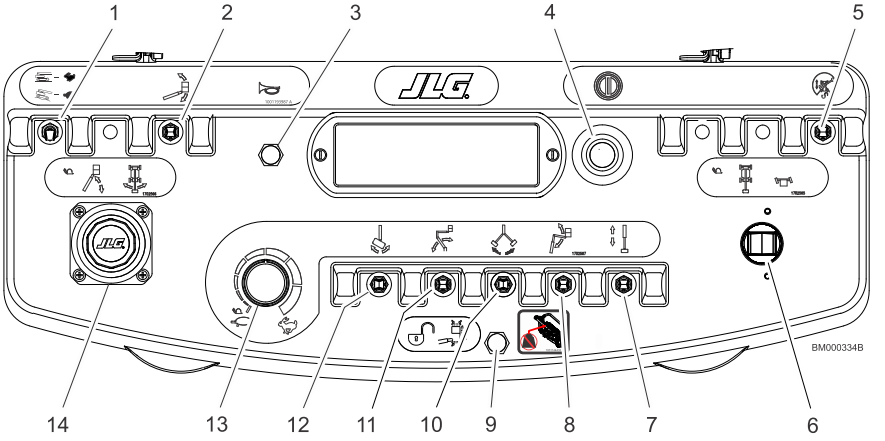
3.4.1 Multifunction Display Diagnostic Screen

The Diagnostic Screen will show active and inactive faults from the JLG Control System on the screen. An asterisk (*) will be displayed to show active faults.



If there is more than one DTC, exit from the individual DTC screen to select other active fault information.

3.5 PLATFORM CONTROL STATION



1. Drive Speed / Torque Select
2. Platform Level Override
3. Horn
4. Power / Emergency Stop
5. Drive Orientation Override
6. Drive / Steer
7. Main Boom Telescope
8. Jib
9. SkyGuard Override
10. Jib Swing
11. Lower Boom Lift
12. Platform Rotate
13. Function Speed Control
14. Main Lift / Swing Controller

3.5.1 Platform Control Station Functions

⚠ WARNING

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.

⚠ WARNING

Only use the platform leveling override function for slight leveling of the platform. Incorrect use could cause the load/occupants to shift or fall. Failure to do so could result in death or serious injury.

Drive Orientation Override

When the boom is swung over the rear tires or further in either direction, the Drive Orientation indicator will illuminate when the drive function is selected. Push and release the switch, and within 3 seconds move the Drive/Steer control to activate drive or steer. Before driving, locate the black/white orientation arrows on both the chassis and the platform controls. Move the drive controls in a direction matching the directional arrows for the intended direction of travel.



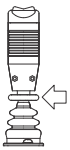
Note: Lift, Swing, and Drive control levers are spring-loaded and will automatically return to neutral (off) position when released.

⚠ WARNING

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.

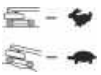
Note: To operate the Drive joystick, pull up on the locking ring below the handle.

Note: The Drive joystick is spring loaded and will automatically return to neutral (off) position when released.



Drive Speed / Torque Select

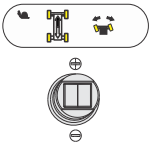
The machine has a two position switch - The forward position gives maximum drive speed. The back position gives maximum torque for rough terrain and climbing grades.



⚠ CAUTION

Do not operate machine if drive speed /torque select switch operates when boom is above horizontal.

Drive / Steer
Push forward to drive forward, pull back to drive in reverse. Steering is accomplished via a thumb-activated rocker switch on the end of the steer handle.



Function Speed Control
This control affects the speed of the Lower Boom Lift, Jib Swing, Jib Lift, Telescope, and Platform Rotate functions.

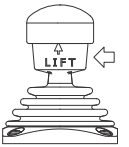


Note: During platform rotation, a speed difference may not be noticeable to the operator.

Turning the knob all the way counterclockwise until it clicks puts the machine into Creep Mode. Creep Mode puts the functions listed above, as well as the Drive/ Steer and Main Lift/Swing functions into the slowest speed setting.

Note: To operate the Main Boom Lift/Swing joystick, pull up on the locking ring below the handle.

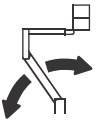
Note: The Main Boom Lift/Swing joystick is spring loaded and will automatically return to neutral (Off) position when released.



⚠ CAUTION

Do not operate machine if function speed switch operates when boom is above horizontal.

Lower Boom Lift
This switch provides for raising and lowering of the Tower Boom when positioned to the up or down positions. Tower Lift must be fully elevated (in the up position) before operating Tower Telescope.



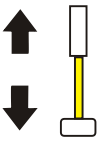
Jib Lift
Provides raising and lowering of the upright and lower booms.



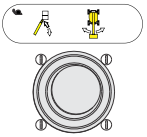
Jib Swing
Allows the operator to swing the jib to the left or right.



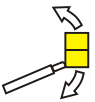
Main Boom Telescope
Provides extension and retraction of the main boom.



Main Lift / Swing Controller
Provides main lift and swing. Push forward to lift up, pull backward to boom down. Move right to swing right, move left to swing left.



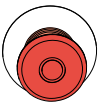
Platform Level Override
A three position switch allows the operator to adjust the automatic self leveling system. This switch is used to adjust platform level in situations such as ascending/descending a grade.



Platform Rotate
Provides rotation of the platform.



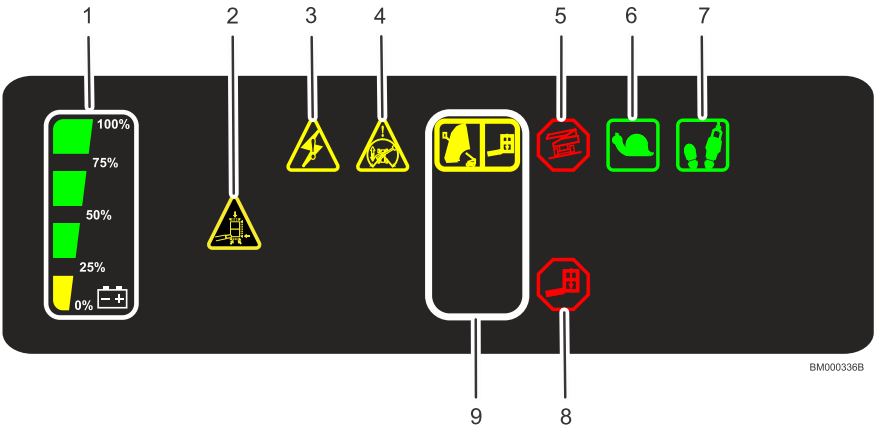
Power / Emergency Stop
A two-position red mushroom shaped switch furnishes power to Platform Controls when pulled out (On). When pushed in (Off), power is shut off to the platform functions.



SkyGuard Override
The SkyGuard override switch enables functions cut out by the SkyGuard system to be operated again, allowing the operator to resume use of machine functions.



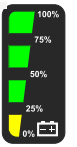
3.6 PLATFORM CONTROL INDICATOR PANEL



1. Battery Charge Level
2. SkyGuard Indicator
3. System Distress
4. Drive Orientation
5. Tilt alarm / Warning
6. Creep Speed
7. Footswitch Enable
8. Platform Overload
9. Capacity Zone Indicator

3.6.1 Platform Control Indicator Panel Functions

Battery Charge Level
Indicates the state-of-charge of the battery pack.



Capacity Zone Indicator
Indicates the maximum platform capacity zone for the current position of the platform. Restricted capacities are permitted at restricted platform positions (shorter boom lengths and higher boom angles).



Creep Speed
When the Function Speed Control is turned to the creep position, the indicator acts as a reminder that all functions are set to the slowest speed.



Drive Orientation
When the boom is swung beyond the rear drive tires or further in either direction, the Drive Orientation indicator will illuminate when the drive function is selected. This is a signal for the operator to verify that the drive control is being operated in the proper direction (i.e., controls reversed situations).



Footswitch Enable
To operate any function, the footswitch must be pressed down and the function selected within seven seconds. The enable indicator shows that the controls are enabled. If a function is not selected within seven seconds, or if a seven second lapse between ending one function and beginning the next function, the enable light will go out and the footswitch must be released and pressed again to enable the controls.
Releasing the footswitch removes power from all controls and stops all functions.



⚠ WARNING

To avoid serious injury, do not remove, modify, or disable the footswitch by blocking or any other means.

Platform Overload
Indicates the platform has been overloaded.



SkyGuard Indicator
The SkyGuard override switch enables functions cut out by the SkyGuard system to be operated again, allowing the operator to resume use of machine functions.



System Distress
The light indicates that the JLG Control System has detected an abnormal condition and a Diagnostic Trouble Code has been set in the system memory. Refer to the Service Manual for instructions concerning the trouble codes and trouble code retrieval.



Tilt Warning Light and Alarm
This red illuminator indicates that the chassis is on a slope. If the boom is above horizontal and the machine is on a slope, the tilt alarm warning light will illuminate, an alarm will sound, available functions are placed in Creep speed, and drive is cut out in direction of travel. Drive in the opposite direction may be allowed under certain conditions.

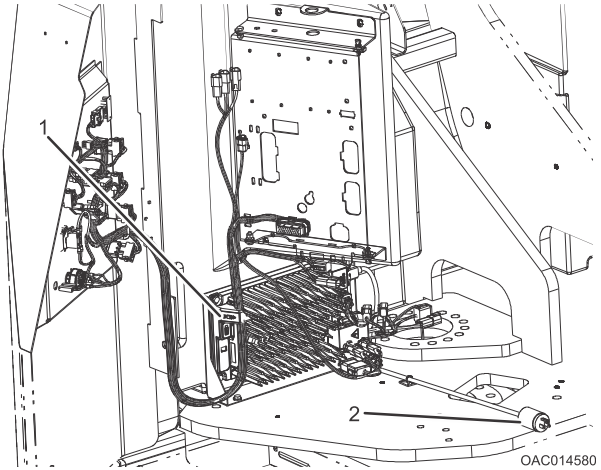


Tilt Angle	Market
3°	All Markets

⚠ WARNING

If tilt warning light is illuminated when boom is raised or extended, retract and lower to below horizontal then reposition machine so that it is within the limits of the maximum operating slope before extending boom or raising boom above horizontal.

3.7 BATTERY CHARGER



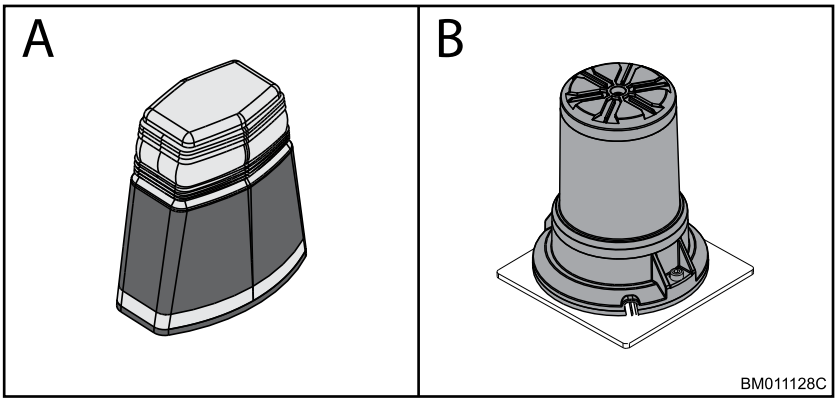
1. LED Indicator Panel on Charger (Under Hood)
2. AC Input Plug (Rear of Machine)

Note: Some components removed for clarity.

1. **LED Indicator on Charger**
   - **AC Power On:** Blue LED on
   - **Low State of Charge:** Bottom Panel — Green LED flashing; Top Panel — Green LED off
   - **High State of Charge:** Bottom Panel — Green LED on; Top Panel — Green LED flashing
   - **Charge Complete:** Bottom Panel — Green LED on; Top Panel — Green LED on
   - **Fault Indicator:** Red LED on
   - **External Error Condition Caution:** Amber LED flashing

2. **LED Indicator on Ground Control Station**
   - **Full Charge (100%):** LED is green
   - **Charge Cycle in Process:** LED is amber
   - **Abnormal Battery Condition/Charger Fault:** LED is red

3.8 BEACONS



A. LED Motion / Amber Beacon (CS550) B. Beacon

Note: Image for reference only. Beacon design may vary based on beacon type, machine model and installation location.

3.8.1 ClearSky® LED Motion / Amber Beacon (CS550)

The ClearSky® CS550 is installed on ClearSky Smart Fleet™ equipped machines.

The CS550 can function as a machine beacon using multiple colors and flash patterns for communication and identification purposes. In addition to amber, colors include: red, blue, green, cyan, and white. The ClearSky Smart Fleet mobile app can command visual alerts or audible alarms to assist in machine identification. Where applicable, the CS550 can also be configured to function as a SkyGuard Beacon (see below).

The CS550 also functions as a visible connectivity point for ClearSky Smart Fleet. Refer to the ClearSky Smart Fleet section for more information.

3.8.2 Amber Beacon

This amber-colored beacon flashes in a consistent pattern to alert those nearby that the machine power is on. The device may also use different flash patterns to identify specific machine alerts.

3.8.3 Blue or Red SkyGuard® Beacon

The SkyGuard beacon is available in blue or red lamp options. The beacon will flash in conjunction with an audible alarm when the SkyGuard sensor is activated.

Refer to the SkyGuard Operation section for more information.

SECTION 4
Machine Operation

4.1 GENERAL

This machine is a mobile elevating work platform used to position personnel, along with their necessary tools and materials at work locations.

The primary operator control station is in the platform. From this control station, the operator can drive and steer the machine in both forward and reverse directions. The operator can raise or lower the boom or swing the boom to the left or right. Standard boom swing is 350° non-continuous. The machine has a Ground Control Station which will override the Platform Control Station. Ground Controls operate all functions except drive and steer. Except for performing inspections and the Function Check, the ground controls are to be used in an emergency to lower the platform to the ground should the operator in the platform be unable to do so.

4.2 OPERATING CHARACTERISTICS AND LIMITATIONS

4.2.1 Operating Conditions

The boom can be raised above horizontal with or without any load in platform, if:

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.
4. Machine is as originally equipped from JLG.

4.2.2 Platform Load Sensing System (LSS)

The Platform Load Sensing System (LSS) measures platform load from a sensor in the platform support.

If the LSS senses an overload condition, the overload alarm will sound, the overload indicator will light up at both the platform control and the ground control stations, and all boom functions will be disabled. To regain boom control, reduce the load in the platform to not exceed the rated workload indicated on the capacity decal. If unable to resolve the overload condition, auxiliary power may be used to return the platform to a safe working condition. See Emergency Operation section.

4.3 STABILITY

Machine stability is based on two (2) conditions which are called Forward and Backward stability. The machine's position of least Forward stability is shown in (See *Figure — Position of Least Forward Stability*) and its position of least Backward stability is shown in (See *Figure — Position of Least Backward Stability*)

⚠ WARNING

To avoid forward or backward tipping, do not overload machine or operate the machine beyond the limit of the maximum operating slope.

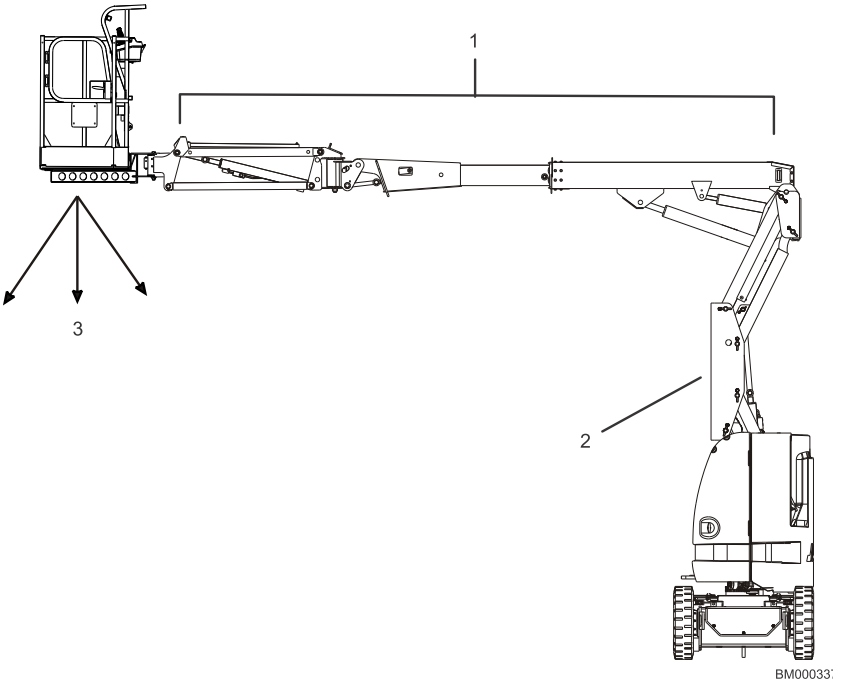


Figure 4. Position of Least Forward Stability

1. Main boom is fully extended and horizontal.
2. Lower boom is fully elevated.
3. Machine will tip over in the direction if overloaded or operated beyond the limits of the maximum operating slope.

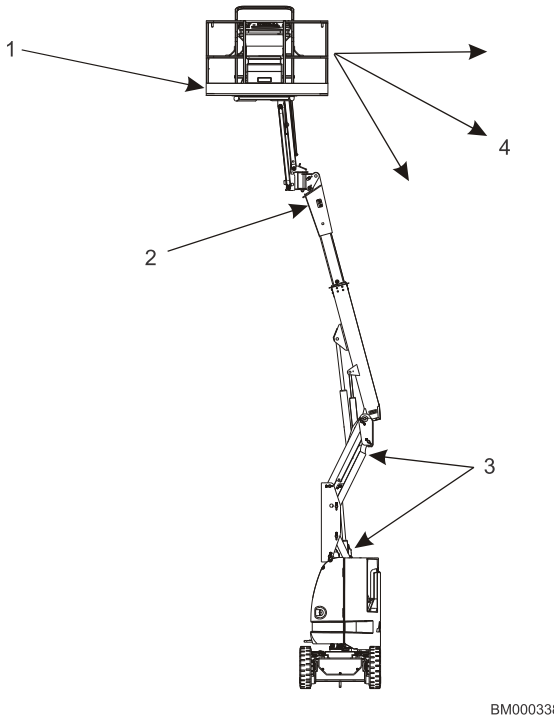


Figure 5. Position of Least Backward Stability

1. Platform rotated 90°.
2. Main boom fully elevated and fully retracted.
3. Lower boom fully elevated.
4. Machine will tip over in the direction if overloaded or operated beyond the limits of the maximum operating slope.

4.4 MOTOR OPERATION

4.4.1 Power/Emergency Stop

This red mushroom-shaped switch provides battery power to the Platform/Ground Select switch when pulled out (On) for all machine functions. The switch should be pushed in (Off) when recharging the batteries or parking the machine overnight.



4.4.2 Platform/Ground Select Switch

The Platform/Ground Select switch functions to direct battery power to the desired control station when the Power/Emergency Stop switch is pulled out (On). With the switch in the Ground position, battery power is supplied to the ground control station. When the switch is in the Platform position, battery power is supplied to the platform control station.



4.4.3 Motor Activation

NOTICE

Footswitch must be depressed prior to activating any function, otherwise function will not operate.

The motor becomes activated and operates the desired function when the Emergency Stop switch is pulled out (On), the Platform/ Ground select switch is in the appropriate position and the footswitch is depressed.

⚠ CAUTION

If a motor malfunction necessitates unscheduled shutdown, determine and correct cause before resuming any operation.

NOTICE

Always position emergency stop switch to the Off position (pushed in) when machine is not in use.

4.5 BATTERY CHARGING

Note: Park the machine in a well-ventilated area before charging.

1. Connect the charger AC input plug to a grounded outlet using a 3 wire heavy duty extension cord.
2. The charge cycle is complete when the single LED light on the ground control panel turns green. Additionally, the green LEDs on the top and bottom panels of the battery charger illuminates.

⚠ CAUTION

Only plug the charger into a properly installed and grounded outlet. Do not use ground adapters or modify plug in any way. Do not touch non-insulated portion of output connector or non-insulated battery terminal.

Do not operate charger if the AC supply cord is damaged, or if the charger has received a sharp blow, been dropped, or otherwise damaged in any way.

Always disconnect the charger AC supply before making or breaking the positive/ negative connections to the battery.

Do not open or disassemble charger.

4.6 INVERTER

The inverter converts 48 VDC to 110 VAC to allow operation of power tools from the machine's batteries.

- The inverter is operational when the emergency stop switch is pulled out.
- The machine and inverter can be operated at the same time.
- The inverter will shut off at approximately 42 VDC and stay off until the emergency stop switch is recycled. It will operate again until voltage drops to 42 VDC.
- The machine will operate down to 36 VDC.
- The inverter will shut down if the high temperature light indicated overheating. It will automatically turn back on when cooled.
- The overload light indicates an output wiring short circuit or a load that is too large for the rating of the inverter.

4.7 TRAVELING (GRADE/SIDE SLOPE)

Note: Refer to the Operating Specifications table for gradeability and side slope ratings.

All ratings for gradeability and side slope are based upon the machine's boom being in the stowed position, fully lowered, and retracted.

Traveling is limited by two factors:

1. Gradeability, which is the percent of grade of the incline the machine can climb.
2. Side slope, which is the angle of the slope the machine can be driven across.

4.7.1 Traveling on a Grade

When traveling a grade, maximum braking and traction are obtained with the boom stowed, in position over the rear (drive) axle, and in line with the direction of travel. Drive the machine forward when climbing a grade, and in reverse when descending a grade. Do not exceed the machine's maximum rated gradeability.

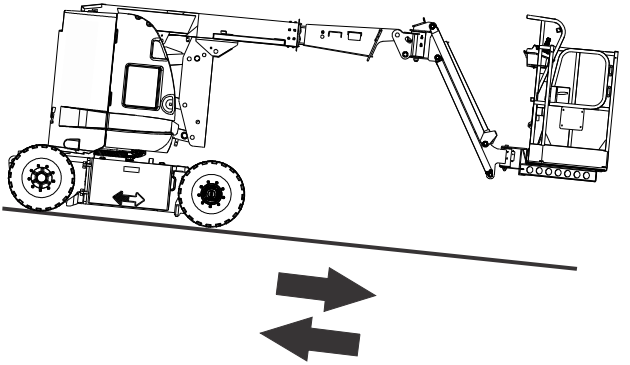


Figure 6. Traveling on a Grade

NOTICE

If the boom is over the front (steer) axle, direction of steer and drive movement will be opposite from the movement of the controls.

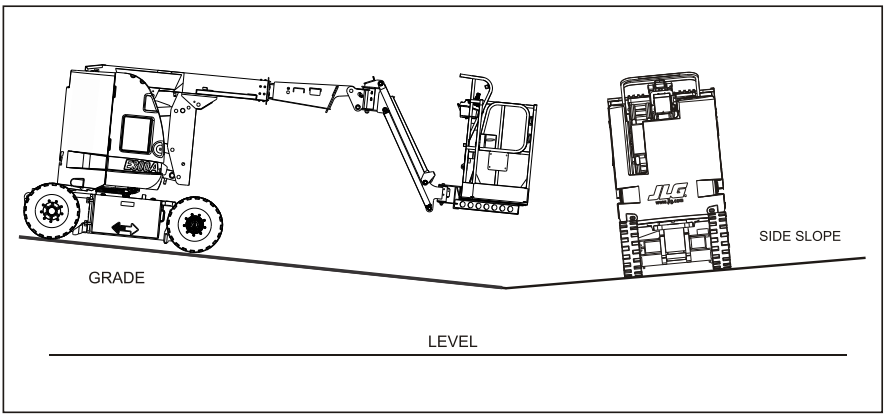


Figure 7. Grade and Side Slope

4.8 TRAVELING (DRIVING)

⚠ WARNING

Do not drive with boom above horizontal except on a smooth, firm surface within the limits of the maximum operating slope.

⚠ WARNING

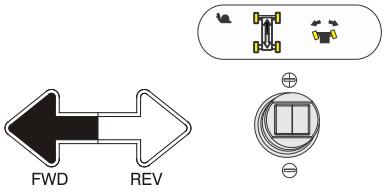
Do not drive on side slopes which exceed 3 degrees.

To avoid loss of travel control or tip over, do not drive machine on grades exceeding those specified in the operating specifications section of this manual.

⚠ WARNING

Use extreme caution when driving in reverse and at all times when the platform is elevated.

Before driving, locate the black/white orientation arrows on both the chassis and the platform controls. Move the drive controls in a direction matching the directional arrows for the intended direction of travel.



4.8.1 Traveling Forward and Reverse

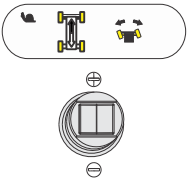
NOTICE

Footswitch must be depressed prior to activating any function, otherwise function will not operate.

1. At Platform Controls, pull out Emergency Stop switch, start engine, and activate footswitch.

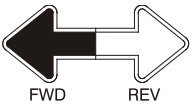


2. Position Drive controller to forward or reverse as desired.



This machine is equipped with a Drive Orientation Indicator. The yellow light on the platform control console indicates that the boom is swung beyond the rear drive tires and the machine may Drive/Steer in the opposite direction from the movement of the controls. If the indicator is illuminated, operate the Drive function in the following manner:

1. Match the black and white direction arrows on both platform control panel and the chassis to determine the direction the machine will travel.



2. Push and release the Drive Orientation Override switch. Within 3 seconds, slowly move the Drive control toward the arrow matching the intended direction of machine travel. The indicator light will flash during the 3 second interval until the drive function is selected.



4.9 STEERING



Press footswitch. Position thumb switch on Drive/Steer controller to Right for steering right, or to Left for steering left.

4.10 PLATFORM

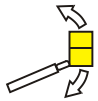
JLG offers multiple platform sizes to accommodate a variety of applications. Refer to the Illustrated Parts Manual for available platforms.

Not all platform options may be of adequate size to allow for the maximum number of rated occupants shown on the machine's capacity decal. The number of platform occupants may never exceed the number of available lanyard anchorage points. Attach only one (1) lanyard per lanyard anchorage point.

4.10.1 Platform Level Adjustment

⚠ WARNING

Only use the platform leveling override function for slight leveling of the platform. Incorrect use could cause the load/occupants to shift or fall. Failure to do so could result in death or serious injury.



During normal operation of the machine, the platform will automatically maintain its position. To manually level up or down, position the platform/level control switch up or down and hold until the platform is level.

4.10.2 Platform Rotation



To rotate the platform to the left or right, use the platform rotate control switch to select the direction and hold until the desired position is reached.

4.11 BOOM

⚠ WARNING

A red tilt warning light is located on the control console which lights when the chassis is on an excessive slope. Do not swing or raise boom above horizontal when light is lit.

Do not depend on tilt alarm as a level indicator for the chassis. Tilt alarm indicates chassis is on an excessive slope. Chassis must be level before swinging, or raising boom above horizontal or driving with the boom elevated.

To avoid tip over if red tilt warning lights light when the boom is raised above horizontal, lower platform to ground level. Then reposition machine so that chassis is level before raising boom.

Traveling with boom below horizontal is permitted on grades and side slopes specified on serial nameplate on the frame.

⚠ WARNING

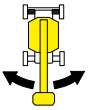
To avoid serious injury, do not operate machinery if any control lever or toggle switch controlling platform movement does not return to the ‘off’ or neutral position when released.

⚠ CAUTION

To avoid a collision and injury if platform does not stop when a control switch or lever is released, remove foot from footswitch or use emergency stop switch to stop the machine.

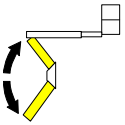
4.11.1 Swinging the Boom

To swing boom, use Swing control to select Right or Left direction.



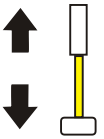
4.11.2 Raising and Lowering the Main Boom

To raise or lower the Lower and Mid Boom, position Main Boom Lift switch to UP or DOWN until desired height is reached.



4.11.3 Telescoping the Main Boom

To extend or retract the main boom, use the Main Telescope Control Switch to select IN or OUT movement.



4.12 FUNCTION SPEED CONTROL

This control affects the speed of the Lower Boom Lift, Jib Swing, Jib Lift, Telescope, and Platform Rotate functions.



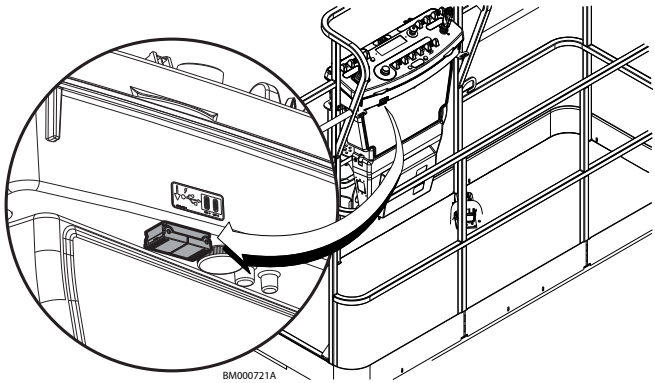
Note: During platform rotation, a speed difference may not be noticeable to the operator.

Turning the knob all the way counterclockwise until it clicks puts drive, main lift, tower lift, and swing into creep mode.
Creep Mode puts the functions listed above, as well as the Drive/Steer and Main Lift/Swing functions into the slowest speed setting.

4.13 USB DC POWER PORTS

Machines equipped with the Rapid Replaceable Platform have two USB ports for DC charging. One port accepts a USB-A connector and one port accepts a USB-C connector.

Access to the ports is under the left side of the platform control station.



4.14 AC POWER RECEPTACLE (IF EQUIPPED)

The machine platform may be equipped with an AC receptacle for operations requiring alternating current.

Access to the receptacle is under the platform control station.

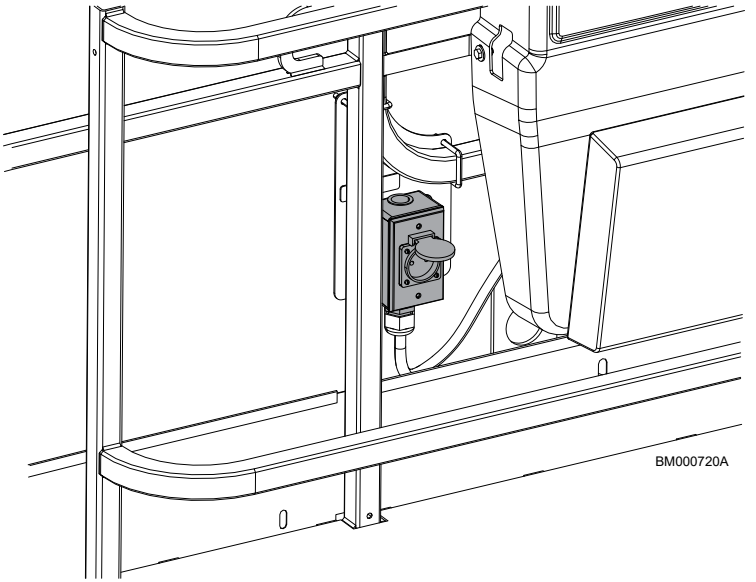


Figure 8. Platform Power — AC Power Receptacle

4.15 CLEARSKY SMART FLEET™

ClearSky Smart Fleet™ integrates on-machine hardware with web-based software and a mobile app to provide fleet management data and analytics. Personnel with the appropriate permissions can access telematics and machine identification data using a dashboard visible in the ClearSky Smart Fleet web portal or the ClearSky Smart Fleet mobile app. (Navigation and visual configuration may vary between the web portal or mobile app.)

Features include machine monitoring such as fuel level and battery charge, remote analyzer tasks including diagnostic trouble codes or system alerts, and access control (if available) restrictions.

Refer to the Access Control and Beacons sections of this manual for more information. Visit the ClearSky section of the JLG website for more resources and information about accessing web portal or mobile app data.

4.16 ACCESS CONTROL - CLEARSKY SMART FLEET™ (IF EQUIPPED)

NOTICE

Operator access to the machine may be placed into a restricted state remotely.

If a modification to a restricted state is required, contact the ClearSky Smart Fleet™ account owner. Only authorized personnel can make changes from within the web portal or mobile app.

This machine may be equipped with ClearSky Smart Fleet Access Control. Using the ClearSky Smart Fleet mobile app or web portal (remotely or locally), the machine can be placed into restricted states that limit machine functionality for all operators.

By using this machine, the operator acknowledges Access Control functionality, including restricted states, and accounts for it in their safe use plan.

Restricted states may include:

1. Speed Restricted — Machine is in Creep mode. See Operation section for more information on machine mode.
2. Speed and Function Restricted — Machine is in Creep mode and boom movement is restricted to transport position. In this state, once the boom reaches the transport position, it is not permitted to leave that defined position.
3. Locked Out — Machine has been locked out and will not operate (including engine start and auxiliary power, if applicable).

⚠ CAUTION

The Locked Out state will override the machine capability to use auxiliary power.

Note: Restricted functionality may occur if the CS550 (ClearSky® LED Motion / Amber Beacon) is damaged or removed. A protective cage is available through JLG.

Machines equipped with ClearSky Smart Fleet Access Control are also equipped with the CS550. Refer to the ClearSky Smart Fleet and Beacons sections of this manual for more information.

At time of publication, Access Control is not available for CE/UKCA markets.

4.17 SKYGUARD ACTIVATION/DEACTIVATION

SkyGuard provides enhanced protection at the Platform Control Station. When the SkyGuard sensor is activated, functions in use at the time of actuation will reverse or cutout. See SkyGuard Function Table.

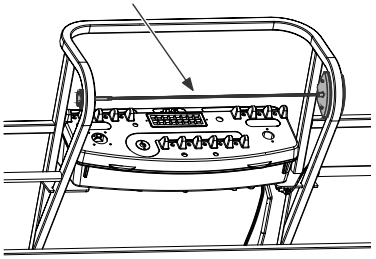


Figure 9. SkyGuard - SkyLine

To activate SkyGuard, the rod is pressed breaking the connection between the rod and right bracket.

During activation, the horn will sound and (if equipped and configured) a beacon will illuminate until sensor is reattached and footswitch is disengaged.

If SkyGuard activates inadvertently, release controls, reattach the rod to the right bracket and recycle the foot switch. Normal operation should resume.

If SkyGuard remains activated after rod reattachment, press and hold the SkyGuard Override Switch to allow functions to return the operator to the ground. Do not operate machine until the machine is inspected and any malfunctions are corrected.

Table 4. SkyGuard Function Table

Function	Reversal / Cutout
Drive Forward	R * / C **
Drive Reverse	R
Steer	C
Swing	R
Tower Lift Up	R
Tower Lift Down	C
Tower Telescope Out	C
Tower Telescope In	C
Boom Lift Up	R
Boom Lift Down	R
Boom Telescope Out	R
Boom Telescope In	C
Jib Lift (If equipped)	C
Platform Level	C

Table 4. SkyGuard Function Table (continued)

Function	Reversal / Cutout
Platform Rotate	C

R = Indicates Reversal is Activated; **C** = Indicates Cutout is Activated
* DOS (Drive Orientation System) Enabled
** DOS Not Enabled, machine is driving straight without steering, and any other hydraulic function is active
Note: If SkyGuard is enabled with the Soft Touch system, functions will cut out instead of reversing.

4.18 SHUT DOWN AND PARK

The preferred procedures to shut down and park the machine are as follows:

1. Drive machine to a reasonably well protected area.
2. Ensure boom is fully retracted and lowered over rear axle.
3. Shut down Emergency Stop at Platform Controls.
4. Shut down Emergency Stop at Ground Controls. Position Platform/Ground Select switch to center OFF (center position).
5. If necessary, cover Platform Controls to protect instruction placards, warning decals, and operating controls from hostile environment.

NOTICE

If parking a MEWP with the boom elevated in an effort to conserve space, booms may be elevated, but shall not be extended. It is the operator's responsibility to ensure all safety precautions in Section 1 of this manual are followed for each unique situation.

4.19 LIFTING AND TIE DOWN

4.19.1 Lifting

1. Refer to the Machine Serial Number Plate, call JLG Industries, or weigh the individual unit to find out the Gross Vehicle Weight.
2. Place the boom in the stowed position.
3. Remove all loose items from the machine.
4. Properly adjust the rigging to prevent damage to the machine and so the machine remains level.

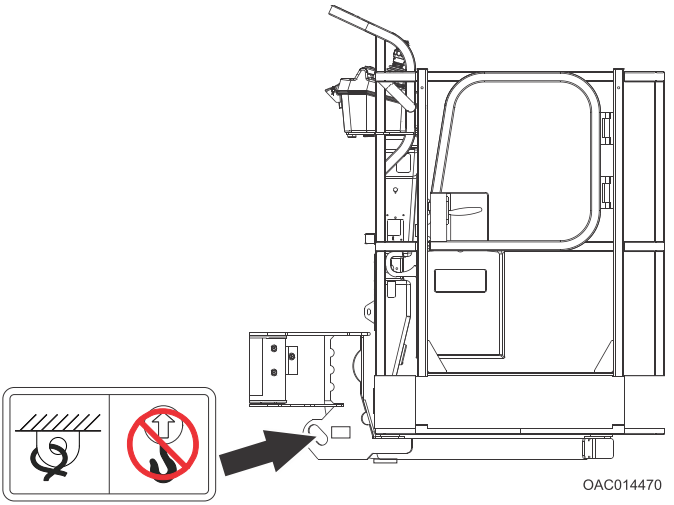
4.19.2 Tie Down

NOTICE

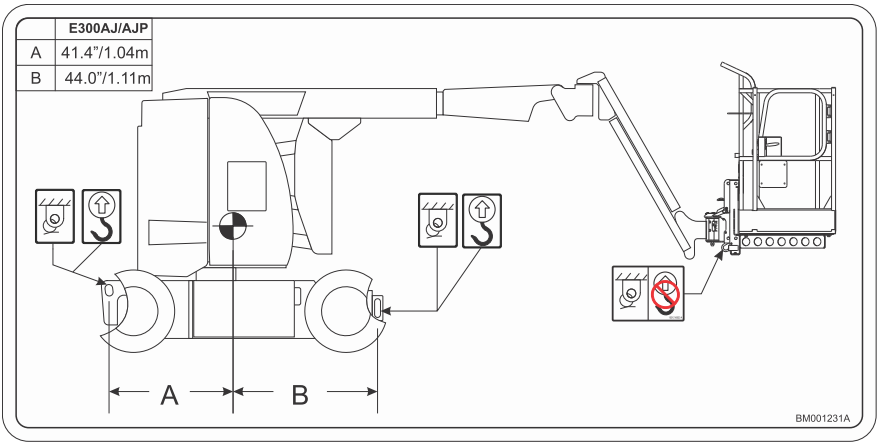
When transporting the machine, the boom must be fully lowered into the boom rest.

1. Place the boom in the stowed position.
2. Remove all loose items from the machine.
3. Secure the chassis using straps or chains of adequate strength.
4. Ensure the platform is lowered so the wear pad on the bottom rests on the surface of the transportation vehicle.

Note: Secure through the tie downs on the boom using straps or chains of adequate strength.



4.20 LIFTING CHART



4.21 E300AJP SAFETY DECALS

4.21.1 ANSI/ANSI Export/CSA/China/Japan Safety Decals

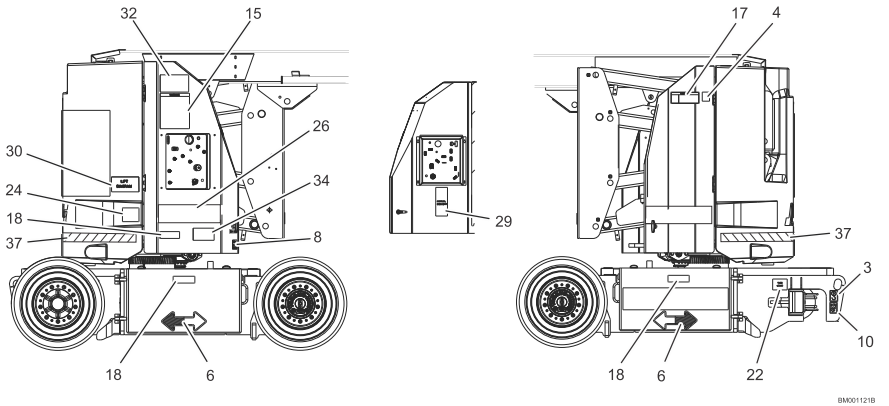


Figure 10. View 1 of 4

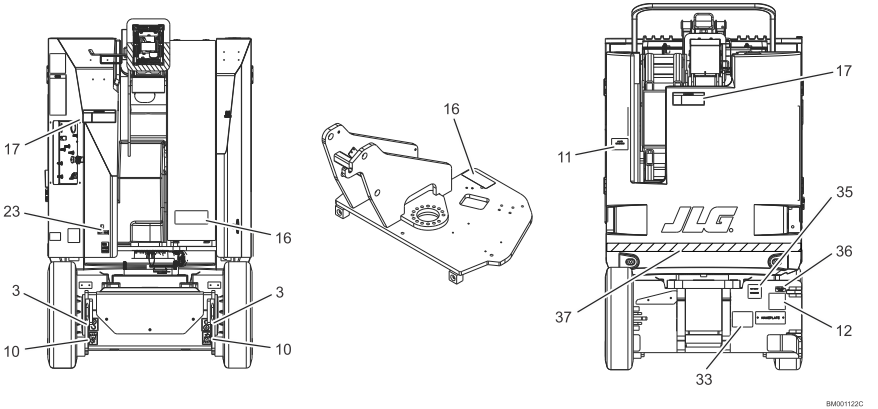


Figure 11. View 2 of 4

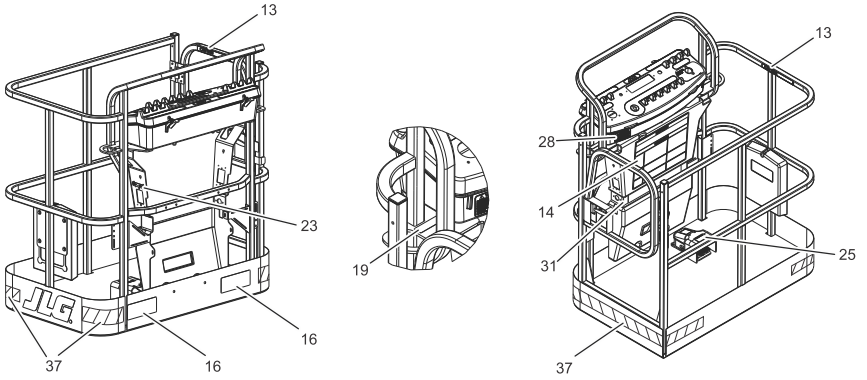


Figure 12. View 3 of 4

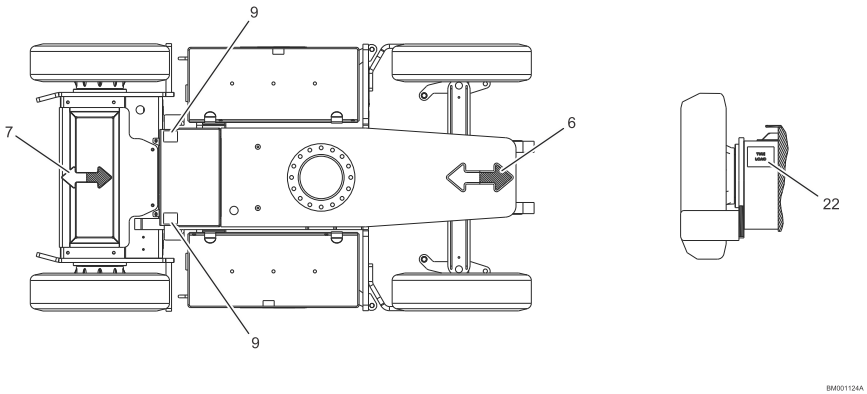


Figure 13. View 4 of 4

Item #	ANSI	Japan	Korea	Spanish	French	Chinese	Portuguese
3	1701500	1701500	1701500	1701500	1701500	1701500	1701500
4	1701504	1701504	1701504	1701504	1701504	1701504	1701504
6	1701529	1701529	1701529	1701529	1701529	1701529	1701529
7	1701642	1701642	1701642	1701642	1701642	1701642	1701642
8	1701644	1701644	1701644	1701644	1701644	1701644	1701644
9	1702155	1702155	1702155	1702155	1702155	1702155	1702155
10	1702300	1702300	1702300	1702300	1702300	1702300	1702300
11	1702391	1001113166	1001113509	1001113171	1001113169	1001113168	1001113170
13	1702868	–	1705969	1704001	1704000	1705968	1704002
14	1703797	1703926	1703927	1703923	1703924	1703925	1703928
15	1703798	1703932	1703933	1703929	1703930	1703931	1703934
16	1703804	1703950	1703951	1703947	1703948	1703949	1703952
17	1703805	1703938	1703939	1703935	1703936	1703937	1703940
18	1703813	1704342	1704343	1704339	1704340	1704344	1704341
19	1704277	1704277	1704277	1704277	1704277	1704277	1704277
22	1706126	1706126	1706126	1706126	1706126	1706126	1706126
24	3251813	3251813	–	3251813	3251813	3251813	3251813
25	3252347	1703980	1703981	1703983	1703984	1703982	1703985
28	1001231801	—	–	–	–	–	—

Item #	ANSI	Japan	Korea	Spanish	French	Chinese	Portuguese
29	1001110196	1001110196	1001110196	1001110196	1001110196	1001110196	1001110196
30	1001112461	1001112461	1001112461	1001112461	1001112461	1001112461	1001112461
31	1001253920	1001253932	1001253924	1001253930	1001253922	1001253926	1001253928
32	1001253921	1001253933	1001253925	1001253931	1001253923	1001253927	1001253929
34	1001212200	1001212200	1001212200	1001212200	1001212200	1001212200	1001212200
35	1001223055	1001224053	1001224048	1001224049	1001223971	1001224050	1001224052
36	1001228370	–	–	–	1001228370	–	–
37	4420051	4420051	4420051	4420051	4420051	4420051	

4.21.2 CE/UKCA/AUS Safety Decals

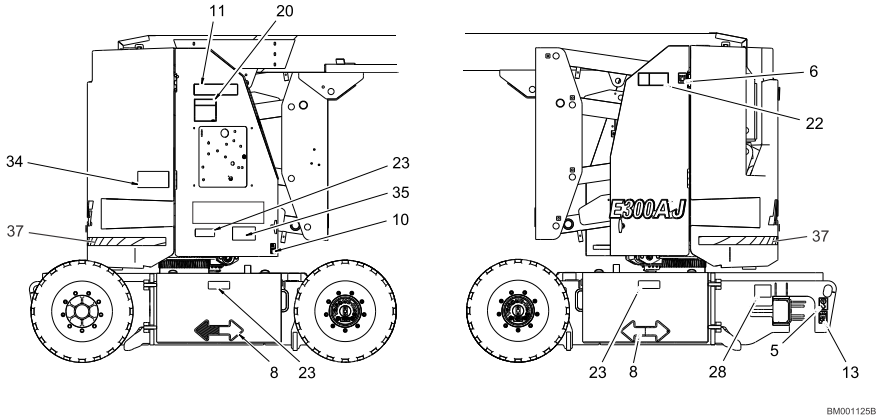


Figure 14. View 1 of 4

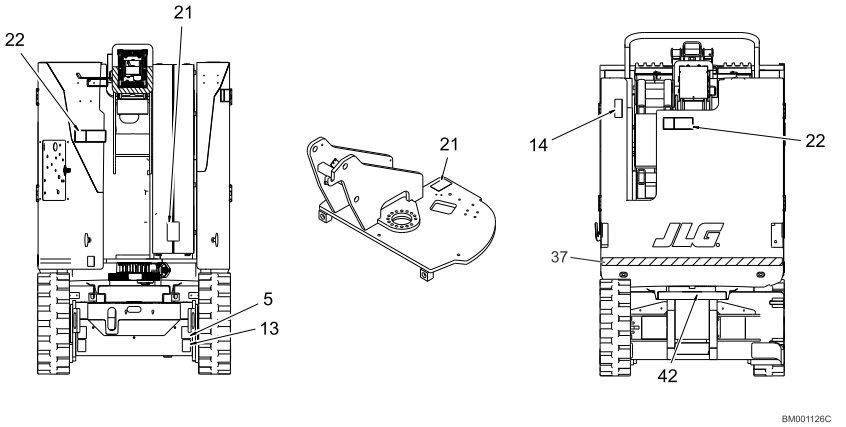


Figure 15. View 2 of 4

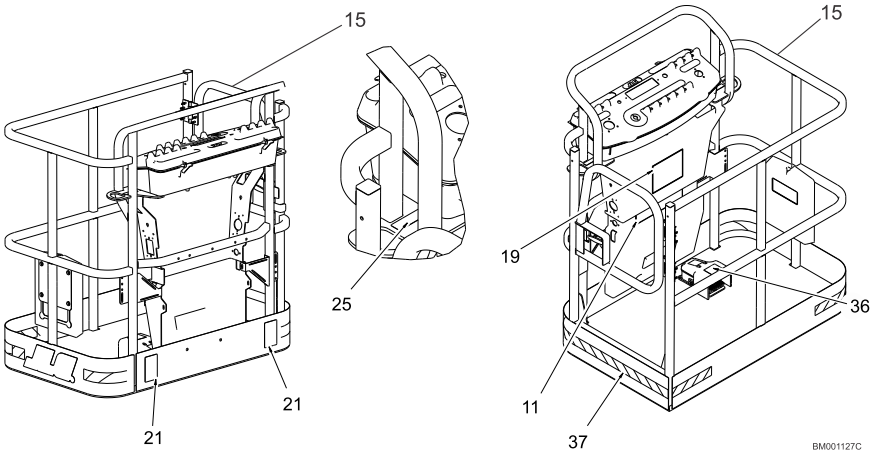


Figure 16. View 3 of 4

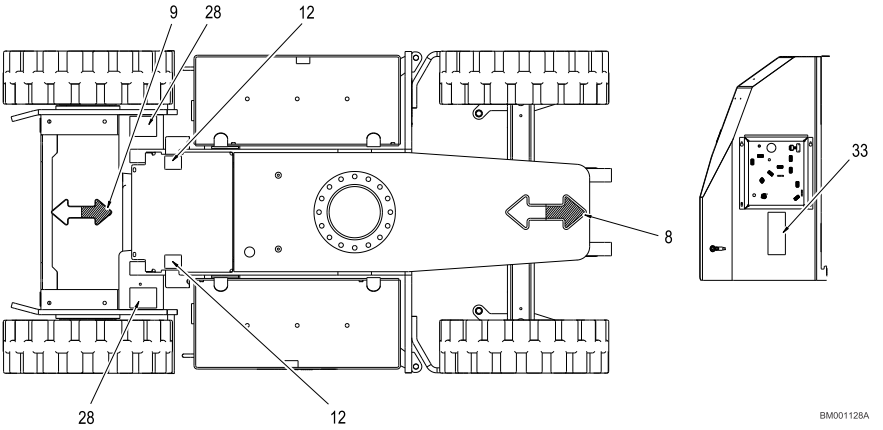


Figure 17. View 4 of 4

Item #	CE/UKCA/AUS
5	1701500
6	1701504
8	1701529
9	1701642
10	1701644
11	1705978
12	1702155

Item #	CE/UKCA/AUS
13	1702300
14	1701517
15	1001218850
19	1705921
20	1705822
21	1701518
22	1705961
23	1705670
25	1704277
28	1706126
33	1001110196
34	1001112461
35	1001212200
36	1705828
37	4420051

4.22 RAPID REPLACEABLE PLATFORM SAFETY DECALS

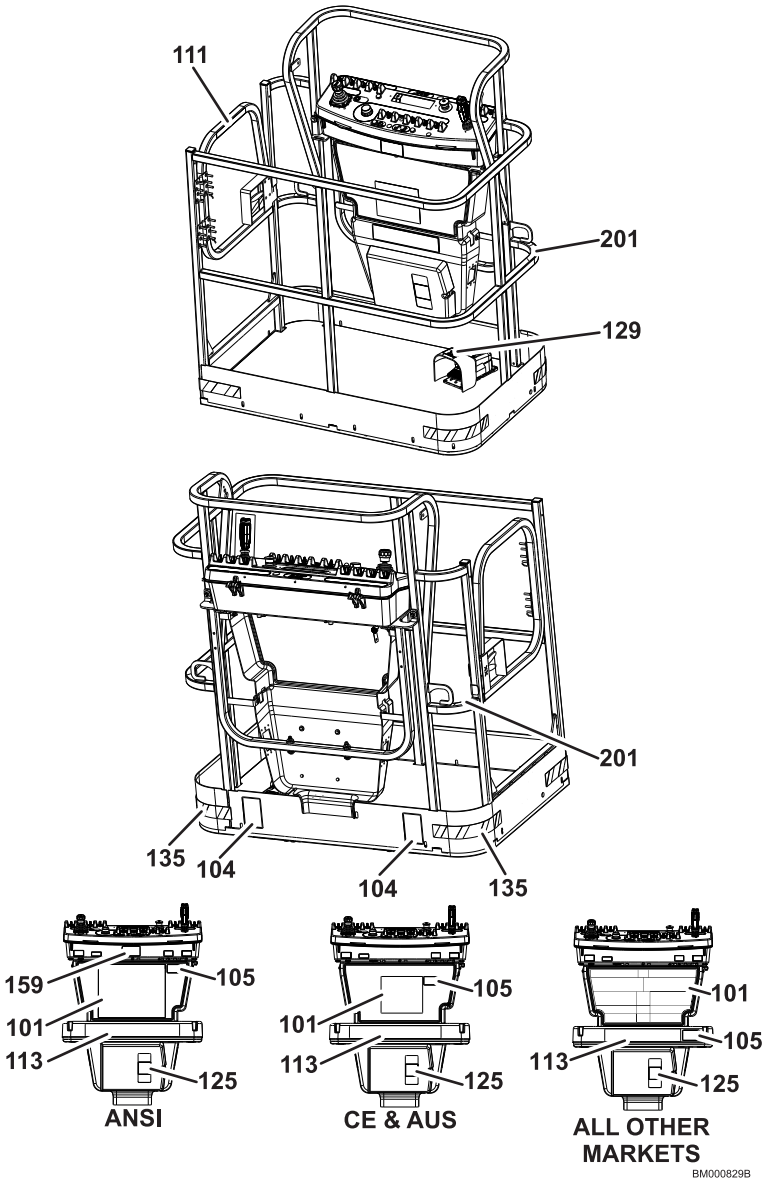


Figure 18. Rapid Replaceable Platform Decal Installation

Table 5. Decal Legend - E300AJP

Item #	ANSI	CE/UKCA & AUS	Japanese	Korean	Spanish	French	Chinese	Portuguese
101	1001311931	1705921	1001311936	1001311937	1001311932	1001311933	1001311935	1001311938
104	1703804	1701518	1703950	1703951	1703947	1703948	1703949	1703952
105	Not Used							
111	1702868	- -	- -	1705969	1704001	1704000	1705968	1704002
113	1001253920	1705978	1001253932	1001253924	1001253930	1001253922	1001253926	1001253928
125	1701640	1701640	1701640	1701640	1701640	1701640	1701640	1701640
129	3252347	1705828	1703980	1703981	1703983	1703984	1703982	1703985
135	4420051	4420051	4420051	4420051	4420051	4420051	4420051	4420051
159	1001231801	- -	- -	- -	- -	- -	- -	- -
201	1704277	1704277	1704277	1704277	1704277	1704277	1704277	1704277

SECTION 5
Emergency Procedures

5.1 GENERAL

This section explains the steps to be taken in case of an emergency situation during operation.

5.2 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, the factory should 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 and test all functions first from the ground controls, then from the platform controls. Do not lift above 3 m (10 ft.) until you are sure that all damage has been repaired, if required, and that all controls are operating correctly.

5.3 EMERGENCY OPERATION

5.3.1 Operator Unable to Control Machine

If the platform operator is pinned, trapped or unable to operate or control machine, do the following:

1. Other personnel should operate the machine from ground controls only as required.

2. Other qualified personnel on the platform may use the platform controls.

⚠ WARNING

Do not continue operation if controls do not function properly.

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

5.3.2 Platform or Boom Caught Overhead

If the platform or boom 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, use the Auxiliary Power System (if equipped) to carefully free the platform or boom 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.

5.4 EMERGENCY TOWING PROCEDURES

Towing this machine is prohibited, unless properly equipped. However, provisions for moving the machine, in case of a malfunction or power failure, have been incorporated. The following procedures are to be used ONLY for emergency movement to a suitable maintenance area.

NOTICE

The allowable towing speed is 1.9 mph (3 km/h). The maximum allowable towing distance is 0.6 miles (1 km).

1. Chock wheels securely.
2. Engage the mechanical release on both drive hubs by loosening the cap bolts, completely reversing the cap, and tightening the two bolts on each hub.
3. Connect suitable equipment, remove chocks, and move machine.

After moving machine, complete the following procedure:

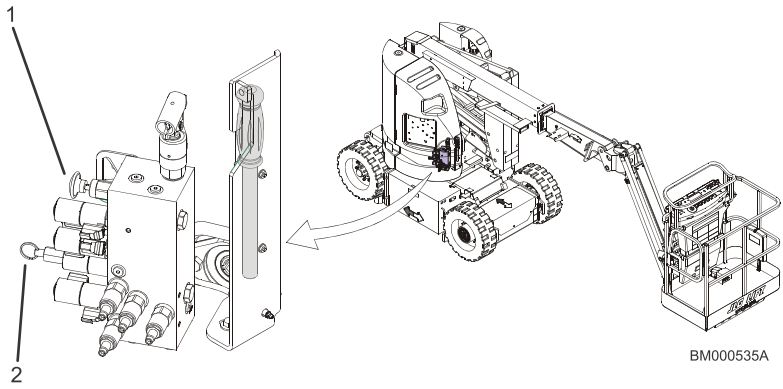
1. Position machine on a firm level surface.
2. Chock wheels securely.
3. Disengage the mechanical release on both drive hubs by loosening the cap bolts, completely reversing the cap, and tightening the two bolts on each hub.
4. Remove chocks from wheels as desired.

5.5 MANUAL DESCENT SYSTEM

The manual descent system is used, in the event of total power failure or in case the key is not accessible to the ground personnel, to lower the upper and lower booms using gravity. The jib lift cylinder must be pumped down. To operate the manual descent system, proceed as follows:

1. Locate the manual descent knob on the boom function valve. Push the knob in to lower the tower and pull the knob out to lower the main boom. The knob must be held in place to perform the lowering function; it is spring loaded to return to center when released. Install handle into manual descent pump and lower the selected cylinders by pumping the handle until the boom is completely lowered.
2. Locate the split ring on the boom function valve. Push the split ring in to lower the jib or pull the split ring out to raise the jib by pumping the handle until it is completely lowered or raised. Stow the handle in bracket provided.

5.5.1 Manual Descent Location



1. Manual Descent Knob
2. Split Ring

5.6 MANUAL SWING OVERRIDE

The manual swing override is used to manually swing the boom and turntable assembly in the event of a total power failure when the platform is positioned over a structure or obstacle. To operate the manual swing override, proceed as follows:

1. Using a 7/8 inch socket and ratchet wrench, locate nut on swing worm gear on left side of machine.
2. Install wrench on nut and ratchet in the direction desired.

5.7 CLEARSKY SMART FLEET™ - LOCKED OUT STATE

The machine may be placed into a Locked Out state remotely through ClearSky Smart Fleet.

If the CS550 (ClearSky® LED Motion / Amber Beacon) is removed from a machine or disconnected from the control system through damage, the machine may also be placed into a Locked Out state.

NOTICE

Contact the ClearSky Smart Fleet™ account owner if the machine is in a Locked Out state.

SECTION 6
Accessories

6.1 AVAILABLE ACCESSORIES AND RELATIONSHIP TABLE

Table 6. Available Accessories Table

Accessory	Market							
	ANSI (USA Only)	ANSI	AUS	CE/ UKCA	CSA	GB (China)	MOL 70 (Japan)	UL
Fabric Mesh to Mid Rail	√	√	√			√		
Fabric Mesh to Top Rail	√				√			√
Pipe Racks	√							
Platform Mesh to Mid Rail	√	√	√			√		
Platform Mesh to Top Rail	√				√			√
Platform Top Rail Extension	√				√			
Platform Work Lights	√	√	√	√	√	√	√	√

Table 7. Accessories/Options Relationship Table

Accessory	Required Item	Compatible With (Note 1)	Incompatible With	Interchangeable With (Note 2)
Fabric Mesh to Mid Rail			Pipe Racks, Platform Rail Extension	
Fabric Mesh to Top Rail			Pipe Racks	
Pipe Racks			Platform MMR*, Platform MTR*	
Platform Mesh to Mid Rail			Pipe Racks	
Platform Mesh to Top Rail			Pipe Racks, Platform Rail Extension	
Platform Top Rail Extension			Platform MTR*	
* MMR = Mesh to Mid Rail; ** MTR = Mesh to Top Rail				

6.2 FABRIC MESH TO MID OR TOP RAIL

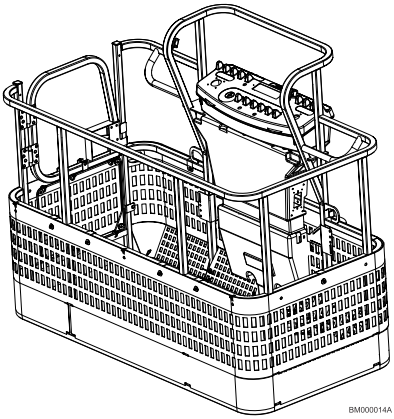


Figure 19. Fabric Mesh to Mid Rail

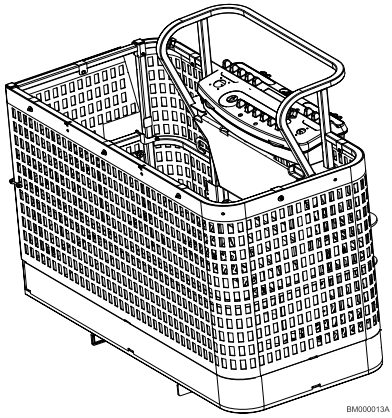


Figure 20. Fabric Mesh to Top Rail

The Fabric Mesh accessory consists of a flame retardant, lightweight mesh which is attached to the mid platform rail **or** the top platform rail.

6.3 PIPE RACKS

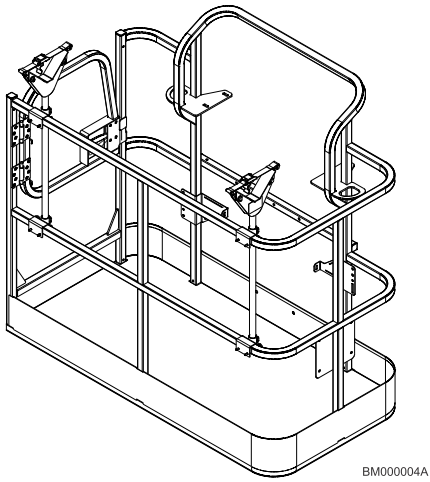


Figure 21. Pipe Racks

Pipe Racks provide a way to store pipe or conduit inside the platform in order to prevent rail damage and optimize platform utility. This accessory consists of two racks with adjustable straps to secure the load in place.

6.3.1 Capacity Specifications

Max. Capacity in Racks	Max. Platform Capacity (With Max. Weight in Racks)
80 kg	184 kg
Max. Length of Material in Racks: 6.1 m **Min. Length of Material in Racks**: 2.4 m	

6.3.2 Safety Precautions

⚠ WARNING

Reduce platform capacity by 100 lb (45.5 kg) when installed.

⚠ WARNING

Weight in racks plus weight in platform must not exceed rated capacity.

NOTICE

The maximum load in the racks is 180 lb (80 kg) evenly distributed between the two racks.

NOTICE

The maximum length of material in racks is 20 ft (6.1 m).

- Ensure no personnel are beneath the platform.
- Do not exit platform over rails or stand on rails.
- Do not drive machine without material secured.
- Return racks to the stowed position when not in use.
- Use this option only on approved models.

6.3.3 Preparation and Inspection

- Ensure racks are secured to the platform rails.
- Replace torn or frayed tie-down straps.

6.3.4 Operation

1. To prepare racks for loading, remove locking pins, rotate each rack 90 degrees from stowed to working position, then secure with locking pins.
2. Loosen and remove tie-down straps. Place material on racks with weight evenly distributed between both racks.
3. Route the tie-down straps at each end across loaded material and tighten.
4. To remove material, loosen and remove tie-down straps, then carefully remove material from racks.

Note: Reinstall tie-down straps across any remaining material before continuing machine operations.

6.4 PLATFORM MESH TO MID OR TOP RAIL

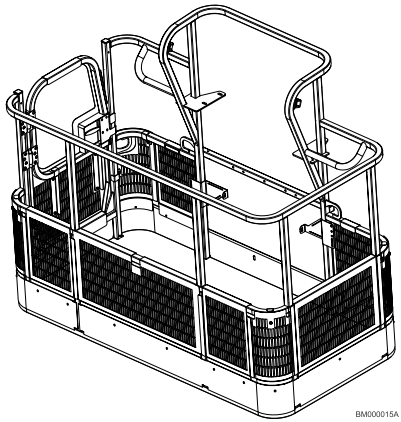


Figure 22. Platform Mesh to Mid Rail

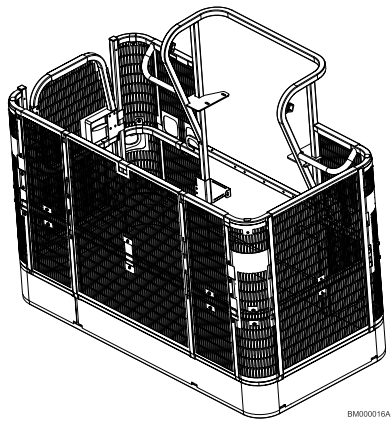


Figure 23. Platform Mesh to Top Rail

The Platform Mesh to Mid Rail accessory consists of stainless steel mesh attached to the platform mid rail.

The Platform Mesh to Top Rail accessory consists of lightweight, aluminum mesh attached to the platform top rail.

6.5 PLATFORM TOP RAIL EXTENSION

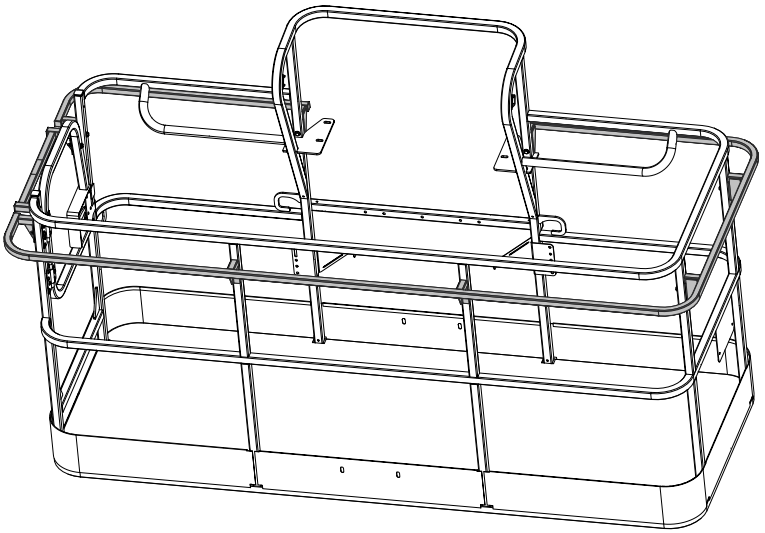


Figure 24. Platform Top Rail Extension

The Platform Top Rail Extension accessory consists of an additional bar extending from all sides of the platform.

6.6 PLATFORM WORK LIGHTS

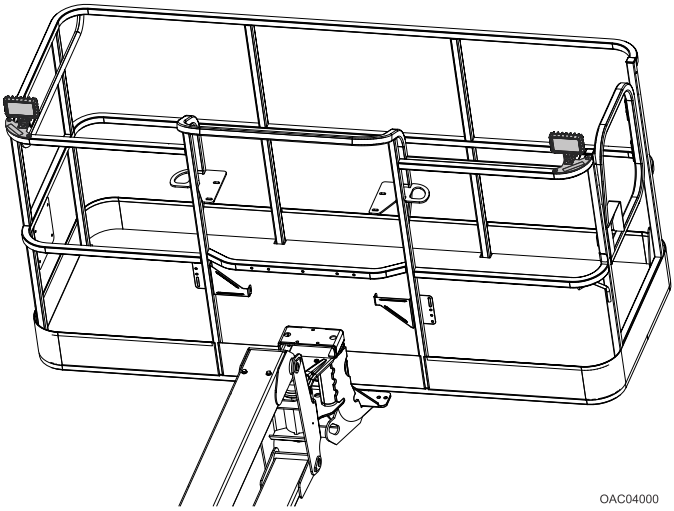


Figure 25. Platform Work Lights

The Platform Work Lights accessory consists of two 12V lights mounted to the platform railing.

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SECTION 7
General Specifications and Operator Maintenance

7.1 GENERAL

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 and does not replace the more thorough Preventive Maintenance and Inspection Schedule included in the Service & Maintenance Manual.

7.2 OPERATING SPECIFICATIONS AND PERFORMANCE DATA

7.2.1 Operating Specifications

Table 8. Operating Specifications

Capacity: Unrestricted: ANSI, ANSI Export, CSA, MOL70, GB	500 lb (227 kg)
Capacity: Unrestricted: CE/UKCA, AS/NZS	500 lb (230 kg)
Maximum Operating Slope	3°
Maximum Travel Grade, Stowed (Gradeability)	25%
Maximum Travel Grade, Stowed (Side Slope)	3°
Drive Speed	
Maximum	4.5 mph(7.2 km/h)
Reduced	2.7 mph(4.3 km/h)
Elevated	0.3 mph (0.48 km/h)
Gross Machine Weight- Approximate	15,400 lb (6985 kg)
Ground Bearing Pressure - Maximum	170 psi (11.95 kg/cm^2)
Maximum System Voltage	48V DC
Maximum Main Relief Hydraulic Pressure	3000 psi (207 bar)
Ambient (Operating) Temperature	-20° F to 120° F (-29° C to 49° C)

7.2.2 Dimensional Data

Table 9. Dimensional Data - E300AJP

Turning Radius (Inside)	5 ft (1.52 m)
Turning Radius (Outside)	10 ft 2 in (3.1 m)
Machine Height (stowed)	6 ft 7 in (2.01 m)
Machine Length (stowed)	18 ft 10 in (5.74 m)
Up and Over Platform Height	13 ft 2 in (4.01 m)
Horizontal Reach Up and Over	20 ft 1 in (6.12 m)
Machine Width	4 ft (1.22 m)
Wheel Base	5 ft 5 in (1.65 m)
Platform Height	29 ft 5 in (8.97 m)
Ground Clearance	4 in (10 cm)

7.2.3 Capacities

Table 10. Capacities

Hydraulic Oil Tank	2.9 gal (11 L) 2.1 gal (8 L) to Full Mark
Drive Hub*	25.5 oz (0.75 L) (1/2 Full)
*Drive hubs should be one half full of lubricant.	

7.2.4 Tires

Table 11. Tires

Size	25x7x12
Maximum Tire Load	8200 lb (3719 kg)
Type	Solid Non-Marking

7.3 HYDRAULIC OIL SPECIFICATIONS

Table 12. Hydraulic Oil SAE Viscosity Grade Operating Temperature Ranges

Hydraulic System Operating Temperature Range	SAE Viscosity Grade
+0° to + 180° F (-18° to +83° C)	10W
+0° to + 210° F (-18° to + 99° C)	10W–20, 10W–30
+50° to + 210° F (+10° to + 99° C)	20W–20

Note: Hydraulic oils require 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.

Note: 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.

Note: Machine operation using non-JLG approved hydraulic fluids or operation outside of the temperature boundaries outlined in the hydraulic fluid operation charts may result in premature wear or damage to components of the hydraulic system.

Note: Machines may be equipped with standard UTTO biodegradable and non-toxic hydraulic oil. This is a fully synthetic hydraulic oil that possesses the same anti-wear and rust protection characteristics as mineral oils, but will not adversely affect the ground water or the environment when spilled or leaked in small amounts.

Note: When temperatures remain consistently below 20° F (-7° C), JLG Industries recommends the use of a premium “cold weather” hydraulic fluid (Viscosity Gr. 32).

Table 13. Hydraulic Oil Properties and Classifications

Fluid	Properties		Base				Classifications		
Description	Viscosity at 40° C *	Viscosity Index	Mineral Oils	Vegetable Oils	Synthetic	Synthetic Polyol Esters	Readily Biodegradable**	Virtually Non-toxic †	Fire Resistant ‡
Shell Spirax S4 TXM - Recommended	**67**	**146**	✓						
Mobilfluid 424 - *Optional*	60	134	✓						
Shell Tellus S2 VX32 - Recommended	**32**	**142**	✓						
Mobil DTE 10 Excel 32 - *Optional*	32	164	✓						
Shell Tellus S4 VX32 - Recommended	**32**	**296**	✓						
Univis HVI 26 - *Optional*	26	376	✓						
Shell Panolin S2 Hydraulic EAL 32	**31**	**192**		✓			✓	✓	
Shell Panolin S2 Hydraulic DU EAL 46	**46**	**193**			✓		✓	✓	
Quintolubric 888-46	48	190				✓	✓	✓	✓
Hydrolube HP-5046D	46	192				✓	✓	✓	✓

* cSt, Typical
** Readily biodegradeable classification indicates one of the following:

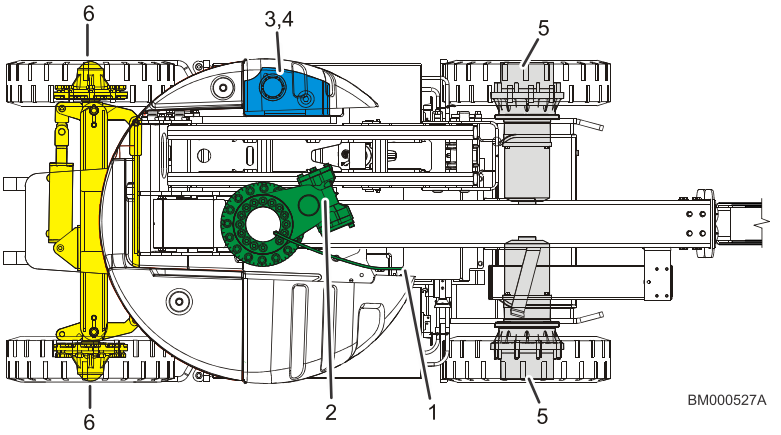
CO2 Conversion > 60% per EPA 560/6-82-003
CO2 Conversion > 80% per CEC-L-33-A-93

† Virtually Non-toxic classification indicates a LC50 > 5000 ppm per OECD 203
‡ Fire Resistant classification indicates Factory Mutual Research Corp. (FMRC) Approval

7.4 BATTERY CHARGER

Description	Specification
Battery Charger Type	Delta-Q
Electrical System Voltage (DC)	48V (960 W)
Input	
AC Input Voltage	85 – 270V AC
Nominal AC Input Voltage	120 – 240V AC
Input Frequency	50 – 60 Hz
Max. AC Input Current	Nominal 8.4A @ 120V AC Nominal 4.3A @ 240V AC
Ingress Protection	IP66
Operating Temperature	-40°F to 149°F (-40°C to 65°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Output	
Nominal DC Output Voltage	48V
Max. DC Output Voltage	72V
Max DC Output Current	20A
Derated	> 104° (40°F)
Protection	
Output Reverse Polarity	Electronic Protection-Auto Reset
Output Short Circuit	Current Limited
AC Overload	Current Limited
DC Overload	Current Limited

7.5 OPERATOR MAINTENANCE AND LUBRICATION DIAGRAM



7.6 OPERATOR MAINTENANCE AND LUBRICATION

Note: The following numbers correspond to those in the previous diagram.

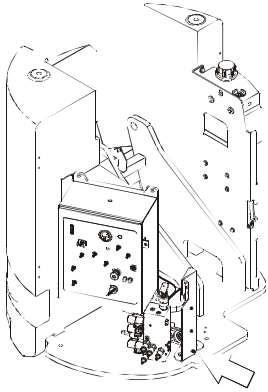
Table 14. Lubrication Specifications.

KEY	SPECIFICATIONS
MPG	Multipurpose Grease having a minimum dripping point of 350 degrees F. Excellent water resistance and adhesive qualities; and being of extreme pressure 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. API Service Classification GL-3
BG*	Bearing Grease (JLG Part No. 3020029) Mobilith SHA 460.
*MPG may be substituted for these lubricants, if necessary, but service intervals will be reduced.	

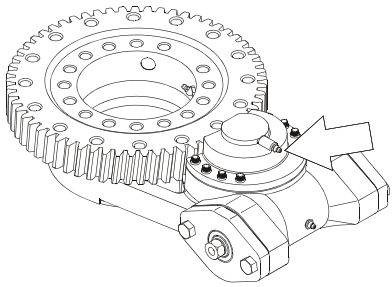
NOTICE

Lubrication intervals are based on machine operation under normal conditions. For machines used in multi-shift operations and/or exposed to hostile environments or conditions, lubrication frequencies must be increased accordingly.

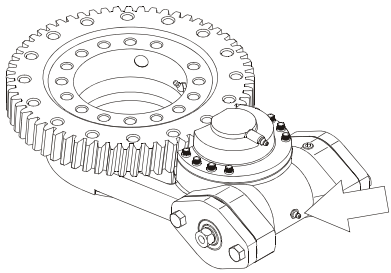
1. Swing Bearing
   Lube Point(s) - Remote Fitting
   Capacity - A/R
   Lube - BG
   Interval - Every 3 months or 150 hrs of operation
   Comments - Apply grease and rotate in 90 degree intervals until bearing is completely lubricated



2. Swing Bearing/Worm Gear Teeth
   Lube Point(s) - Grease Fitting
   Capacity - A/R
   Lube - BG
   Interval - A/R



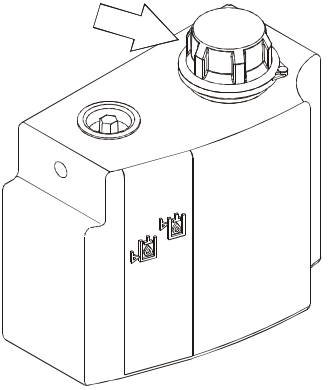
   Lube Point(s) - Grease Fitting
   Capacity - A/R
   Lube - Mobile SHC 007
   Interval - A/R



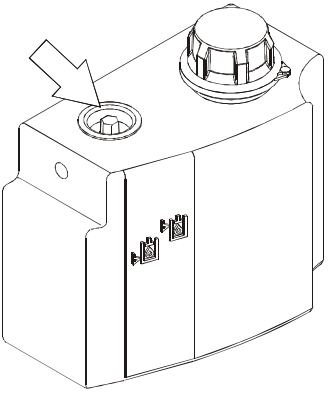
⚠ CAUTION

Do not overgrease bearings. Overgreasing bearings will result in damage to outer seal in housing.

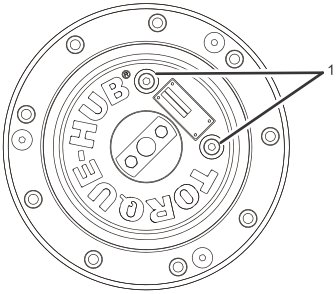
3. Hydraulic Tank
   Lube Point(s) - Fill Cap
   Capacity - 2.9 Gal. (11 L), 2.1 Gal. (8 L) to Full Mark
   Lube - HO
   Interval - Check Level daily; Change every 2 years or 1200 hours of operation.
   Comments - On new machines, those recently overhauled, or after changing hydraulic oil, operate all systems a minimum of two complete cycles and recheck oil level in reservoir.



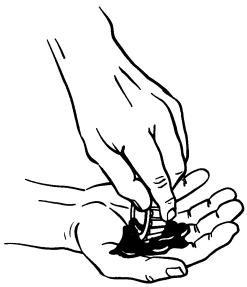
4. Hydraulic Return Filter
   Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter.
   Comments - Under certain conditions, it may be necessary to replace the hydraulic filter on a more frequent basis.



5. Wheel Drive Hub
   Lube Point(s) - Level/Fill Plug **(1)**
   Capacity - 25.5 oz. (0.75 L)(1/2 Full)
   Lube - EPGL
   Interval - Check level every 3 months or 150 hrs of operation; change every 2 years or 1200 hours of operation



6. Wheel Bearings
   Lube Point(s) - Repack
   Capacity - A/R
   Lube - MPG
   Interval - Every 2 years or 1200 hours of operation



7.7 BATTERY MAINTENANCE AND CHARGING (LEAD ACID/AGM)

⚠ WARNING

To avoid injury from an explosion, do not smoke or allow sparks or a flame near battery during servicing. Always wear eye and hand protection when servicing batteries.

7.7.1 Battery Charging (Daily)

⚠ WARNING

When battery charger is to be used, charging harness must be plugged into a grounded receptacle. If receptacle is not grounded and a malfunction should occur, the machine could cause serious electrical shock.

For increased battery life:

- Batteries should be kept at highest state of charge permitted by availability at job site and machine use. Charge batteries before they reach 20% state of charge. Avoid completely discharging the batteries.

- Fully charge the batteries each day the machine is used.
- Charge the batteries at available times between use. Flooded lead acid/AGM batteries do not develop a charging memory.
- If applicable, be sure the battery fluid covers the battery plates before charging. To avoid overflow, do not top off the fluid level until after charging.

⚠ CAUTION

When adding distilled water to the batteries, non-metallic containers and/or funnels must be used. Add water until electrolyte covers plates. Do not charge batteries unless electrolyte covers the plates.

Note: To avoid electrolyte overflow, add distilled water to batteries after charging. When adding water to the battery, fill only to level indicated or 3/8" above separators.

7.7.2 Battery Maintenance (Quarterly)

⚠ CAUTION

When adding distilled water to the batteries, non-metallic containers and/or funnels must be used. Add water until electrolyte covers plates. Do not charge batteries unless electrolyte covers the plates.

Note: To avoid electrolyte overflow, add distilled water to batteries after charging. When adding water to the battery, fill only to level indicated or 3/8" above separators.

1. Open battery compartment cover to allow access to battery terminals and vent caps.
2. Remove all vent caps and inspect electrolyte level of each cell. Electrolyte level should be to the ring approximately one inch from top of battery. Fill batteries with distilled water only. Replace and secure all vent caps.
3. Remove battery cables from each battery post one at a time, negative first. Clean cables with acid neutralizing solution (e. g., baking soda and water or ammonia) and wire brush. Replace cables and/or cable clamp bolts as required.
4. Clean battery post with wire brush then reconnect cable to post. Coat non-contact surfaces with mineral grease or petroleum jelly.
5. When all cables and terminal posts have been cleaned, ensure all cables are properly positioned and do not get pinched. Close battery compartment cover.
6. Power up machine and verify it functions properly.

7.8 TIRES AND WHEELS

7.8.1 Tire Damage

For polyurethane foam filled tires, JLG Industries, Inc. recommends that when any of the following are discovered, measures must be taken to remove the JLG product from service immediately and arrangements must be made for replacement of the tire or tire assembly.

- a smooth, even cut through the cord plies which exceeds 3 inches (7.5 cm) in total length
- any tears or rips (ragged edges) in the cord plies which exceed 1 inch (2.5 cm) in any direction
- any punctures which exceed 1 inch in diameter
- any damage to the bead area cords of the tire

If a tire is damaged but is within the above noted criteria, the tire must be inspected on a daily basis to insure the damage has not propagated beyond the allowable criteria.

7.8.2 Tire Replacement

JLG recommends a replacement tire be the same size, ply and brand as originally installed on the machine. Please refer to the JLG Parts Manual for the part number of the approved tires for a particular machine model. If not using a JLG approved replacement tire, we recommend that replacement tires have the following characteristics:

- Equal or greater ply/load rating and size of original
- Tire tread contact width equal or greater than original
- Wheel diameter, width, and offset dimensions equal to the original
- Approved for the application by the tire manufacturer (including inflation pressure and maximum tire load)

Unless specifically approved by JLG Industries Inc. do not replace a foam filled or ballast filled tire assembly with a pneumatic tire. When selecting and installing a replacement tire, ensure that all tires are inflated to the pressure recommended by JLG. Due to size variations between tire brands, both tires on the same axle should be the same.

7.8.3 Wheel Replacement

The rims installed on each product model have been designed for stability requirements which consist of track width and load capacity. Size changes such as rim width, center piece location, larger or smaller diameter, etc., without written factory recommendations, may result in an unsafe condition regarding stability.

7.8.4 Wheel Installation

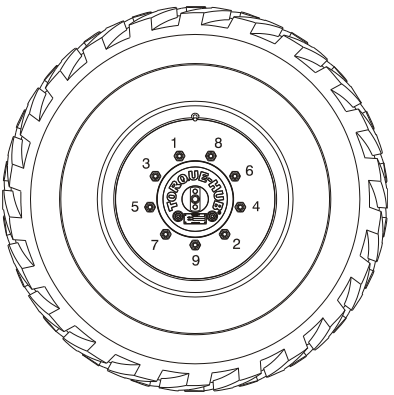
It is extremely important to apply and maintain proper wheel mounting torque.

⚠ WARNING

Wheel nuts must be installed and maintained at the proper torque to prevent loose wheels, broken studs, and possible dangerous separation of wheel from the axle. Be sure to use only the nuts matched to the cone angle of the wheel.

Tighten the lug nuts to the proper torque to prevent wheels from coming loose. Use a torque wrench to tighten the fasteners. If you do not have a torque wrench, tighten the fasteners with a lug wrench, then immediately have a service garage or dealer tighten the lug nuts to the proper torque. Over-tightening will result in breaking the studs or permanently deforming the mounting stud holes in the wheels. The proper procedure for attaching wheels is as follows:

1. Start all nuts by hand to prevent cross threading. DO NOT use a lubricant on threads or nuts.
2. Tighten nuts in the following sequence:



3. The tightening of the nuts should be done in stages. Following the recommended sequence, tighten nuts per wheel torque chart.
4. Wheel nuts should be torqued after first 50 hours of operation and after each wheel removal. Check torque every 3 months or 150 hours of operation.

Table 15. Wheel Torque Chart

TORQUE SEQUENCE		
1st Stage	2nd Stage	3rd Stage
40 ft. lbs. (55 Nm)	95 ft. lbs. (130 Nm)	170 ft. lbs. (230 Nm)

7.9 RADIO FREQUENCY (RF) INFORMATION

Note: The ClearSky Smart Fleet™ CS550 connectivity module antenna is internal to the assembly. The CS550 connectivity module complies with the wireless certification regulations in the regions of sale. Machines equipped with ClearSky Smart Fleet telematics must be received by countries that are certified to have ClearSky Smart Fleet. For a full listing of ClearSky Smart Fleet certified countries, please refer to the ClearSky webpage on the JLG website.

7.9.1 Federal Communications Commission (FCC)

FCC Interference Statement

ClearSky CS550 has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice Regarding Radio Frequency Radiation Exposure

ClearSky CS550 complies with the FCC radio frequency exposure limits prescribed for mobile use (i.e,. antennas are greater than 20 cm from a person's body) in an uncontrolled environment. Consequently, a person within 20 cm (8 in) of a CS550 that is connected to machine battery power could expose that person to RF energy in excess of what has been established by the FCC RF exposure guidelines.

7.9.2 Innovation, Science and Economic Development (ISED)

Radio Frequency Interference Requirements

The ClearSky CS550 Class B digital apparatus complies with Canadian ICES-003. [Canada Compliance Label: CAN ICES-3 (B)/NMB-3(B)]

This device complies with Industry Canada license-exempt RSS standard (s). Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice Regarding Radio Frequency Radiation Exposure

ClearSky CS550 complies with the ISED radio frequency exposure limits prescribed for mobile use (i.e,. antennas are greater than 20 cm from a person's body) in an uncontrolled environment. Consequently, a person within 20 cm (8 inches) of a CS550 that is connected to machine battery power could expose that person to RF energy in excess of what has been established by the ISED RF exposure guidelines.

7.9.3 European Union Conformity (CE)

CE Interference Statement

JLG Industries, Inc. declares that the radio equipment ClearSky Smart Fleet CS550 Connectivity Module complies with Directive 2014/53/EU. Full details can be found on the declaration of conformity. The CS550 is intended to be mounted on JLG machines and has integrated beacon functionality. Additionally, it provides telematics data via WiFi or Cell, and provides local diagnostic data exchange with a mobile device connected via WiFi and BLE. Mobile device software is obtained through Google Play Store or Apple App Store.

Frequencies of Operation [and maximum power output]:

- LTE Cat M1: 700/750/800/850/900/1700/1800/1900/2100 MHz [23 dBm±2 dB]
- 2G GPRS: 900MHz [Class 4, 33 dBm ±3 dB], 1800MHz [Class 1, 30 dBm ±3 dB]
- 2G EGPRS: 900MHz [Class E2, 27 dBm ±3 dB], 1800MHz [Class E2, 26 dBm ±3 dB]
- WiFi (IEEE 802.11b/g/n): 2400-2483.5 MHz [18 dBm e.i.r.p]
- Bluetooth (BLE, Mesh 1.0 and proprietary GATT): 2400-2483.5 MHz [12.1 dBm e.i.r.p]
- GNSS (receive only: GPS, GLONASS, BeiDou, Galileo): 1575.42MHz, 1561.098MHz, 1602MHz

Ensure at least 20 cm separation distance is maintained between user's body and CS550 module to meet Maximum Permissible Exposure (MPE) restrictions for RF exposure.

Contact: JLG EMEA B.V., Polaris Avenue 63, 2132 JH Hoofddorp, Netherlands

7.10 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 specified workstation based on test methods per EN280-1:2022 Annex M.1 is 73 dB (A).

The vibration highest root mean square value of weighted acceleration to which the whole body is subjected during driving or lifting does not exceed 0.5 m/s^2.

JLG declares that machines included in this manual, before placing on the market, have been subjected to the required tests in accordance with EN280-1:2022, clause 5.3.

7.11 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 Strategy EMEAI

Date/Place
Hoofddorp, Netherlands

Machine Type
Mobile Elevating Work Platform

Model Type
E300AJP

EC-Number
2842

Certificate Number
KCEC5400

Notified Body
Kuiper Certificering b.v.

Address
Van Slingelandtstsraat 75, 7331 NM
Apeldoorn, The Netherlands

Reference Standards

- EN 55011:2016+A11:2020
- EN 61000-6-2:2005
- EN 60204-1:2018
- EN 280–1:2022
- 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.

7.12 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
E300AJP

AB-Number
0463

Certificate Number
AVUK5400

Approved Body
Amtri Veritas

Address
Pierce Street, Macclesfield, SK11 6ER, England

Reference Standards

- EN 55011:2016+A11:2020
- EN 61000-6-2:2005
- EN 60204-1:2018
- EN 280–1:2022
- 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 20165
- 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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Serial Number _____

Any additional required certificates can be attached to the rear cover of this manual or stored in the manual box.

Date	Comments

Inspection, Maintenance and Repair Log



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www.jlg.com



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