# Operation & Safety Manual

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

# RT3394, RT4394

**PVC 2404**

**3122565900**

**October 13, 2025 - Rev A**

**ANSI CE UK CA**
**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

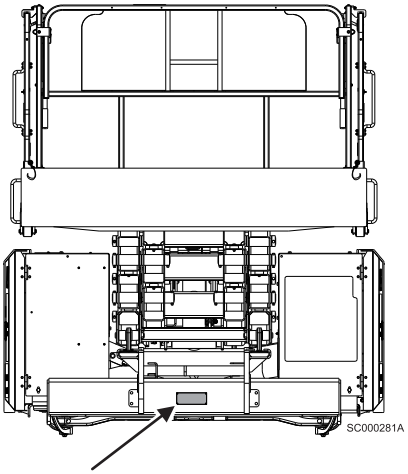
| Date | Revision | Description |
|---|---|---|
| October 13, 2025 | A | Original Issue |

## Other Publications Available

| Publication | Publication Number |
|---|---|
| Service & Maintenance Manual | 3122566000 |
| Illustrated Parts Manual | 3122566100 |

## Serial Number Location

The serial number plate is affixed to the rear axle.



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# SECTION 1
# Safety Precautions

## 1.1 GENERAL

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

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

This section contains the responsibilities of the owner, user, operator, lessor, and lessee concerning safety, training, inspection, maintenance, application, and operation. If there are any questions with regard to safety, training, inspection, maintenance, application, and operation, please contact JLG Industries, Inc. (“JLG”).

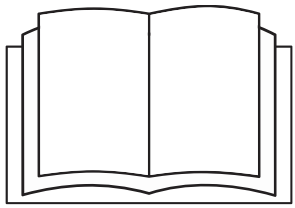
**⚠ WARNING**

Failure to comply with the safety precautions listed in this manual could result in machine damage, property damage, personal injury or death.

## 1.2 PRE-OPERATION

### 1.2.1 Operator Training and Knowledge

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



- Only personnel who have received proper training regarding the inspection, application and operation of MEWPs (including recognizing and avoiding hazards associated with their operation) shall be authorized to operate a MEWP.

- Only properly trained personnel who have received unit-specific familiarization shall operate a MEWP. The user shall determine if personnel are qualified to operate the MEWP prior to operation.
- Read, understand, and obey all DANGERS, WARNINGS, CAUTIONS, and operating instructions on the machine and in this manual.
- Ensure that the machine is to be used in a manner which is within the scope of its intended application as determined by JLG.
- All operating personnel must have a thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground and emergency descent controls.
- Read, understand, and obey all applicable employer, local, and governmental regulations as they pertain to your utilization and application of the machine.

### 1.2.2 Workplace Inspection

- Precautions to avoid all hazards in the work area must be taken by the user before and during operation of the machine.
- Do not operate or raise the platform from a position on trucks, trailers, railway cars, floating vessels, scaffolds or other equipment unless the application is approved in writing by JLG.
- Before operation, check work area for overhead hazards such as electric lines, bridge cranes, and other potential overhead obstructions.
- Check operating surfaces for holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards.
- Check the work area for hazardous locations. Do not operate the machine in hazardous environments unless approved for that purpose by JLG.
- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel. Do not travel on unsupported surfaces.
- This machine can be operated in nominal ambient temperatures of 0°F to 104°F (-20°C to 40°C). Consult JLG to optimize operation outside of this temperature range.
- When operating an internal combustion engine at high altitudes, a decrease in machine performance may occur due to a decrease in air density depending on engine aspiration type, temperature, and humidity, therefore JLG recommends not operating the machine higher than 6000 m above sea level without consultation with the engine suppliers. For electric machines, performance may diminish higher than 6000 m above sea level.

### 1.2.3 Machine Inspection

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

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

**⚠ WARNING**

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

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

## 1.3 OPERATION

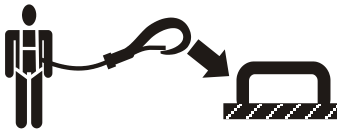
### 1.3.1 General

- Machine operation requires your full attention. Bring the machine to a full stop before using any device, i.e. cell phones, two-way radios, etc. that will distract your attention from safely operating the machine.
- Do not use the machine for any purpose other than positioning personnel, their tools, and equipment.
- Before operation, the user must be familiar with the machine capabilities and operating characteristics of all functions.
- Never operate a malfunctioning machine. If a malfunction occurs, shut down the machine. Remove the unit from service and notify the proper authorities.
- Do not remove, modify, or disable any safety devices.
- Never slam a control switch or lever through neutral to an opposite direction. Always return switch to neutral and stop before moving the switch to the next function. Operate controls with slow and even pressure.
- Do not allow personnel to tamper with or operate the machine from the ground with personnel in the platform, except in an emergency.
- Do not carry materials directly on platform railing unless approved by JLG.
- 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.
- 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

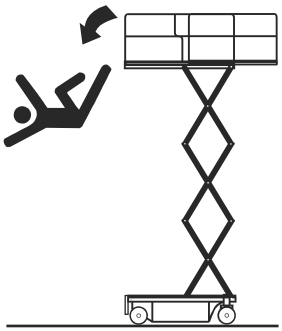
- Prior to operation, ensure all gates and rails are fastened and secured in their proper position.



- JLG Industries, Inc. recommends that all persons in the platform wear a full body harness with a lanyard attached to an authorized lanyard anchorage point while operating this machine. For further information regarding fall protection requirements on JLG products, contact JLG Industries, Inc.

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

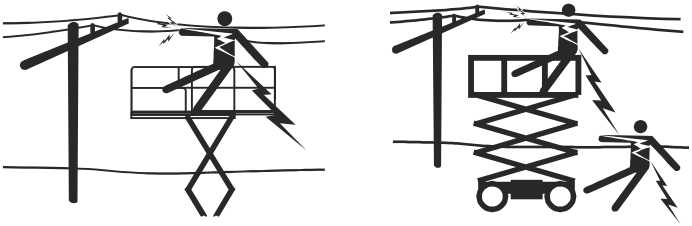
- Identify the designated lanyard anchorage point(s) at the platform and securely attach the lanyard. Attach only one (1) lanyard per lanyard anchorage point.
- Enter and exit only through gate area. Use extreme caution when entering or leaving platform. Ensure that the platform assembly is fully lowered. Face the machine when entering or leaving the platform. Always maintain “three point contact” with the machine, using two hands and one foot or two feet and one hand at all times during entry and exit.



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

### 1.3.3 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 platform 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)..
- 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) |

**Table 1. Minimum Approach Distances (MAD) (continued)**

| Voltage Range (Phase to Phase) | Minimum Approach Distance in Feet (Meters) |
|---|---|
| Over 350 KV to 500 KV | 25 (8) |
| Over 500 KV to 750 KV | 35 (11) |
| Over 750 KV to 1000 KV | 45 (14) |
| **Note:** This requirement shall apply except where employer, local or governmental regulations are more stringent. | |

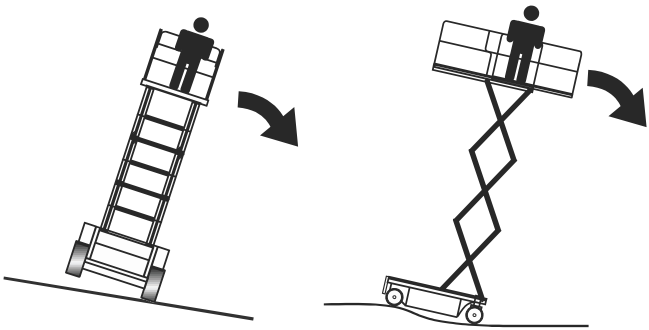
- Maintain a clearance of at least 10 ft (3 m) between any part of the machine and its occupants, their tools, and their equipment from any electrical line or apparatus carrying up to 50,000 volts. One foot additional clearance is required for every additional 30,000 volts or less.
- The MAD may be reduced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

**⚠ DANGER**

Do not maneuver machine or personnel inside prohibited zone (MAD). Assume all electrical parts and wiring are energized unless known otherwise.

### 1.3.4 Tipping Hazards

- Ensure that the ground conditions are adequate to support the maximum 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 (0.6 m) from holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards at the ground level.
- Do not push or pull any object with the machine.
- Never attempt to use the machine as a crane. Do not tie-off machine to any adjacent structure. Never attach wire, cable, or any similar items to platform.
- If the scissor arm assembly or platform is caught so that one or more wheels are off the ground, all persons must be removed before attempting to free the machine. Use cranes, forklift trucks, or other appropriate equipment to stabilize machine.
- Do not operate the machine when wind conditions, including gusts, exceed specifications shown in the Machine Specifications and Operator Maintenance section. Refer to Table — Beaufort Scale (For Reference Only). 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, deck extensions, or attachments.

**⚠ WARNING**

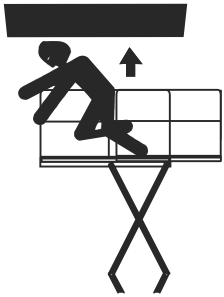
Do not operate the machine when wind conditions exceed specifications shown in the General Specifications section of this manual or as shown on the capacity placard on the platform billboard.

**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. |
| 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.
- Keep hands and limbs out of the scissor arm assembly during operation and when elevated without safety prop engaged.
- 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.

**⚠ WARNING**

If driving machine with the platform control station from ground, do not hang the control box on any part of the machine while driving. Hold the control box and keep at least 3 ft (1 m) distance from machine.

## 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 Towing procedures section of this manual for emergency towing procedures.
- Ensure platform is fully retracted and completely empty of tools prior to towing, lifting or hauling.
- When lifting machine with a forklift, position forks only at designated areas of the machine. Lift with a forklift of adequate capacity.
- Refer to the Machine Controls, Indicators, and 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.

- 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<br>or<br>Out of service for a period of more than 3 months<br>or<br>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 PRE-START INSPECTION

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

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

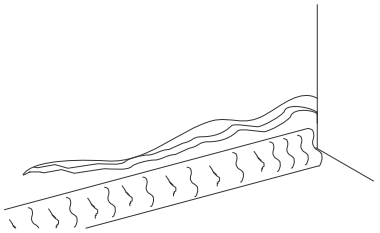


**Figure 1. Parent Metal Crack**

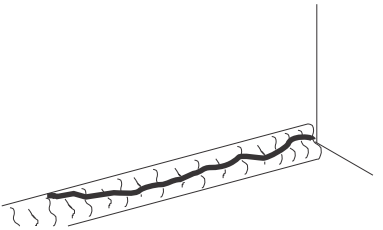


**Figure 2. Weld Crack**

3. **Decals and Placards** – Check all for cleanliness and legibility. Make sure none of the decals and placards are missing (refer to the Safety Decals section). 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. **Fuel** (Combustion Engine Powered Machines) – Add the proper fuel as necessary.

8. **Hydraulic Oil** – Check the hydraulic oil level. Ensure hydraulic oil is added as required.

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 3 for more specific instructions on the operation of each function.

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

11. **Platform Gate** – Keep gate and surrounding area clean and unobstructed. Ensure 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.

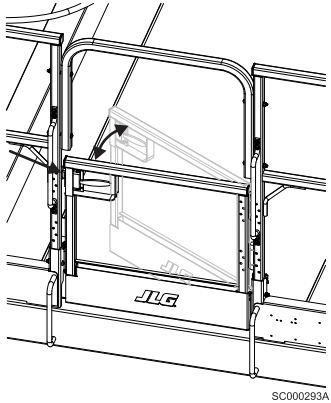



**Figure 3. Self-Closing Swing Gate**

12. **Lanyard Attach Points** – JLG Industries, Inc. recommends personnel in the platform wear a full body harness with a lanyard attached to an authorized lanyard anchorage point.

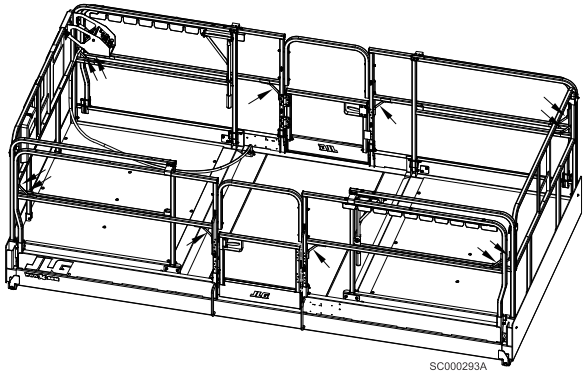
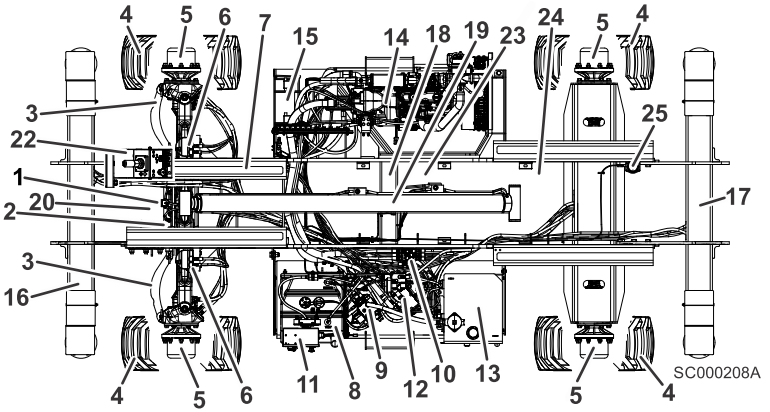



**Figure 4. Lanyard Attach Points**

## ⚠ WARNING

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

## 2.4 WALK-AROUND INSPECTION




Begin the Walk-Around Inspection at Item 1 as noted on the diagram. Continue to the right (counterclockwise viewed from top) checking each item in sequence for the conditions listed in the following checklist.

# ⚠ WARNING

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

# *NOTICE*

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

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

1. **Oscillating Axle Tilt Sensor** – No unsupported wires; no damaged or broken wires - See Inspection Note.
2. **Steer Cylinder** – See Inspection Note.
3. **Spindle, Tie Rod, and Steer Linkage** – See Inspection Note.
4. **Wheels and Tires** – Properly secured, no missing lug nuts (refer to Section — Tires and Wheels). Inspect wheels for damage and corrosion.
5. **Wheel Drive Hub** – See Inspection Note.
6. **Oscillating Axle and Oscillation Cylinders** – See Inspection Note.

7. **Scissor Arms, Centering Link and Sliding Wear Pads** – See Inspection Note.
8. **Fuel Tank** – See Inspection Note.
9. **Main Control Valve** – No unsupported wires or hoses; no damaged or broken wires.
10. **Leveling Jack Valve (If Equipped)** – No unsupported wires or hoses; no damaged or broken wires.
11. **Ground Controls** – Placard secure and legible, control switches return to neutral position when activated and released, emergency stop switch functions properly. Control markings legible.
12. **Drive Valve** – No unsupported wires or hoses; no damaged or broken wires.
13. **Hydraulic Reservoir** – Recommended hydraulic fluid level on level indicator on tank. Breather cap secure and working.
14. **Engine and Hydraulic Pump Assembly** – See Inspection Note.
15. **Battery Cables/Routing Installation** – See Inspection Note.
16. **Front Leveling Jack Assembly (If Equipped)** – See Inspection Note.
17. **Rear Leveling Jack Assembly (If Equipped)** – See Inspection Note.
18. **Rotary Angle (Elevation) Sensor (located on lower arm attach link pin)** – See Inspection Note.
19. **Lift Cylinder** – See Inspection Note.
20. **Arm Stack Tilt Sensor** (on scissor arm cross-member) – See Inspection Note.
21. **Safety Prop** (on scissor arms) (not shown) – See Inspection Note.
22. **Platform Control Console** (on platform rail) – Placard secure and legible, control lever and switches return to neutral when activated and released, all switch guards are in place, trigger switch and emergency stop switch function properly, Operation & Safety manual in storage box.
23. **Platform/Handrail Installation (not shown)** – See Inspection Note.
24. **Platform Extension Stops and Rollers** (not shown) – Extension stops secure and undamaged. Rollers are undamaged, free of debris and operate properly.
25. **Beacon (If Equipped)** – See Inspection Note.

## 2.5 FUNCTION CHECK

Perform the Function Check as follows:

1. From the Ground Control Panel with no load in platform:
   a. Check that all guards protecting switches are in place.
   b. Operate all functions (refer to *Section — Ground Control Station* for Ground Controls and Indicators).
   c. Ensure that all machine functions are disabled when the Emergency Stop Button is activated.
   d. Check that auxiliary descent, lift down operates with engine off and power on.
2. From the Platform Control Console:
   a. Ensure that the control console is firmly secured in the proper location.
   b. Ensure all guards protecting switches are in place.
   c. Operate all functions and check all limiting and cutout switches (refer to *Table — Tilt Cutout Settings, page 33* and *Table — Maximum Drive Cutout Height, page 33* for limit and cutout settings).
   d. Ensure that all machine functions are disabled when the Emergency Stop Button is activated.
   e. Ensure all machine functions stop when function control is released or when joystick trigger is released.
   f. Check that manual descent (lift down) operates with engine off and power on.
3. With the platform in the transport (stowed) position:
   a. Drive the machine on a grade, not to exceed the rated gradeability, and stop to ensure the brakes hold.
   b. Ensure the platform tilt indicator light is illuminated.

**Table 4. Tilt Cutout Settings**

| Model | Market | Lift Up and Drive prevented when elevated and tilted Front to Back beyond the following limits: | Lift Up and Drive prevented when elevated and tilted Side to Side beyond the following limits: |
|---|---|---|---|
| RT3394 | ANSI<br>ANSI Export<br>CE/UKCA<br>AUS<br>KOR | ± 5° to Full Height | ± 3° to Full Height |
| | CSA | ± 3° to Full Height | ± 3° to Full Height |
| RT4394 | ANSI<br>ANSI Export<br>CE/UKCA<br>AUS<br>KOR | ± 5° to Full Height | ± 3° to Full Height |
| | CSA | ± 3° to Full Height | ± 3° to Full Height |

**Table 5. Maximum Drive Cutout Height**

| Model | High Drive Cutout |
|---|---|
| RT3394 | 6 to 9 ft (2 to 3 m) |
| RT4394 | 6 to 9 ft (2 to 3 m) |

## 2.6 OSCILLATING AXLE - LOCKOUT CYLINDER TEST (IF EQUIPPED) (CE/UKCA MARKETS ONLY)

**NOTICE**

Lockout cylinder system test must be performed quarterly, any time a system component is replaced, or when improper system operation is suspected.

**Note:** Ensure platform is fully lowered prior to beginning lockout cylinder test, and that the surface used to approach the ramp is flat and level.

### 2.6.1 Left Side Wheel Test

1. Place a 4 in (10.16 cm) high block with ascension ramp in front of left wheel of the oscillating axle.
2. From platform control station, select low drive speed.
3. Set the drive control switch into position and carefully drive the machine up ascension ramp until left oscillating axle wheel is on top of block.

4. Verify the axle oscillates to maintain contact with the ground/ramp. (All four wheels on the ground).
5. Raise machine platform above stowed position to drive cutout height.
6. Carefully drive the machine back off the block and ramp.
7. Have an assistant check to see that the left oscillating axle wheel that was on the block is in position on the ground. The axle should oscillate so that all four wheels maintain contact with the ground.
8. In the current position (platform raised and all four on flat and level surface), carefully drive machine up the ramp block again.
9. Have an assistant check to verify that the axle did not oscillate and remained locked (one wheel is off of the ground).
10. Carefully drive the machine back off the block and ramp.
11. Lower the machine platform; the lockout cylinder should then release and allow the axle to oscillate. It may be necessary to activate drive to release cylinders.
12. If the lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

### 2.6.2 Right Side Wheel Test

1. Place a 4 in (10.16 cm) high block with ascension ramp in front of right wheel of the oscillating axle.
2. From platform control station, select LOW drive speed.
3. Set the drive control switch into position and carefully drive the machine up ascension ramp until right oscillating axle wheel is on top of block.
4. Verify the axle oscillates to maintain contact with the ground/ ramp. (All four wheels on the ground).
5. Raise machine platform above stowed position to drive cutout height.
6. Carefully drive the machine back off the block and ramp.
7. Have an assistant check to see that the right oscillating axle wheel that was on the block is in position on the ground. The axle should oscillate so that all four wheels maintain contact with the ground.
8. In the current position (platform raised and all four on flat and level surface), carefully drive machine up the ramp block again.
9. Have an assistant check to verify that the axle did not oscillate and remained locked (one wheel is off of the ground).
10. Carefully drive the machine back off the block and ramp.
11. Lower the machine platform; the lockout cylinder should then release and allow the axle to oscillate. It may be necessary to activate drive to release cylinders.

12. If the lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

## 2.7 OSCILLATING AXLE — LOCKOUT CYLINDER TEST (IF EQUIPPED) (ALL MARKETS EXCEPT CE/UKCA)

**NOTICE**

Lockout cylinder system test must be performed quarterly, any time a system component is replaced, or when improper system operation is suspected.

**Note:** Ensure platform is fully lowered prior to beginning lockout cylinder test, and that the surface used to approach the ramp is flat and level.

### 2.7.1 Left Side Wheel Test

1. Place a 4 in (10.16 cm) high block with ascension ramp in front of left wheel of the oscillating axle.
2. From platform control station, select low drive speed.
3. Set the drive control switch into position and carefully drive the machine up ascension ramp until left oscillating axle wheel is on top of block.
4. Verify the axle oscillates to maintain contact with the ground/ramp. (All four wheels on the ground).
5. Raise machine platform above stowed position to drive cutout height.
6. Carefully drive the machine back off the block and ramp.
7. Have an assistant check to see that the left oscillating axle wheel that was on the block remains elevated in position off of the ground.
8. Return the machine to the stowed position. The lockout cylinder should release and allow the wheel to rest on the ground. It may be necessary to activate drive to release the cylinder.
9. If the lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

### 2.7.2 Right Side Wheel Test

1. Place a 4 in (10.16 cm) high block with ascension ramp in front of right wheel of the oscillating axle.
2. From platform control station, select LOW drive speed.
3. Set the drive control switch into position and carefully drive the machine up ascension ramp until right oscillating axle wheel is on top of block.

4. Verify the axle oscillates to maintain contact with the ground/ ramp. (All four wheels on the ground).
5. Raise machine platform above stowed position to drive cutout height.
6. Carefully drive the machine back off the block and ramp.
7. Have an assistant check to see that the right oscillating axle wheel that was on the block remains elevated in position off of the ground.
8. Return the machine to the stowed position. The lockout cylinder should release and allow the wheel to rest on the ground. It may be necessary to activate drive to release the cylinder.
9. If the lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

# SECTION 3
# Machine Controls, Indicators, and Operation

## 3.1 GENERAL

**NOTICE**

The manufacturer has no direct control over machine application and operation, the user and operator are responsible for conforming with good safety practices.

This section provides the necessary information needed to understand machine controls and indicators.

**⚠ WARNING**

Do not raise platform unless the machine is on a smooth, firm surface, within the limits of the maximum operating slope, free of obstructions and holes.

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

If the platform does not stop when a control switch or lever is released, use the emergency stop switch to stop the machine.

## 3.2 DESCRIPTION

This machine is a Mobile Elevating Work Platform (MEWP) is used to position personnel with their tools and supplies at positions above ground level.

This MEWP has a primary operator control station in the platform. From this control station, the operator can drive and steer the machine in both forward and reverse directions, raise and lower the platform and set the machine leveling jacks.

The machine can be driven on a smooth, firm surface within the limits of the maximum operating slope from an elevated platform position.

The machine also has a ground control station which can override the platform control station. Ground controls operate lift up and down. Except for performing inspections and function checks, ground controls are to be used only in an emergency to lower the platform to the ground should the operator in the platform be unable to do so.

# 3.3 OPERATING CHARACTERISTICS AND LIMITATIONS

### 3.3.1 Placards

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

### 3.3.2 Capacities

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

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

### 3.3.3 Stability

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

# 3.4 PLATFORM LOADING

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

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

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

## 3.5 MACHINE CONTROLS LOCATION

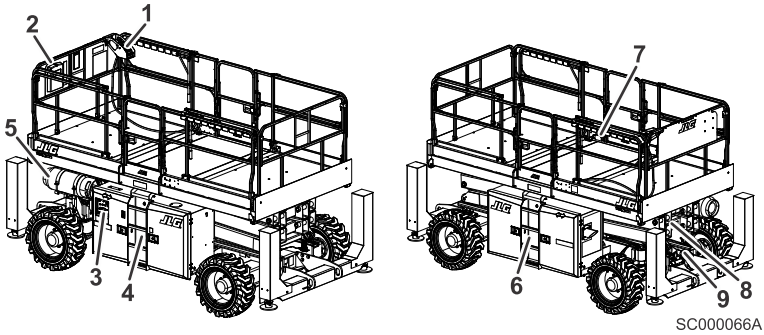
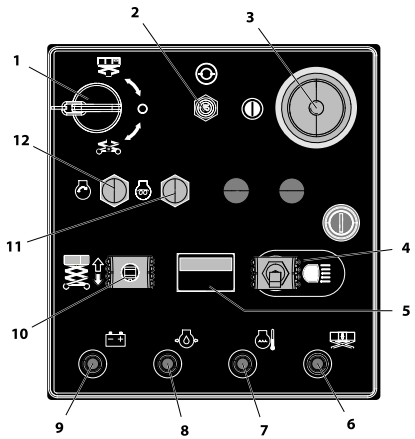



**Figure 5. Location of Machine Controls**

1. Platform Control Station
2. Manual Storage Box
3. Ground Control Station
4. Fuel/Hydraulic Compartment
5. Propane Fuel Tank (Dual Fuel Only)
6. Engine/Hydraulic Pump/Battery Compartment
7. Platform AC Receptacle Plug
8. Scissor Arms - Safety Prop Actuator Rod
9. Platform Manual Descent Control

## 3.6 GROUND CONTROL STATION




1. Ground/Platform/OFF/Key Selector Switch
2. Circuit Breaker (15 Amp)
3. Emergency Stop Switch
4. Head and Tail Lights (If Equipped)
5. Hourmeter
6. Overload Indicator (LSS)
7. Water Temperature Indicator
8. Oil Pressure Indicator
9. Battery Indicator
10. Platform Lift/Lower Switch
11. Glow Plug (Diesel Engine Only)
12. Start Button

### 3.6.1 Indicators

**⚠ WARNING**

Do not operate from ground control station with personnel in the platform except in an emergency.

Battery Indicator - Illuminates when the charge in the battery is low.



Circuit Breaker - The circuit breaker will open when there is a short or overload on the machine.



Emergency Stop Switch - A two-position, red, mushroom-shaped emergency stop switch, when positioned to ON with the power selector switch positioned to ground, furnishes operating power to the ground control station. In addition, the switch can be used to turn off power to the function controls in the event of an emergency. Power is turned on by pulling the switch out (on), and is turned off by pushing the switch in (off ).



Engine Start Switch - A momentary contact, push button type switch that supplies electrical power to the starter solenoid when the emergency stop switch is in the ON position and the start button is depressed.

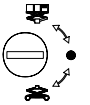


Glow Plug Switch (Diesel Engine Only) - A momentary contact, push button type switch that supplies electrical power to the engine's glow plugs, to assist cold starting. Once pressed, there is a 5 second default timer that will not allow the start button to function before this time has elasted.

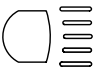


**Note:** Diesel engine cannot be started while glow plugs are on.

Ground/Platform/OFF Key Selector Switch - A three position, key-operated power select switch supplies operating power to the platform or ground controls, as selected. When positioned to platform, the switch provides power to the emergency stop switch at the platform controls. When positioned to ground, the switch provides power to the ground control. The ground control emergency stop switch provides power to the key switch. With the power select switch in the center off position, power is shut off to both platform and ground controls and the key can be removed to disable the machine.



Head and Tail Lights - ON/OFF Switch (If Equipped) - This toggle switch turns the head and tail lights on and off.



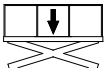
Hourmeter - The machine is equipped with an hour meter to indicate the number of hours the machine has been operated.



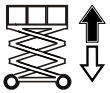

Oil Pressure Indicator - Illuminates when the engine oil pressure drops too low.



Overload Indicator (LSS) - Illuminates when the platform becomes overloaded.



Platform Lift/Lower Switch - A three position, momentary contact lift control switch provides raising and lowering of the platform when positioned to lift up or down. In addition to normal operation, manual descent allows lift down with power on and engine off.



Water Temperature Indicator - Illuminates when the engine is overheating.



## 3.7 PLATFORM CONTROL STATION

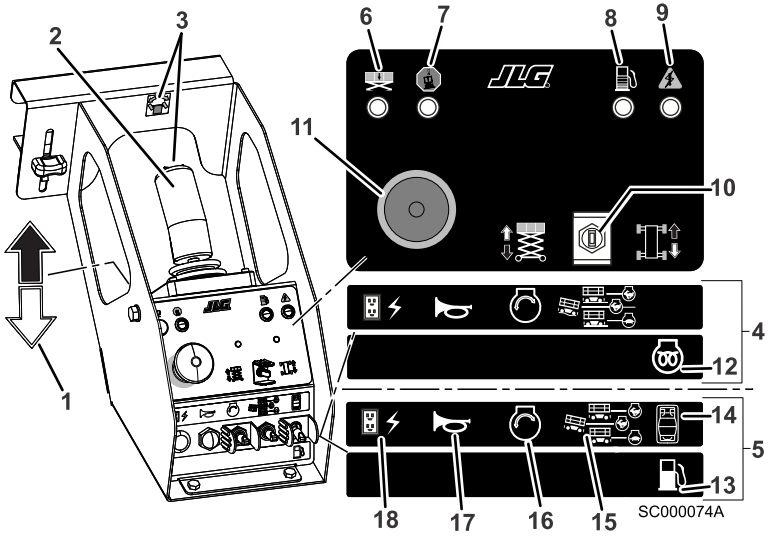



**Figure 6. Machines Not Equipped with Leveling Jacks**

1. Forward/Reverse/Lift/Lower Direction Arrow
2. Joystick Controller with Trigger Enable Switch
10. Two-Position Lift/Drive Select Switch
11. Emergency Stop Switch

3. Steer Control Switch and Decal
4. Control Indicators - Diesel
5. Control Indicators - Dual Fuel
6. Overload Indicator (LSS)
7. Machine Tilt Indicator
8. Low Fuel Level Indicator
9. System Fault Indicator
12. Glow Plug Switch (Diesel Only)
13. Gasoline Fuel Select (Dual Fuel Only)
14. Propane Fuel Select (Dual Fuel Only)
15. Speed Select Switch (High/Mid/Low)
16. Engine Start Switch
17. Horn Button
18. Generator Start Switch (If Equipped)

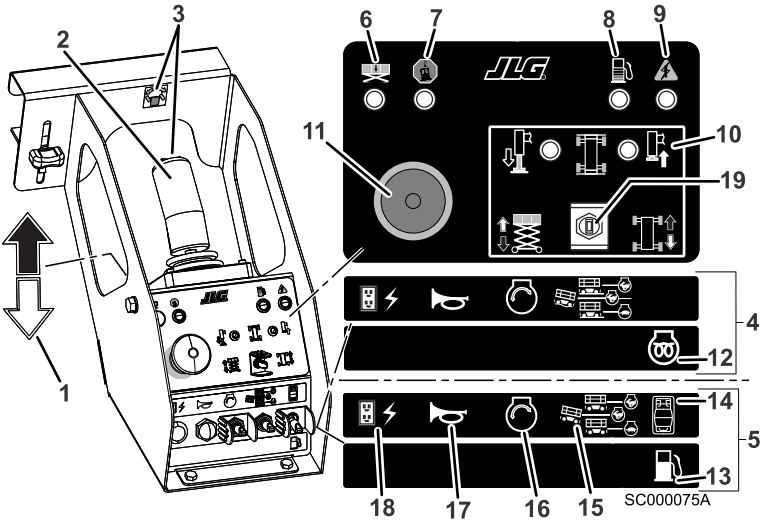



**Figure 7. Machines Equipped with Leveling Jacks**

1. Forward/Reverse/Lift/Lower Direction Arrow
2. Joystick Controller with Trigger Enable Switch
3. Steer Control Switch and Decal
4. Control Indicators - Diesel
5. Control Indicators - Dual Fuel
6. Overload Indicator (LSS)
7. Machine Tilt Indicator
8. Low Fuel Level Indicator
11. Emergency Stop Switch
12. Glow Plug Switch (Diesel Only)
13. Gasoline Fuel Select (Dual Fuel Only)
14. Propane Fuel Select (Dual Fuel Only)
15. Speed Select Switch (High/Mid/Low)
16. Engine Start Switch
17. Horn Button
18. Generator Switch - On/Off

9. System Fault Indicator

10. Leveling Jacks Button/LED Indicators

19. Three-Position Drive/Lift/Level Select Switch

### 3.7.1 Platform Controls

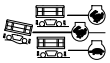
**NOTICE**

Control boxes should not be switched from one machine to another.

Control Indicators - Diesel - Appears on machines equipped with diesel engines.

Control Indicators - Dual Fuel - Appears on machines with a dual fuel option.

Drive Speed Switch - With the platform lowered, the three position drive speed switch permits the operator to select either high speed (3.5 mph - 5.6 kph), mid speed (2.0 mph - 3.21 kph), or low speed (1.0 mph - 1.61 kph). All three drive speeds use high engine speed. When platform is elevated above high drive cutout height, drive speed is reduced to (0.5 mph) regardless of Drive Speed Switch setting.



**⚠ CAUTION**

Do not use high range when driving in close quarters or when driving in reverse.

**Note:** High/mid/low drive speeds are disabled when the platform is raised above the high drive cutout height (refer to Section — User Responsibilities, Machine Preparation, and Inspection). When platform is lowered below high drive cutout height, high/ mid/low drive speeds are enabled.

**⚠ CAUTION**

Do not operate machine if high drive speed operates when platform is raised above the high drive cutout height.

Emergency Stop Switch - A two-position, red, mushroom-shaped emergency stop switch functions to provide power to the platform control station and also to turn off power to the platform function controls in the event of an emergency. With the power select switch positioned to platform, power is turned on by pulling the switch out (on), and is turned off by pushing the switch in (off ).



**NOTICE**

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

Engine Start Switch - A momentary contact, toggle switch that supplies electrical power to the starter solenoid when the emergency stop switch is in the ON position and the toggle switch is toggled upwards.



Forward/Reverse/Lift/Lower Direction Arrow - This arrow indicates the direction the joystick must be moved to operate machine functions. Notice the black and white ends of the arrow in relation to the control indicators.

Gasoline Fuel Select - In this position the switch is set up to change from propane to gasoline on a machine equipped with the dual fuel option.



Glow Plug Switch - (Diesel Engine Only) A momentary contact, push button type switch that supplies electrical power to the engine's glow plugs to assist cold starting. Once pressed, glow plugs are active for 20 seconds. Allow the glow plugs a few seconds to heat up before starting the engine within the time frame.



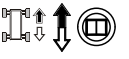
Generator Start Switch - (Optional) - This toggle switch, when used, turns the onboard generator on and sets the engine speed.



Horn - This push-button switch, when activated, permits the operator to warn jobsite personnel when the machine is operating in the area.



Joystick Controller with Trigger Enable Switch - The joystick controller controls four functions: drive, lift, leveling jacks, and steer. The drive, lift, or leveling jacks function switch must be selected and the trigger switch on the front of the control handle must be depressed and held prior to moving the control handle and during controller movement.



After selecting the drive function, depressing the trigger switch and moving the control handle forward will drive the machine forward and moving the control handle backwards will drive the machine backward.

After selecting the lift function, depressing the trigger switch and moving the control handle forward will lower the platform and moving the control handle backward will lift the platform up.

After selecting the leveling jack function, depressing the trigger switch and moving the control handle forward will extend all four leveling jacks. Moving the hand controller backward will retract the leveling jacks.

The speed on all selected functions, except leveling jacks, is proportionally controlled by the distance of travel of the hand controller.

**Note:** If the machine is also equipped with a footswitch (Korean Specification only), the footswitch must be depressed in conjunction with the trigger (enable) switch located on the controller. Power is removed from the platform controls when the footswitch is released.

Leveling Jacks (If Equipped) - To engage Leveling Jacks, select the Lift function on the three-position switch. Set and Retract LEDs will illuminate on the indicator pad when the control handle engages Set or Retract functions.
Moving the control handle forward (black arrow direction) will lower the leveling jacks. Moving the control handle backward (white arrow direction) will raise the leveling jacks. Once the machine is level the jacks will discontinue extending and the jack LED will stop blinking and stay lit.

Leveling Jacks Set - This indicator light will blink when the leveling jacks are being extended.



Leveling Jacks Retracting - This indicator light will blink when the leveling jacks are being retracted.



**Note:** After initial ground contact is made, the auto level function will pause 2-5 seconds and then begin to properly level the machine.

**Note:** There is an override feature on the Auto Leveling system that allows the operator to adjust (trim) the level of the machine to the left or right when the platform is completely lowered. Use the following instructions to adjust the level of the machine.

1. With the leveling jack switch activated, squeeze the trigger switch on the controller.
2. To adjust the leveling jacks to the left, activate the switch on top of the controller to the left. To adjust to the right, activate the switch on top of the controller to the right. The leveling jack indicator light for the side selected will be lit.

Low Fuel Indicator - This light will be illuminated when the fuel remaining in the fuel tank is getting low.

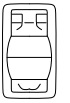


Overload Indicator (LSS) - Indicates the platform has been overloaded. An audible alarm will also signal when the platform is overloaded.



**Note:** If the Overload Indicator is activated while elevated above 14 ft (4.26 m), all functions will be prevented from the platform and ground controls. Reduce the weight in the platform to not exceed the rated workload indicated on the capacity decal, then the controls will work again.

Propane Fuel Select - In this position the switch is set up to change from gasoline to propane on a machine equipped with the dual fuel option.



Steer Switch/Leveling Trim Adjust - The steer switch/auto leveling trim adjust is located at the top of the control handle. Selecting the drive function then depressing the switch to the right will steer the wheels to the right. Depressing the switch to the left will steer the wheels to the left.
When auto leveling is selected this switch is used to manually adjust (trim) the leveling of the machine to the left or right. Refer to Manual Level Adjustment (Trim) for operating procedures.

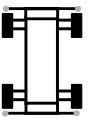


System Fault Indicator - This warning light will flash the appropriate distress code (flash code).



Three-Position Drive/Lift/Level Select Switch - Machines equipped with leveling jacks have a three-position switch that engages Drive/Lift/ Level functions.

1. Drive Select - When selected, drive function is active.
2. Lift Select - When selected, lift/lower functions are active.
3. Level Select - When selected, leveling jacks functions are active. Depress trigger switch and move control handle forward to lower leveling jacks, and move control handle backwards to raise leveling jacks.



Tilt Indicator Warning Light and Alarm - A red warning light on the control panel illuminates and an audible alarm sounds when the chassis is at or beyond the tilt cutout settings.

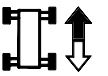


# ⚠ WARNING

If the tilt indicator warning light/alarm is activated when platform is raised lower platform and drive to a smooth, firm surface within the limits of the maximum operating slope.

Two-Position Drive/Lift Select Switch

1. Drive Select Switch - When selected, the drive function will be active. Depress the trigger switch and move the control handle in the forward or reverse direction will cause drive motion to occur at a speed determined by the range selected by the speed switch and the distance the controller is moved from center.



2. Lift Select - When selected, the lift/ lower function will be active. Depress the trigger switch and move the control handle in the forward or reverse direction will cause platform motion to occur at a speed determined by the distance the controller is moved from center.
In addition to normal operation, manual descent allows lift down with power on and engine off.



**⚠ CAUTION**

Do not lower without completely retracting the platform extension(s).

## 3.8 TRAVELING (DRIVING)

**⚠ WARNING**

Do not drive with platform raised except on a smooth, and level surface within the limits of the maximum operating slope, free of obstructions and holes. To avoid loss of travel control or upset on grades and sideslopes, do not drive machine on grades or sideslopes exceeding those specified in Section — General Specifications and Operator Maintenance.

### 3.8.1 Traveling Forward

1. Position the platform Emergency Stop Switch to the on position.
2. After starting engine press the drive select switch and move the control grip forward and hold for the duration of travel. Drive speed is determined by the distance the control handle is moved from the center off position. For additional drive speed, position the high speed switch to high while operating in the drive forward mode.

**Note:** To ensure proper operation of the desired platform function, move the joystick in the direction of the black or white arrow that matches the color of the arrow on the chassis for the intended direction of travel.

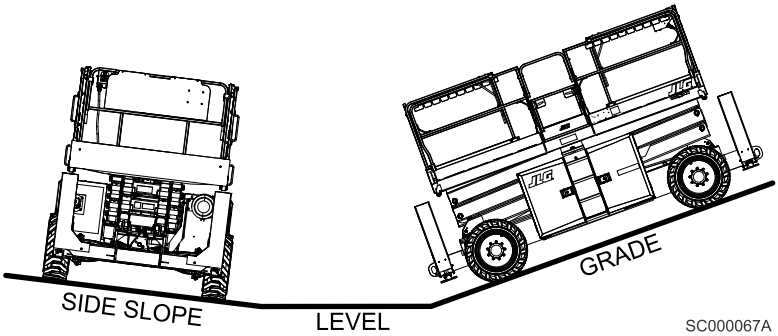
### 3.8.2 Traveling in Reverse

1. Position the Emergency Stop switch at the platform control station to the on position.
2. Press the drive switch and move the control handle backward (reverse) and hold for the duration of travel. Drive speed is determined by the distance the control handle is moved from the center off position. Do not activate the high engine speed switch when traveling in reverse.

**Note:** To ensure proper operation of the desired platform function, move the joystick in the direction of the black or white arrow that matches the color of the arrow on the chassis for the intended direction of travel.

## 3.9 TRAVELING (GRADE/SIDE SLOPE)

If driving at high drive up a grade and the incline exceeds 8° incline, the drive function will cut back to mid drive speed. The drive pump will shift back into high drive once the incline decreases to 5°. There will be a 2 second delay before the machine goes back to high drive.




## 3.10 STEERING

**Note:** When static steering is performed it will bring the engine up to high speed.

To steer the machine, the thumb operated steer control switch on the controller handle is positioned to the right for traveling right, or to the left for traveling left. When released, the switch will return to the center- off position and the wheels will remain in the previously selected position. To return the wheels to the straightened position, the switch must be activated in the opposite direction until the wheels are centered.

## 3.11 AUTO LEVELING JACKS

### 3.11.1 Leveling Jacks Operation

The machine may be equipped with auto leveling jacks with a manual adjust feature. These leveling jacks are activated through a switch on the platform console.

**Note:** When leveling jacks are activated, engine speed will run at high idle.

### 3.11.2 Auto Leveling

1. With the platform in the stowed position, turn the power on and start machine.
2. Select the Level function on the three-position switch on the platform control console.
3. While squeezing the trigger switch on the controller, move the controller forward to lower the leveling jacks.
4. Once the leveling jacks make contact with the ground surface, there will be up to a 5 second delay before the actual auto leveling begins.

**Note:** Due to varying ground conditions, there may be several delays between machine level corrections. Be sure ample time is allowed for all leveling adjustments to be completed.

5. Continue to engage the leveling jacks until the extend jacks LED stops blinking and is lit solid.

**Note:** The level adjustment of the machine may still be improved. (Refer to — Manual Level Adjustment (Trim), page 49).

**Note:** If a 2/5 flash code appears through the system fault light at the platform control station, the machine is unable to level. Reposition and try again.

6. To retract leveling jacks, press leveling jacks button and move the controller backward until jacks are fully retracted.

**Note:** There is a limit switch that senses when all four cylinders are fully retracted and this will light up the leveling jacks retracted LED on the platform control station.
The arm stack tilt sensor and the rotary angle (elevation) sensor work in conjunction to determine the machine is stowed. Failure of any of these sensors will prevent leveling jacks operation.

### 3.11.3 Manual Level Adjustment (Trim)

**Note:** There is an override feature on the leveling jack system that allows the operator to adjust (trim) the level of the machine to the left or right when the platform is completely lowered. Use the following instructions to adjust the level of the machine.

1. With the machine in the stowed position turn the power on, start machine, and engage Leveling Jacks function.
2. To adjust (trim) the machine to the right, activate the steer switch on the top of the controller to the right until the desired position is reached.
3. To adjust (trim) the machine to the left, activate the steer switch on the top of the controller to the left until the desired position is reached.

**Note:** Anytime the trim function is used there is a possibility that the machine may become out of level. At this time the machine will no longer lift but the machine can be lowered.

**Note:** The machine must be in the stowed position before the trim function is operable.

## 3.12 PLATFORM

### 3.12.1 Raising and Lowering Platform

**⚠ WARNING**

Do not raise platform except on a smooth, firm and level surface free of obstructions and holes.

There is a flow control valve which controls both the lift up and lift down speeds. Anytime lift direction abruptly changes, there is a three second delay between lift up and lift down.

1. **Raising**
   a. Position the applicable emergency stop switch(s) to the ON position.
   b. With the engine running, place the power select switch to desired position (platform or ground).
   c. If operating from the ground controls, position the lift switch to up and hold until desired elevation is achieved. If operating from the platform controls, set the lift/drive switch to lift, depress the trigger switch, then move the control handle backward and hold until desired elevation is reached. Lift speed is determined by the distance the control handle is moved from the off center position.
2. **Lowering**

**⚠ WARNING**

Ensure scissor arm area is free of personnel prior to lowering platform. Ensure platform extension(s) is completely retracted prior to lowering platform.

   a. If operating from the ground controls, position the lift switch to down and hold until desired elevation is achieved or until platform is fully lowered.
   b. If operating from the platform controls, press the lift switch and then move the control handle forward and hold until desired elevation is reached or until platform is fully lowered.

### 3.12.2 Arm Guards (If Equipped)

If the machine is equipped with electronic arm guards, the platform will stop lowering at a predetermined height and the machine's beacons will flash at a different rate to warn ground personnel. Machine lowering can continue after a three (3) second delay. Once the lowering function is re-engaged an audible alarm will sound. After a one and a half (1.5) second delay the platform will continue lowering.

### 3.12.3 Platform Extension

The machine is equipped with either single or dual deck extensions, which add 4 ft (1.2 m) to the front or rear of the platform, giving the operator better access to worksites.

To extend the deck, lift handle up on the right side of the platform (when facing deck extension) to release the latch and use the handle to push the extension deck out. When the deck reaches the end of its travel, push handle down to latch, this will lock and hold the deck in place. To retract the deck, reverse operation. Maximum weight capacity for each deck extension is 500 lb (227 kg).

**⚠ WARNING**

Do not lower without completely retracting the platform extension.

## 3.13 ENGINE OPERATION

**Note:** When operating a machine at high altitudes, a decrease in machine performance may occur due to a decrease in air density.
When operating a machine at high ambient temperatures, a decrease in machine performance and an increase in engine coolant temperature may occur.
Contact JLG Customer Service for operation under abnormal conditions.

### 3.13.1 Starting Procedure

**Note:** Perform initial start-up from Ground Controls.

1. Check engine oil before attempting to start engine; if necessary, add oil (refer to Operator Maintenance for details).
2. Pull out the red emergency stop switch (on).
3. Position the platform/ground select switch to the desired operating control station (platform or ground).
4. If operating a dual fuel machine, place the LP/gasoline select switch in the platform to the desired position.

**Note:** If LPG system is selected, ensure the hand valve on LPG supply tank is opened prior to attempting to start engine.

***NOTICE***

If engine fails to start promptly, do not crank for an extended period; do not run starter motor for more than 20 seconds. Should engine fail to start once again, allow starter to cool off for 2 to 3 minutes. If engine fails to start after several attempts, refer to engine manual.

5. To start machine:

   - **At Ground Controls:** Position emergency stop switch to on, depress start button, and hold until engine starts.
   - **At Platform Controls:** Position ground and platform emergency stop switch(s) to on, toggle start switch, and hold until the engine starts.

   If necessary, activate glow plug switch for up to 20 seconds before starting engine if temperature is below 50° F (10° C).

**NOTICE**

If indicator lights remain lit after engine start-up, stop engine immediately and determine cause.

**NOTICE**

Allow engine to warm up before applying any load.

6. After engine has warmed, proceed with operation.

## 3.14 DUAL FUEL SYSTEM (IF EQUIPPED)

**⚠ CAUTION**

It is possible to switch from one fuel source to the other without allowing the engine to stop. Extreme care must be taken and the following instructions must be followed.

### 3.14.1 Changing from Gasoline to Liquid Propane Gas (LPG)

1. Start the engine from the platform control station.
2. With the engine under a no load condition, open the hand valve on the LPG supply tank by turning counterclockwise.
3. While the engine is operating, place the two position LPG/gas select switch at the platform control station to LPG.

### 3.14.2 Changing from LPG to Gasoline

1. With the engine operating on LPG under a no load condition, position the LPG/gas select switch at the platform station to the gas select position.
2. If the engine ‘stumbles’ because of a lack of gasoline, place the switch to the LPG position until the engine regains smoothness, then return the switch to the gas select position. Repeat as necessary until the engine runs smoothly on gasoline.
3. Close the hand valve on the LPG supply tank by turning clockwise.

## 3.15 PLATFORM RAILS - FOLD-DOWN PROCEDURE

Refer to *Figure — Platform End Rails - Fold Down Sequence and Rail Pin Locations, page 54* and *Figure — Platform Side Rails - Fold Down Sequence and Rail Pin Locations, page 55* for fold-down procedure illustrations.

**⚠ WARNING**

Only fold down the rails when the machine is in the stowed (platform fully lowered) position. Do not raise the platform with the rails folded down. The rails must be in the upright position and properly pinned when raising the platform.

The platform end rails fold-down first. If platform is equipped with one or more platforms extension(s), both the main platform side rails and the extension platform side rails will be folded down together.

1. Remove the platform control box and place it on the platform deck. On both sides of machine, open swing gate and remove the pin on swing gate kick-plate to allow fold down later.
2. Pull platform end rail pins (two pins per end rail, see short arrows in *Figure — Platform End Rails - Fold Down Sequence and Rail Pin Locations, page 54*) and fold the platform end rails down onto the platform deck.
3. Pull platform extension side rail pins (one per rail set, see short arrows in *Figure — Platform Side Rails - Fold Down Sequence and Rail Pin Locations, page 55*), then fold down extension side rails.
4. Pull main platform side rail pins (four per rail set, see short arrows in *Figure — Platform Side Rails - Fold Down Sequence and Rail Pin Locations, page 55*), then fold down main platform side rails.
5. To raise the rails back to the upright position, unfold the rails in the reverse sequence they were folded. Firmly pull the rails back up into position and replace the rail pins into the rails.

**Note:** When returning platform side rails to upright position on platforms equipped with extensions, ensure the extension platform rail guide is interlocked over the main platform rail once both rails are completely upright.

**⚠ WARNING**

After the rails have been folded down, use extreme caution when exiting and entering the platform. Enter and exit platform only at the gate area and ladder provided.

# ⚠ WARNING

If driving machine with the platform control station from ground, do not hang the control box on any part of the machine while driving. Hold the control box and keep at least 3 ft (1 m) distance from machine.

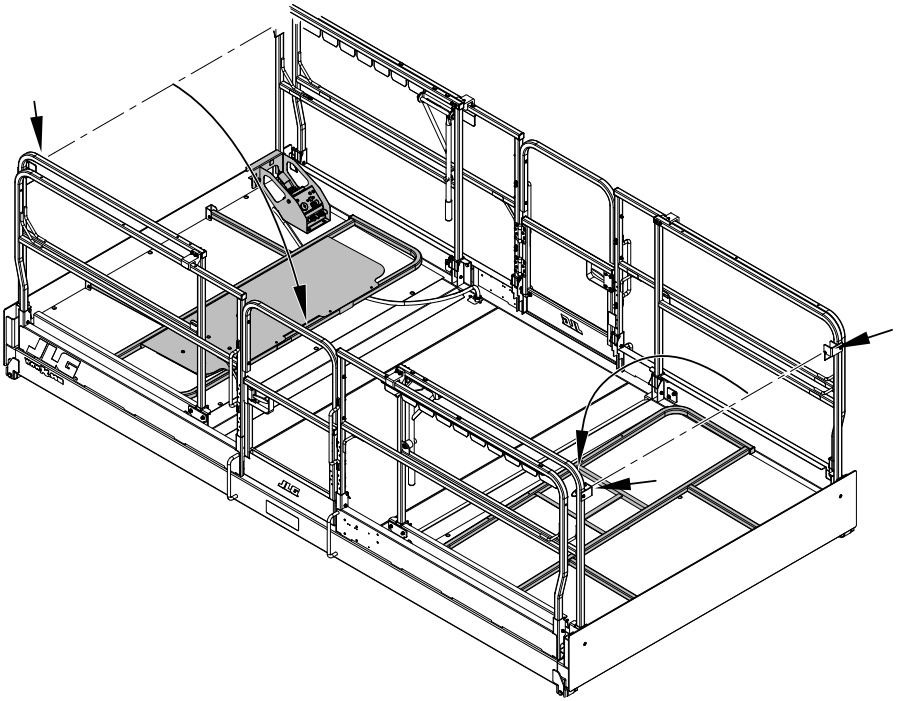


**Figure 8. Platform End Rails - Fold Down Sequence and Rail Pin Locations**

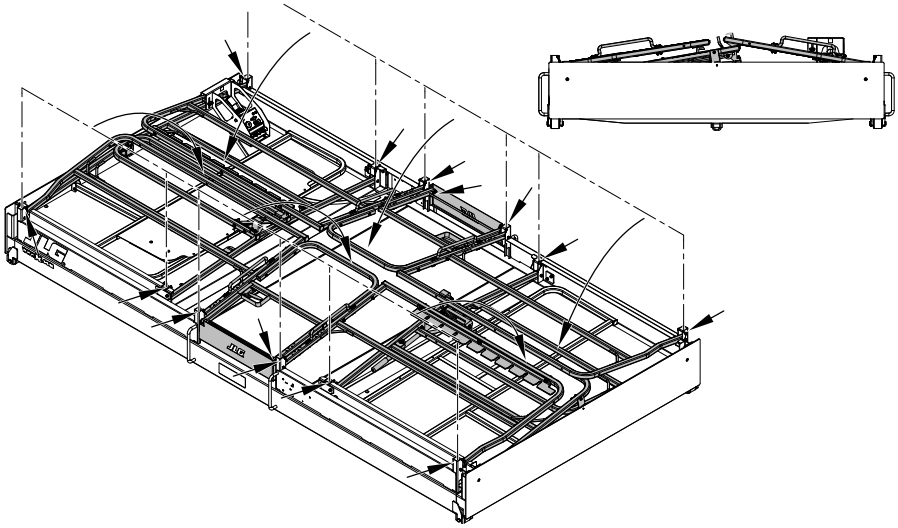


**Figure 9. Platform Side Rails - Fold Down Sequence and Rail Pin Locations**

## 3.16 PARKING AND STOWING

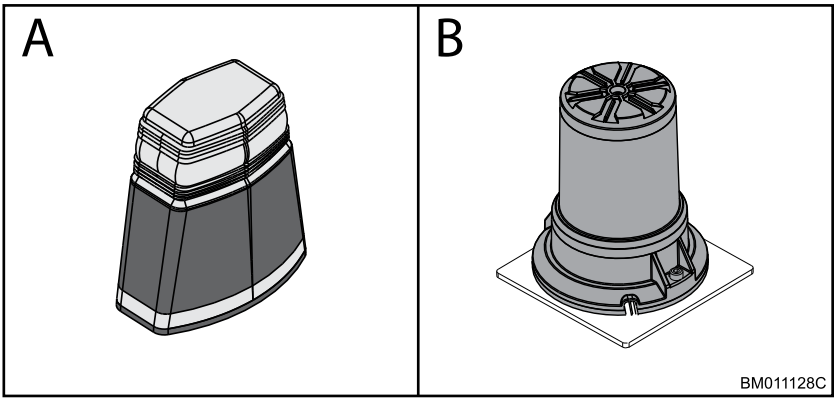
Park and stow the machine as follows:

1. Drive the machine to a reasonably well-protected and well ventilated area.
2. Ensure the platform is fully lowered.
3. Position the emergency stop switch to the off position.
4. If necessary, cover the instruction placards, caution and warning decals so that they will be protected from hostile environment.
5. Chock at least two wheels when parking the machine for an extended period of time.
6. Turn the platform/off/ground control select switch to off and remove the key to disable the machine and prevent unauthorized use.

## 3.17 TOWING

It is not recommended that this machine be towed, except in the event of an emergency such as a machine malfunction or a total machine power failure. Refer to *Section — Emergency Procedures* for emergency towing procedures.

## 3.18 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.

### 3.18.1 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.

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

### 3.18.2 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.

## 3.19 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.

## 3.20 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 drive speed is restricted to low speed and lift speed is reduced.
2. Speed and Function Restricted — Machine drive speed is restricted to low speed and the platform is restricted to a fully-lowered position. In this state, once the platform is fully lowered, it is not permitted to leave that defined position.
3. Locked Out — Machine has been locked out and will not operate (including engine start, if applicable).

**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.

## 3.21 TIE DOWN/LIFT LUGS

### 3.21.1 Tie Down

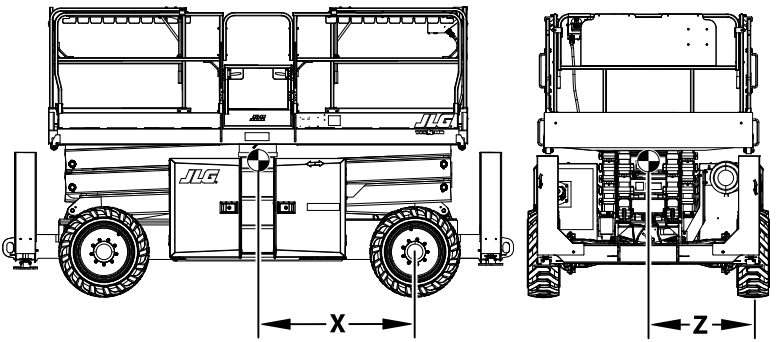
When transporting the machine, the platform extensions must be fully retracted and the platform fully lowered in the stowed position with the machine securely tied down to the truck or trailer deck. Refer to the four tie down/lift lugs eyes.

### 3.21.2 Lifting

If it becomes necessary to lift the machine, it is possible to do so from the tie down/ lift lugs. These lugs enable the machine to be lifted using cranes or other suitable lifting devices.

**Note:** If lifting becomes necessary from the lifting lugs, JLG Industries Inc. recommends the use of a proper spreader bar to avoid damage to the machine. Cranes or other lifting devices must be capable of handling the weights listed in Section — General Specifications and Operator Maintenance.

## 3.22 LIFTING AND TIE DOWN CHART




SC000069A

| MODEL(S) | WHEELBASE | | X | | Z | |
|---|---|---|---|---|---|---|
| | (in) | (cm) | (in) | (cm) | (in) | (cm) |

| | | | | | | |
|---|---|---|---|---|---|---|
| RT3394 | 117 | 297 | 58.5 | 148.6 | 39 | 99 |
| RT4394 | 117 | 297 | 58.5 | 148.6 | 39 | 99 |

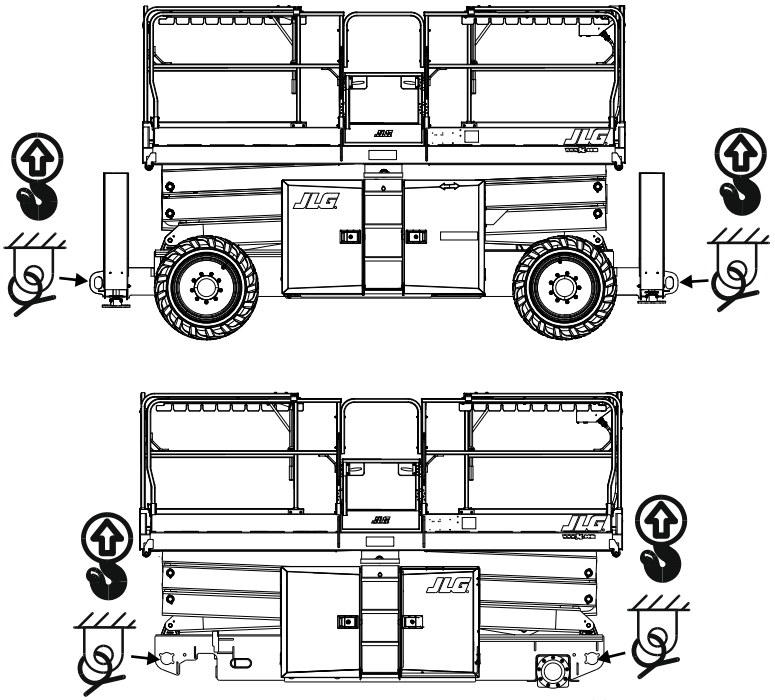



**Figure 10. With/Without Leveling Jacks**

**Note:** Wheels removed for illustrative purposes.

## 3.23 SAFETY DECALS

### 3.23.1 ANSI, ANSI Export Decals

**Note:** Exact size and placement of decals may differ based upon market.

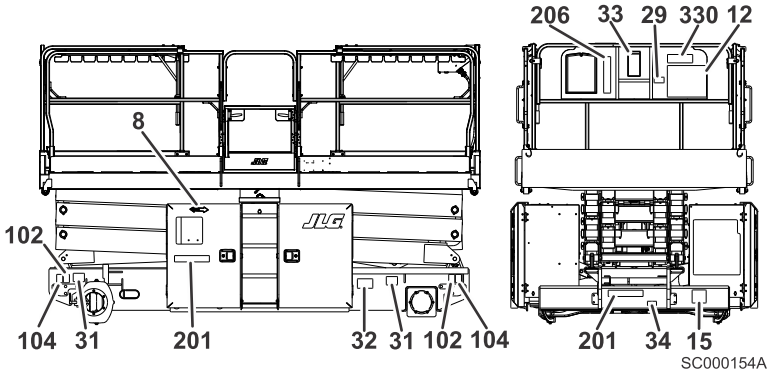



**Figure 11. Decal Locations — View 1**

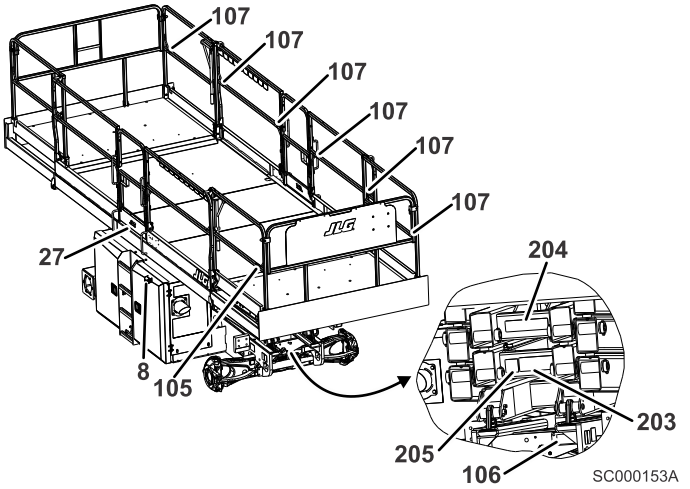



**Figure 12. Decal Locations — View 2**

| Item # | English — ANSI | French — CSA | English/Chinese | English/Spanish | Portuguese/Spanish | English/Korean |
|---|---|---|---|---|---|---|
| 8 | 1703687 | 1703687 | 1703687 | 1703687 | 1703687 | 1703687 |
| 12 | 1703816 | 1704684 | 1705195 | 1704691 | 1704699 | 1001162115 |
| 15 | - - | - - | 1704607 | - - | - - | - - |
| 27* | 4420067 | 4420067 | 4420067 | 4420067 | 4420067 | 4420067 |
| 29 | 1001231801 | - - | - - | - - | - - | - - |
| 31* | 1703493 | 1703493 | 1703493 | 1703493 | 1703493 | 1703493 |
| 32 | 1001223055 | 1001223971 | 1001224050 | 1001224049 | 1001224052 | 1001224048 |
| 33 | 1705679 | 1705679 | - - | 1705679 | 1705727 | 1705679 |
| 34 | 1001223453 | 1001223453 | - - | - - | - - | - - |
| 102* | 1703811 ** | 1703811 ** | 1703811 ** | 1703811 ** | 1703811 ** | 1703811 ** |
| 104* | 1703814 ** | 1703814 ** | 1703814 ** | 1703814 ** | 1703814 ** | 1703814 ** |
| 105* | 1703819 | 1703819 | 1703819 | 1703819 | 1703819 | 1703819 |
| 106 | 1703822 | 1703822 | 1703822 | 1703822 | 1703822 | 1703822 |
| 107* | 1704277 | 1704277 | 1704277 | 1704277 | 1704277 | 1704277 |
| 201* | 1703818 | 1704686 | 1705193 | 1704693 | 1704701 | 1001162111 |
| 203 | 1703823 | 1705040 | 1705944 | 1705041 | 1705043 | 1001162114 |
| 204 | 1704432 | 1705311 | 1705943 | 1705316 | 1705318 | 1001162113 |
| 205 | 1705019 | 1705019 | 1705019 | 1705019 | 1705019 | 1705019 |
| 206 | 1001192853 | 1001203075 | 1001192853 | 1001203076 | 1001203077 | 1001192853 |

| Item # | English — ANSI | French — CSA | English/Chinese | English/Spanish | Portuguese/Spanish | English/Korean |
|---|---|---|---|---|---|---|
| 330 RT3394 | | | | | | |
| Single Extension | 1001269842 | 1001269842 | 1001269842 | 1001269842 | 1001269842 | 1001269842 |
| Dual Extension | 1001269841 | 1001269841 | 1001269841 | 1001269841 | 1001269841 | 1001269841 |
| 330 RT4394 | | | | | | |
| Single Extension | 1001269840 | 1001269840 | 1001269840 | 1001269840 | 1001269840 | 1001269840 |
| Dual Extension | 1001269839 | 1001269839 | 1001269839 | 1001269839 | 1001269839 | 1001269839 |

* Both sides of machine.

** Location of #102 and #104 moves to leveling jacks when the option is installed.

### 3.23.2 CE, UKCA, AUS, and MOL70 Safety Decals

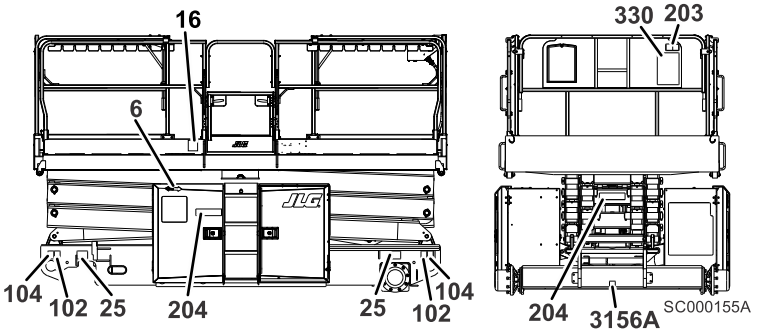



**Figure 13. Decal Locations — View 1**

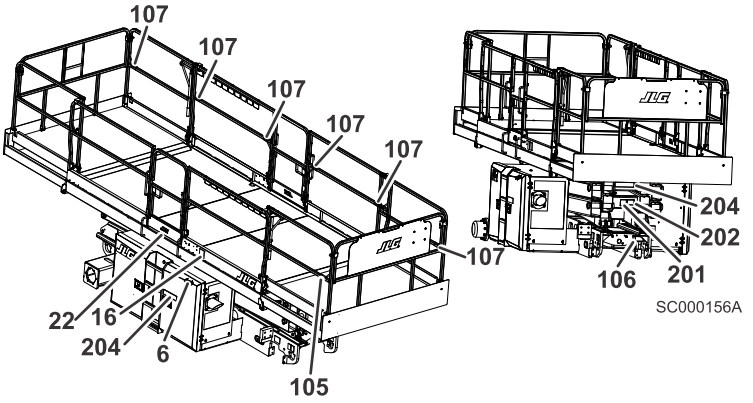



**Figure 14. Decal Locations — View 2**

| Item # | CE, UKCA, AUS, and MOL70 |
|---|---|
| 6* | 1703687 |
| 16 | 80463053 |
| 22* | 4420067 |
| 25* | 1703493 |
| 102* | 1703811 ** |
| 104* | 1703814 ** |
| 105* | 1703819 |
| 106 | 1703822 |
| 107* | 1704277 |
| 201 | 1705019 |
| 202 | 1705372 |

| Item # | CE, UKCA, AUS, and MOL70 |
|---|---|
| 203 | 1705671 |
| 204* | 1706338 |
| 3156A | 1001214029 |
| 330<br>RT3394 (MOL70) | 1001269842 (Single Extension)<br>1001269841 (Dual Extension) |
| 330<br>RT4394 (MOL70) | 1001269840 (Single Extension)<br>1001269839 (Dual Extension) |
| 330<br>RT3394 (CE/UKCA, AUS) | 1705034 (Single Extension)<br>1705035 (Dual Extension) |
| 330<br>RT4394 (CE/UKCA, AUS) | 1705036 (Single Extension)<br>1705037 (Dual Extension) |
| * Both sides of machine. | |
| ** Location of #102 and #104 moves to leveling jacks when the option is installed. | |

# SECTION 4
# Emergency Procedures

## 4.1 GENERAL

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

## 4.2 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, JLG must be contacted by telephone and provided with all necessary details.

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

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

***NOTICE***

Following any incident, thoroughly inspect the machine. Do not elevate the platform until it is certain that all damage has been repaired and that all controls are operating correctly. Test all functions first from the ground control station then from the platform control console.

## 4.3 EMERGENCY TOWING PROCEDURES

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

1. Ensure the machine is in the stowed position. Chock wheels securely.
2. Disengage drive hubs by reversing disconnect caps.
3. Connect suitable equipment, remove chocks, and move machine.

4. After moving machine, complete the following procedures:
   a. Position machine on a firm and level surface.
   b. Chock wheels securely.
   c. Engage drive hubs by reversing disconnect caps on hubs.
   d. Remove chocks from wheels as needed.

## 4.4 EMERGENCY OPERATION

### 4.4.1 Use of Ground Controls

**NOTICE**

Know how to use the ground controls in an emergency situation.

Ground personnel must be thoroughly familiar with the machine operating characteristics and the ground control functions. Training should include operation of the machine, review and understanding of this section and hands-on operation of the controls in simulated emergencies.

### 4.4.2 Operator Unable to Control Machine

If the platform operator is unable to operate or control the machine:

1. Other personnel should operate the machine from ground controls only as required.
2. Only qualified personnel on the platform may use the platform controls. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION NORMALLY.
3. Rescue equipment can be used to remove the platform occupant(s). Cranes and forklifts can be used to stabilize motion of the machine.

### 4.4.3 Platform Caught Overhead

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

1. Shut off the machine.
2. Rescue all people in the platform before freeing the machine. Personnel must be out of the platform before operating any controls on the machine.
3. Use cranes, forklifts or other equipment to stabilize motion of the machine to prevent a tip over as required.
4. From the ground controls, carefully free the platform from the object.
5. Once clear, restart the machine and return the platform to a safe position.

6. Inspect the machine for damage. If the machine is damaged or does not operate properly, turn off the machine immediately. Report the problem to the proper maintenance personnel. Do not operate the machine until it is declared safe for operation.

### 4.4.4 Righting of Tipped Machine

A fork truck of suitable capacity or equivalent equipment should be placed under the elevated side of the chassis, with a crane or other suitable lifting equipment used to lift the platform while the chassis is lowered by the forklift or other equipment.

## 4.5 PLATFORM MANUAL DESCENT CONTROL

The platform manual descent control is used in the event of total power failure to lower the platform using gravity. The manual descent control T-handle is located on the front right of the machine. Look for the instruction decal located beside the release handle.

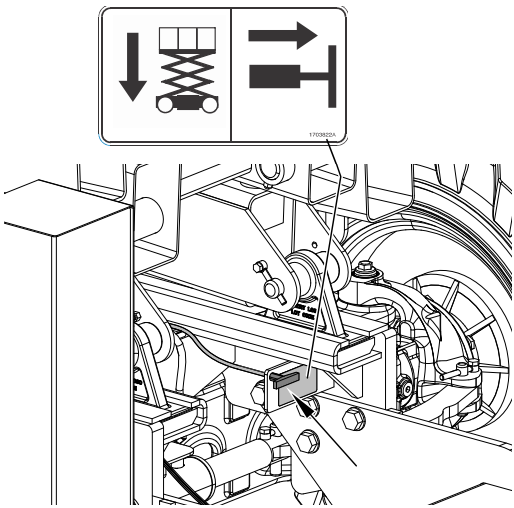
The lowering procedure is as follows:

1. Locate the manual descent control T-handle.

**⚠ WARNING**

Keep hands and arms out of the path of the scissor arms and platform while lowering.

2. Grasp the T-handle and slowly pull out to lower the scissor arms/platform. When the platform is lowered to desired level, allow the T-handle to return to its closed position.



## 4.6 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***

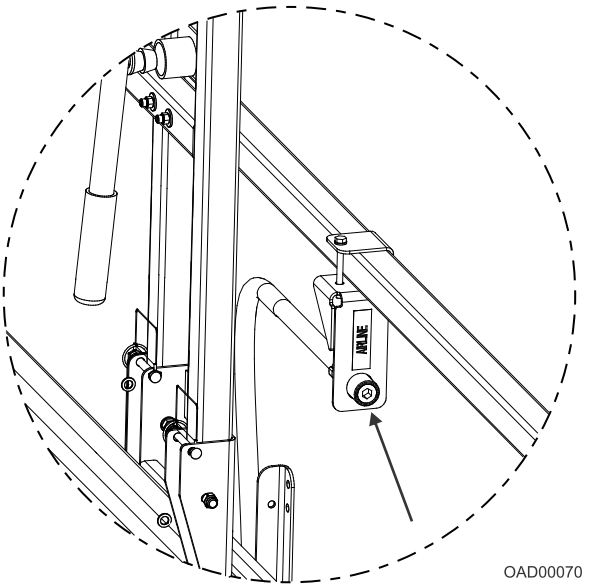
Contact the ClearSky Smart Fleet™ account owner if the machine is in a Locked Out state.

# SECTION 5
# Accessories

## 5.1 AVAILABLE ACCESSORIES

| Accessory | Market | | | | | |
|---|---|---|---|---|---|---|
| | ANSI (USA Only) | ANSI Export | CSA | CE/ UKCA | AUS | MOL70 |
| 1/2” Air Line | X | X | X | X | X | X |
| Heavy Duty Pipe Racks | X | X | X | X | X | X |
| Large Material Racks | X | X | X | X | X | X |
| Pipe Racks | X | X | X | X | X | X |
| Platform Rail Padding | X | X | X | X | X | X |
| Platform Work Lights | X | X | X | X | X | X |
| SkyPower® — 7.5 kW | X | X | X | | X | X |
| Generator — 4 kW | X | X | X | X | X | X |
| SkySense® | X | X | X | X | X | X |
| Work Station | X | X | X | X | X | X |

## 5.2 1/2” AIR LINE




The 1/2” Air Line is a fitting for air-powered tools that is mounted in the platform.

## 5.3 FOOTSWITCH

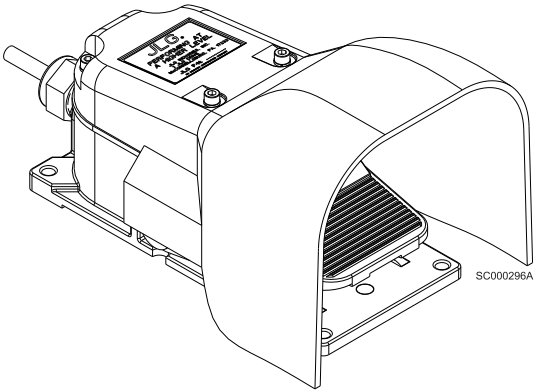



**Figure 15. Footswitch Assembly**

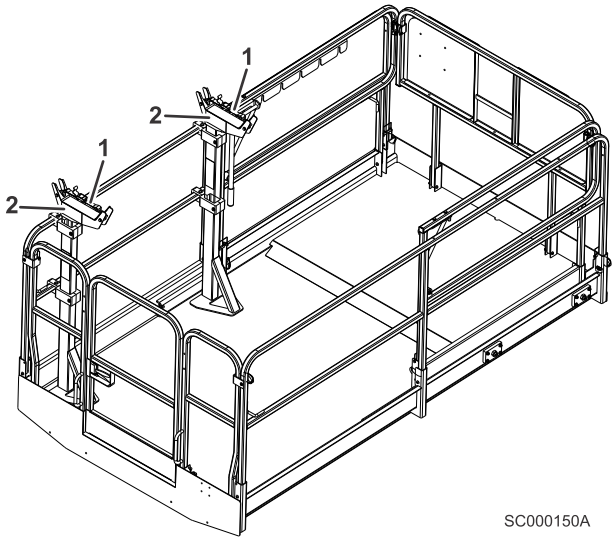
The footswitch, mounted to the platform floor, serves as another enable switch in the function control circuit. It must be depressed in sequence with the platform control joystick trigger switch to enable operation of machine functions when using the platform controls. Power is removed from the platform controls when the footswitch is released.

**Note:** This accessory is only available in Korean markets.

### 5.3.1 Operation

To operate a function, engage the footswitch and joystick trigger in any sequence before operating a function.

## 5.4 HEAVY DUTY PIPE RACKS




1. Adjustable Strap and Hook
2. Capacity Decal

**Note:** Platform configuration may vary depending on machine.

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

### 5.4.1 Safety Precautions

**⚠ WARNING**

This accessory affects overall platform capacity. Refer to the accessory's capacity decal and adjust accordingly. Weight in racks plus weight in platform must not exceed rated capacity.

***NOTICE***

Retract platform extension before loading material.

- Ensure no personnel are beneath the platform.

- Do not exit platform over rails, or stand on rails.
- Do not drive machine without material secured.

### 5.4.2 Preparation and Inspection

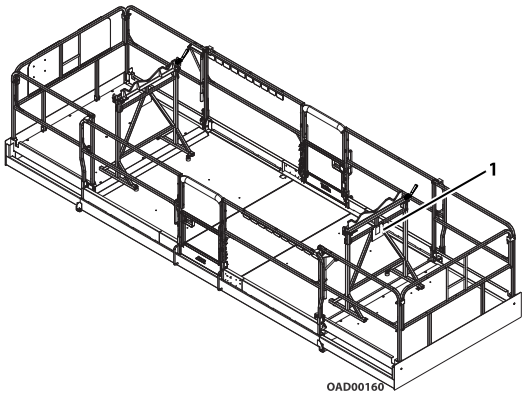
- Ensure racks are secured to the platform floor. Torque loose nuts or bolts as required
- Check for missing or damaged components. Replace if necessary

### 5.4.3 Operation

1. Place material onto racks with weight evenly distributed between both racks.
2. Route the adjustable straps at each end across loaded material. Hook into place and tighten until secure.
3. To remove material, loosen and unhook adjustable straps, then carefully remove material from racks.

**Note:** Reinstall straps across any remaining material before continuing machine operations.

## 5.5 LARGE MATERIAL RACKS




1. Capacity Decal

The Large Material Racks are mounted to the platform floor and are designed to carry flat panels or sheets and pipe/ducts. The racks may be used with both single and dual deck extensions.

### 5.5.1 Safety Precautions

**⚠ WARNING**

Multiple material-handling accessories may be installed but only one may be loaded at a time unless approved by JLG Industries, Inc.

**⚠ WARNING**

This accessory affects the overall platform capacity. Refer to the capacity decal and adjust accordingly. Weight in racks plus weight in platform must not exceed rated capacity.

***NOTICE***

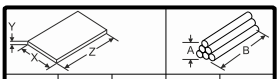
Maximum weight of material on racks is 860 lb (390 kg).

***NOTICE***

Maximum rated wind speed is 28 mph (12.5 m/s). Maximum manual force is 90 lb (400 N).

***NOTICE***

Maximum dimensions for approved material are as follows:




| X | Y | Z | A | B |
|---|---|---|---|---|
| 1.5m (59 in) | 0.4m (16 in) | 2.5m (8 ft) | 0.4m (16 in) | 6 m (20 ft) |

- Do not drive machine without material secured.
- Do not exit the platform over the rails, or stand on the rails.

### 5.5.2 Preparation and Inspection

- Ensure racks are secured to the platform floor. Torque loose nuts or bolts as required.
- Check for missing or damaged components. Replace if necessary.

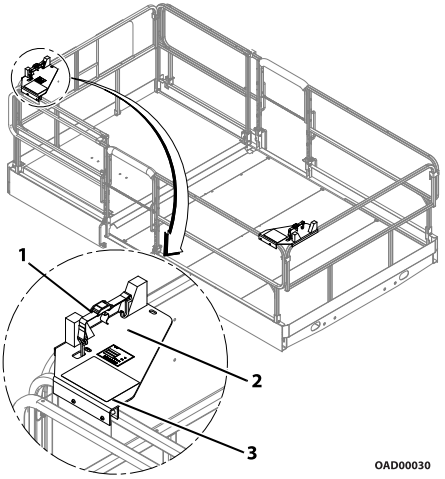
### 5.5.3 Operation

1. Position material on racks with weight evenly distributed between both racks.

2. Route the tie-down straps at each end across loaded material. Hook into place and tighten until secure.

3. To remove material, unhook tie-down straps, then carefully remove material from racks.

## 5.6 PIPE RACKS




1. Adjustable Strap
2. Attach Hook
3. Capacity Decal

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

### 5.6.1 Safety Precautions

**⚠ WARNING**

This accessory affects overall platform capacity. Refer to capacity decals and adjust accordingly. Weight in racks plus weight in platform must not exceed rated capacity.

***NOTICE***

Retract platform extensions before attaching pipe racks and loading material.

# NOTICE

Maximum load in racks is 570 lb (260 kg) evenly distributed between the two racks. Maximum length of material is 20 ft (6 m). Maximum diameter of material is 10" (254 mm).

# ⚠ WARNING

Multiple material-handling accessories may be installed but only one may be loaded at a time unless approved by JLG Industries, Inc.

- Ensure no personnel are beneath the platform.
- Do not exit platform over rails, or stand on rails.
- Do not drive machine without material secured.

### 5.6.2 Preparation and Inspection

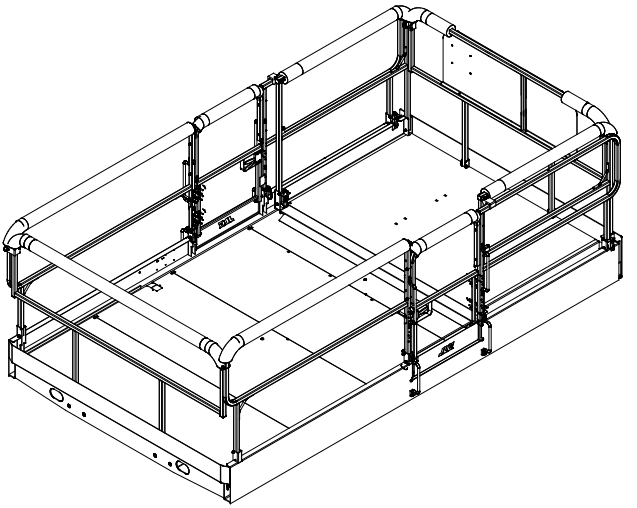
- Ensure racks are secured to platform rails.
- Replace torn or frayed straps.
- Remove racks from platform when not in use.

### 5.6.3 Operation

1. Attach racks to platform rails.
2. Place material onto racks with weight evenly distributed between both.
3. Route the straps at each end across loaded material and attach the hooks. Tighten straps until secure.
4. To remove material, loosen straps, then carefully remove material from racks.

**Note:** Reinstall straps across any remaining material before continuing machine operations.

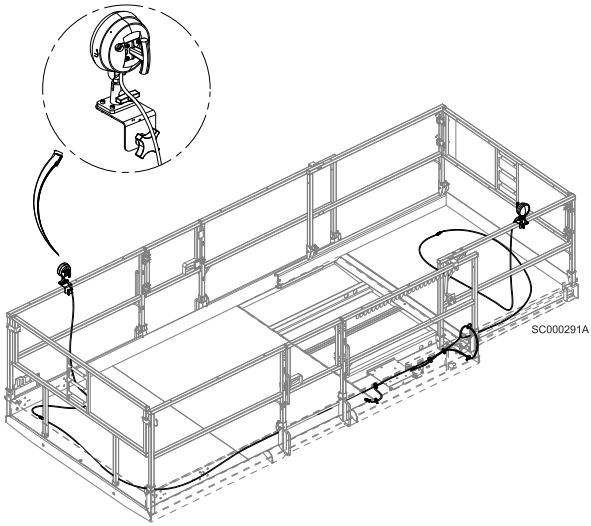
## 5.7 PLATFORM RAIL PADDING



SC000901A

Platform rail padding provides bumpers to the top platform rails in order to prevent damage to the platform itself as well as objects it may come into contact with during operation.

## 5.8 PLATFORM WORK LIGHTS




The platform work lights accessory consists of two 12V lights mounted to the platform railings.

## 5.9 SKYPOWER® 7.5 KW AND GENERATOR 4 KW

The SkyPower and generator system supplies AC power from a generator in the engine compartment to an AC receptacle in the platform.

All power regulation components are located in a watertight box connected by cable to the generator. The generator supplies power when running at the specified speed with the power switch on (switch is located on platform). A two-pole, 20 Amp (4 kW) or three-pole, 30 Amp (7.5kW) circuit breaker protects the generator from overload.

### 5.9.1 Output

**SkyPower 7.5 kW Specifications:**

- 3-phase: 240 V, 60 Hz, 7.5 kW (Peak: 8.5 kW)
- 1-phase: 240 V/120 V, 60 Hz, 6 kW (Peak: 6 kW)

**Generator 4 kW Specifications:**

- 1-phase: 240V/120 V, 60Hz, 4 kW
- 1-phase: 230V/115 V, 50Hz, 4 kW

### 5.9.2 Safety Precautions

**⚠ WARNING**

Do not overload platform.

- Ensure no personnel are beneath platform.
- Keep lanyard attached at all times.
- Do not use electrical tools in water.
- Use correct voltage for tool being used.
- Do not overload circuit.

### 5.9.3 Preparation and Inspection

- Ensure generator is secure.
- Check condition of belt and wiring.

### 5.9.4 Operation

Start the engine, then turn on the generator.

Refer to the Miller Generator Technical Manual (PN 3128957) for more information.

## 5.10 SKYSENSE®

### 5.10.1 General Information

**⚠ WARNING**

SkySense is not intended to replace or reduce the need for the operator to be aware of the environment around the machine. hazards that will cause serious injury or death may not be prevented or reduced by SkySense. The operator must always look in the direction of travel, avoid power lines, avoid obstacles that could strike the machine or persons in the platform, and follow all instructions on machine placards and in this manual.

The operator must not rely on SkySense as a substitute for following the instructions and warnings on machine placards and in this manual.

***NOTICE***

Read and understand these instructions in their entirety before operating the machine.

**NOTICE**

SkySense is intended to assist the operator. SkySense may not detect certain objects depending on shape, type of material, or orientation of the object to the sensors. It is the operator's responsibility to be aware of their surroundings at all times.

**Note:** SkySense is not active when operating the machine from the ground controls.

### 5.10.2 Preparation and Inspection

Pre-Operation Inspection:

1. Inspect each of the SkySense tubes for dents, cracks, or other damage.
2. Inspect each Skysense sensor for any damage to the housing or sensor.

To test the system:

1. Ensure there are no obstructions within 10 feet around or above the platform and the machine is on a smooth, firm surface within the limits of the maximum operating slope.
2. From the platform control console, lift and lower the platform.
3. Place a hand or object 6" to 12" above one of the sensors, then lift up the platform. Platform movement should stop, the LED indicator should be red, and the alarm should sound. If the alarm is muted, the mute button light should be red.
4. Release the joystick and enable switch.
5. Place a hand or object 6" to 12" above one of the sensors. Press the override button on the notification unit and lift the platform. The platform should lift, the LED indicator should be red, and the alarm should sound. If the alarm is muted, the mute button light should be red.
6. Remove hand or object from the sensor zone, then release the joystick and enable switch. Lower the platform to stowed.
7. Lift the platform with no hand or object above the sensor. The platform should lift without interruption.
8. Lower the platform to stowed.

### 5.10.3 Operation

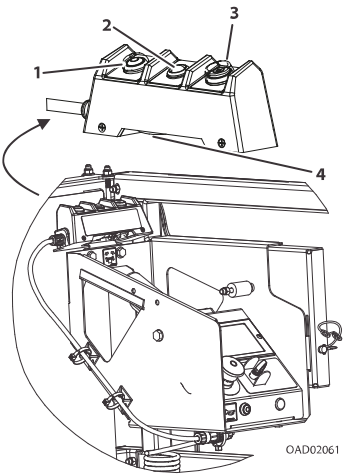
SkySense slows a machine's drive speed to elevated drive speed when it is a certain distance away from an object, known as the "warning zone." If the machine continues to approach the object and moves into the "stop zone," SkySense stops all machine functions.

For proportional functions that are activated by the joystick, the size of the warning zone varies based on the amount of joystick activation. The stop zone always activates at the same distance from the object regardless of the joystick's position.

SkySense is active during the following functions:

- Lift Up
- Drive Forward
- Drive Reverse

### 5.10.4 Notification Assembly




1. Override Button
2. Bi-Color LED
3. Indicator Speaker OFF
4. Indicator Speaker (Underneath Unit)

### 5.10.5 LED Indicator

A bi color LED indicator on the platform control box signals SkySense activity.

- **No LED:** Normal operation.
- **LED Flashing Yellow:** Machine is in SkySense warning zone and will reduce to elevated drive height speed. Flash frequency correlates to proximity of the object.

- **LED Red:** Machine is in SkySense stop zone and all machine functions will cease.
- **LED Flashing Red:** SkySense sensor is obstructed or damaged. Obstructions must be removed and proper function verified. Damaged sensors must be replaced.

### 5.10.6 SkySense Alarm

Activation of SkySense is also signaled by an audible alarm that indicates SkySense activity when reaching the warning or stop zones.

In the warning zone, the audible alarm will pulse and increase in frequency as the machine moves closer to the object. In the stop zone, the alarm will sound a continuous tone.

Additionally, when the machine is in the stop zone, the platform control panel audible alarm will sound, indicating activation of the Soft Touch system. Reset the system by releasing the trigger switch.

Audible SkySense alarms can be muted, although LEDs will continue to light.

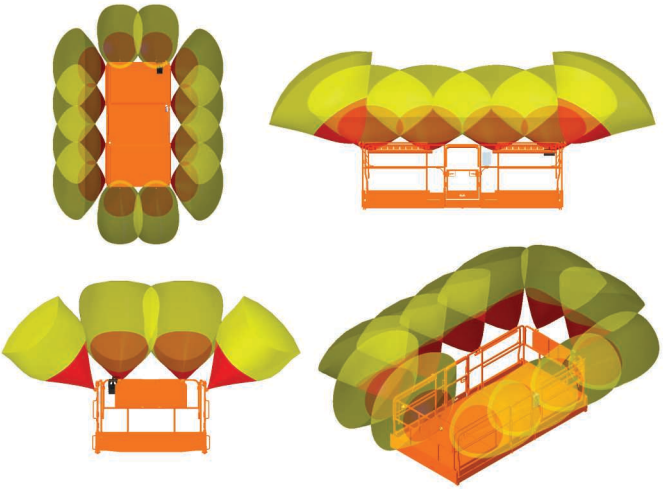
### 5.10.7 Override Button

The yellow override button allows operators to bypass normal SkySense operation in order to move closer to an object within the stop zone.

When the operator overrides SkySense via the override button to get closer to a work surface, the machine will maintain creep speed and flash the appropriate indicator color based on location in either the warning or stop zones.

**Note:** Override button is only required to be engaged if the operator desires to move the platform closer to an object that is in or entering the stop zone.

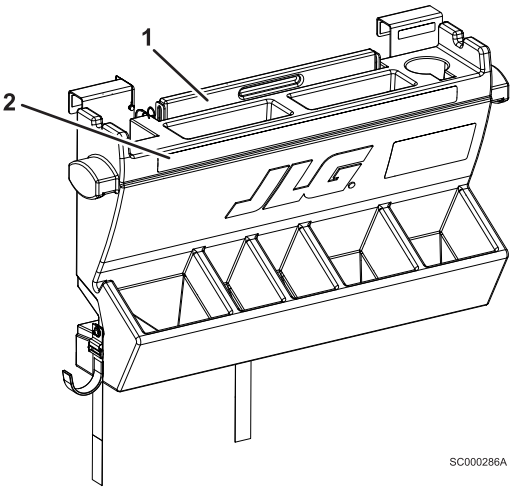
### 5.10.8 SkySense Coverage Areas



**Level Three**

**Note:** Sensor Cones shown are approximations for reference only.

## 5.11 WORK STATION




1. Adjustable Work Surface
2. Capacity Decal

The work station offers an adjustable work surface and additional space for storage of tools and objects.

**Note:** Work station may be attached to handrails anywhere in platform unless machine is equipped with another accessory or option. If another accessory or option is present, the work station must be located on opposite side of platform.

### 5.11.1 Safety Precautions

**⚠ WARNING**

This accessory affects the platform capacity. Refer to the capacity decal and adjust accordingly. Do not overload the platform.

- Return the adjustable work surface to the stowed position when finished working.
- Do not drive the machine unless materials are properly secured or stored.

### 5.11.2 Preparation and Inspection

- Ensure the work station is secured to the platform.
- Check for missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. Torque to JLG Torque Chart Specifications if necessary.
- Replace any missing or illegible decals.

### 5.11.3 Operation

To use the adjustable work surface, lift the handle and position across the work station.

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# SECTION 6
# Machine Specifications and Operator Maintenance

## 6.1 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.

## 6.2 MACHINE SPECIFICATIONS

| Model | RT3394 | RT4394 |
|---|---|---|
| Maximum Occupants | | |
| Single Extension Platform: | 6 | 6 |
| Dual Extension Platform: | 6 | 5 |
| Maximum Workload (Capacity): | | |
| Single Extension Platform: | 2,250 lb (1020 kg) | 1,500 lb (680 kg) |
| Dual Extension Platform: ANSI/ANSI Export/CSA/MOL70 | 2,000 lb (905 kg) | 1,250 lb (568 kg) |
| CE/UKCA/AUS | 905 kg | 565 kg |
| Max. on Extension (Each): ANSI/ANSI Export/CSA/MOL70 | 500 lb (227 kg) | 500 lb (227 kg) |
| CE/UKCA/AUS | 225 kg | 225 kg |
| Maximum Stowed Travel Grade - Gradeability | 45% (24°) | |
| Maximum Stowed Travel Grade - Sideslope | 5° | |
| Maximum Platform Working Height | 33 ft (10m) | 43 ft (13.11 m) |
| Maximum Drive Height | 33 ft (10 m) | 43 ft (13.11 m) |
| Maximum Drive Speed | | |

| Model | RT3394 | RT4394 |
|---|---|---|
| Platform Lowered: High<br>Mid<br>Low<br>(> 9 ft 6 in) Platform Elevated: | 3.5 mph (5.6 kph)<br>2.0 mph (3.21 kph)<br>1.0 mph (1.61 kph)<br>0.5 mph (0.8 kph) | |
| Lift Up Speed (At Rated Load) (Stowed to Full Height) | 35 seconds | 45 seconds |
| Lift Down Speed (At Rated Load) (Full Height to Stowed) | 37 seconds | 47 seconds |
| Electronic Arm Guards (Pause Height) (Platform Floor to Ground) | 75 in (191 cm) | 84 in (213 cm) |
| Maximum Wind Speed | 28 mph (12.5 m/s) | |
| Maximum Horizontal Manual Side Force | 90 lb (400 N) | |
| Maximum Tire Load (Each) | 4,400 lb (1996 kg) | |
| Ground Bearing Pressure w/ Standard Tires | 48 psi (3.37 kg/cm2) | 56 psi (3.94 kg/cm2) |
| Leveling Jack Pad Bearing Pressure | 69 psi (4.85 kg/cm2) | 69 psi (4.85 kg/cm2) |
| Hydraulic System Pressure<br><br>Main Relief:<br>Lift Up Relief:<br>Steer Relief:<br>Leveling Jack Relief: | <br><br>2700 psi (186 bar)<br>2700 psi (186 bar)<br>2500 psi (172 bar)<br>2500 psi (172 bar) | |
| Electrical System Voltage | 12 Volt | |
| Inside Turning Radius | 106.5 in (2.70 m) | |
| Maximum Allowable Operating Slope (Platform Fully Elevated)<br><br>Front to Back:<br>Side to Side | <br><br>5°<br>3° | <br><br>5°<br>3° |
| Operating Temperature | See Figure — Hydraulic Oil Operating Temperature Specifications through Figure — Engine Oil Operating Temperature Specifications - Kubota (Diesel Engine) | |
| Outside Turning Radius | 233.5 in (5.93 m) | |
| Gross Vehicle Weight (Dual Fuel/Diesel) | | |

| Model | RT3394 | RT4394 |
|---|---|---|
| with One Extension:<br>with Two Extensions:<br>with Mega Deck: | 11,820 lb (5372 kg)<br>12,350 lb (5614 kg)<br>14,225 lb (6466 kg) | 14,300 lb (6486 kg)<br>14,830 lb (6727 kg)<br>N/A |
| **Note:** Certain options or country standards increase weight. | | |

### 6.2.1 Generator Specifications (If Equipped)

| | |
|---|---|
| Type: | Brush Type, Synchronous, Revolving Field |
| Regulation:<br>3 Phase:<br>1 Phase:<br>1 Phase:<br>Peak: | <br>240 Volt, 7.5 kW, 18.3 Amps, 1.0 pf<br>240 Volt, 6 kW, 26 Amps, 1.0 pf<br>120 Volt, 6 kW, 50 Amps, 1.0 pf<br>3 Phase - 8.5 kW, - 1 Phase - 6.0 kW |
| Max. Rated Temperature: | 104° F (40° C) |

### 6.2.2 Dimensional Data

| | RT3394 | RT4394 |
|---|---|---|
| Wheelbase | 117 in (297 cm) | |
| Ground Clearance (center/platform stowed) | 13.60 in (34.5 cm) | |
| Machine Height (top of rails/platform stowed) | 109 in (277 cm) | 118 in (300 cm) |
| Machine Width | 92.5 in (235 cm) | |
| Machine Length | 192.2 in (488.3 cm) | |

### 6.2.3 Fluid Capacities

| | |
|---|---|
| Fuel Tank<br>Diesel<br>Gasoline<br>LP Tank | <br>22 gal (83.3 L)<br>22 gal (83.3 L)<br>43.5 lb (20 kg) |
| Hydraulic Tank | 32.3 gal (122.2 L) |
| Engine Coolant | 7 qt (6.67 L) |
| Engine Oil<br>Diesel<br>Dual Fuel | <br>6 qt (5.7 L)<br>3.6 qt (3.4 L) |

| | |
|---|---|
| Drive Brake (Each) | 2.7 oz (0.08 L) |
| Drive Hub (Each) | 17 oz (0.5 L) |

### 6.2.4 Tires

| Size | Ply Rating | Foam Fill Tire Assembly Rating | Wheel Nut Torque |
|---|---|---|---|
| 12 x 16.5 Foam Filled (Non-Marking) | 10 | 90 psi @ 8,000 lb (3700 kg) - Static Load | 170 ft.lb. -DRY (230 Nm) |
| 33/1550 x 16.5 Foam Filled | 14 | 90 psi @ 14,176 lb (6430 kg) - Static Load | 170 ft.lb. -DRY (230 Nm) |
| 33/16LL x 16.1 Foam Filled (Sand Tire) | 10 | 38 psi @ 10,300 lb (4672 kg) - Static Load | 170 ft.lb. -DRY (230 Nm) |
| 315/55/D20 Foam Filled | 12 | 80 psi @ 9,650 lb (4377 kg) - Static Load | 170 ft.lb. -DRY (230 Nm) |

## 6.3 ENGINE SPECIFICATIONS

**Table 6. Kubota Diesel D1305–E4B (IJ297–23000)**

| Specification | Value |
|---|---|
| Emissions | CARB, EPA Tier 4 Final, EU Stage V, China IV |
| Fuel Type | Diesel:<br>- Low Sulfur (<500 ppm)<br>- Ultra Low Sulfur (15 ppm) (Required to meet EPA Tier 4 Final, EU Stage V)<br>- Up to 5% biodiesel |
| Number of Cylinders | 3 |
| Engine RPM Control | Engine Control Unit (ECU) |
| Low RPM Set | 1300 RPM |
| High RPM Set | 2600 RPM |
| Alternator | 40 Amp, 12 V, Belt-Driven |
| Battery | 69 Amp-Hour, 700 Cold-Cranking Amps, 12 V DC |
| Fuel Consumption | |
| Low RPM | 0.41 gal/hr (1.5 L/hr) |
| High RPM | 2.0 gal/hr (7.6 L/hr) |

**Table 6. Kubota Diesel D1305–E4B (IJ297–23000) (continued)**

| Specification | Value |
|---|---|
| Displacement | 1.261 L (77 cu. in.) |
| Gross Power | 23.3 Hp (17.4 kW) @ 2600 RPM |
| Gross Torque | 56.3 lb·ft (76.4 Nm) @ 1700 RPM |

**Table 7. Kubota Dual Fuel (WG972–GL-E4)**

| Specification | Value |
|---|---|
| Emissions | CARB, EPA Phase 3 |
| Fuel Type | Gasoline — 87 Octane minimum<br>- Ethanol/Gas Mix — 10% maximum<br>- Methanol/Gas Mix — 5% maximum<br>- LP (Liquid Petroleum) |
| Number of Cylinders | 3 |
| Engine RPM Control | Engine Control Unit (ECU) |
| Low RPM Set | 1400 RPM |
| High RPM Set | 3500 RPM |
| Alternator | 40 Amp, 12V, Belt-Driven |
| Battery | 69 Amp-Hour, 700 Cold-Cranking Amps, 12V DC |
| Fuel Consumption (Gas)<br>Low RPM<br>High RPM | <br>0.38 gal/hr (1.45 L/hr)<br>1.76 gal/hr (6.66 L/hr) |
| Fuel Consumption (LP)<br>Low RPM<br>High RPM | <br>1.85 lb/hr (0.84 kg/hr)<br>9.3 lb/hr (4.23 kg/hr) |
| Displacement | 0.962 L (58.7 cu. in.) |
| Gross Power | Gas — 31.1 Hp (23.2 kW) @ 3600 RPM<br>LP — 29.5 Hp (22.0 kW) @ 3600 RPM |
| Gross Torque | Gas — 49.1 lb·ft (66.6 Nm) @ 2400 RPM<br>LP — 48.8 lb·ft (66.2 Nm) @ 1800 RPM |

## 6.4 ENGINE OIL OPERATING TEMPERATURE

**NOTICE**

Machine operation using non-JLG approved engine oil or operation outside of the temperature boundaries outlined in the “Engine Oil Operating Temperature” charts may result in premature wear or damage to components of the engine.

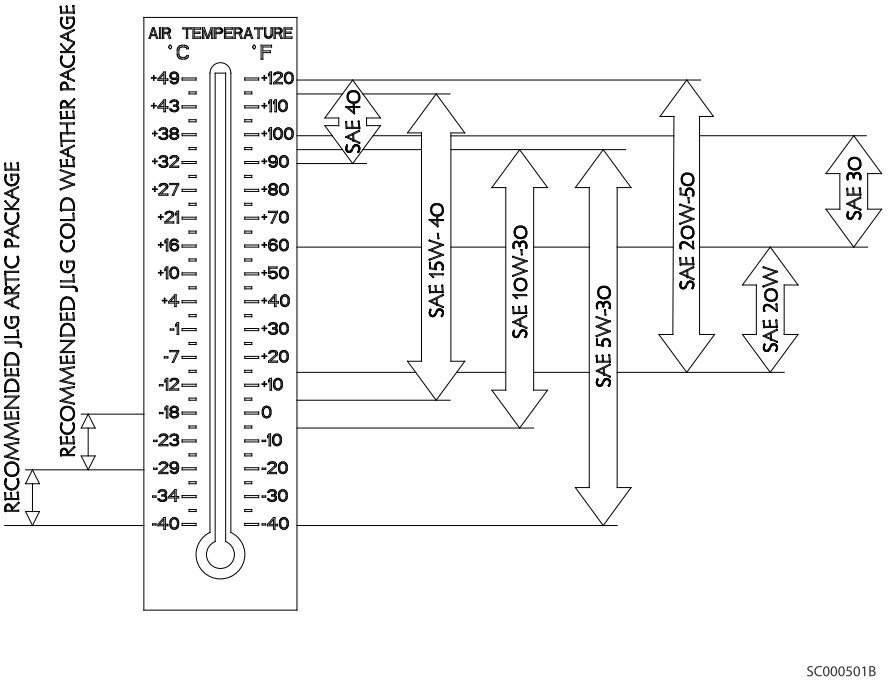



**Figure 16. Kubota — Diesel (D1305–E4B)**

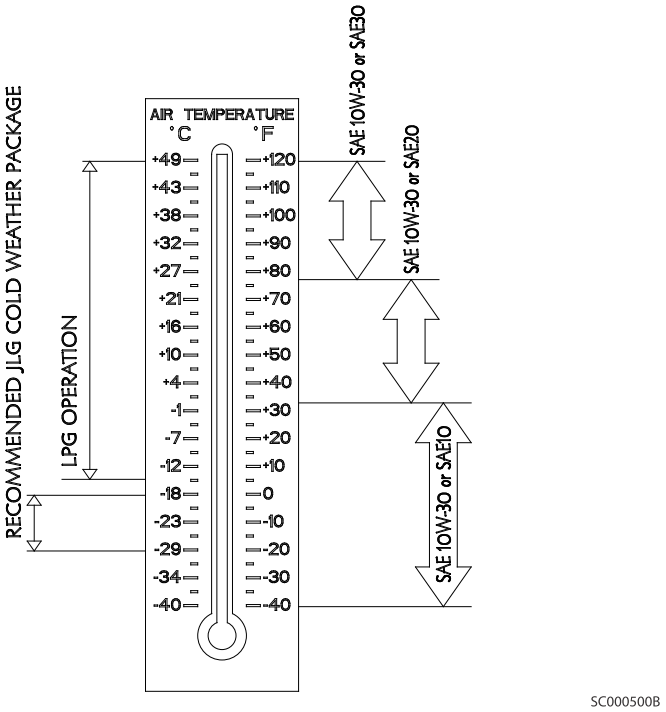



**Figure 17. Kubota — Dual Fuel (WG972–GL-E4)**

## 6.5 LUBRICATION

**Table 8. Lubrication Specifications**

| Key | Specifications |
|---|---|
| MPG | Multipurpose Grease: Having a minimum dripping point of 350° 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. |
| EO | Engine Oil (crankcase): Refer to Section — Operator Maintenance, sub-section — Oil Change with Filter (Engine); and, refer to Figures — Engine Oil Operating Temperature; or, OEM Engine Manual supplied with machine. |
| HO | Hydraulic Oil — Refer to Section — Operator Maintenance, sub-section — Hydraulic Oil Tank; and, refer to Figure — Hydraulic Oil Operating Temperature Chart. |

**Table 9. 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 |

Hydraulic oils must have anti-wear qualities of at least API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service. JLG Industries recommends the use of standard UTTO.

Machines may be equipped with 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.

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.

When temperatures remain consistently below 20° F (-7° C), JLG Industries recommends the use of a premium cold weather hydraulic fluid (viscosity grade 32).

**Table 10. 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 | X | | | | | | |
| Mobilfluid 424 — Optional | 60 | 134 | X | | | | | | |
| Shell Tellus S2 VX32 — Recommended | 32 | 142 | X | | | | | | |
| Mobil DTE 10 Excel 32 — Optional | 32 | 164 | X | | | | | X | |
| Shell Tellus S4 VX32 — Recommended | 32 | 296 | X | | | | | | |
| Univis HVI 26 — Optional | 26 | 376 | X | | | | | | |
| UCON Hydrolube HP-5046D — Recommended | 46 | 192 | | | | X | X | X | X |
| Shell Naturelle HF-E46 — Recommended | 46 | 193 | | | X | | X | X | |

* cSt, Typical

** Readily biodegradeable classification indicates one of the following:

- $CO_2$ Conversion > 60% per EPA 560/6-82-003
- $CO_2$ 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

# NOTICE

Machine operation using non-JLG approved hydraulic fluids or operation outside of the temperature boundaries outlined in the Hydraulic Oil Operating Temperature Chart may result in premature wear or damage to components of the hydraulic system.

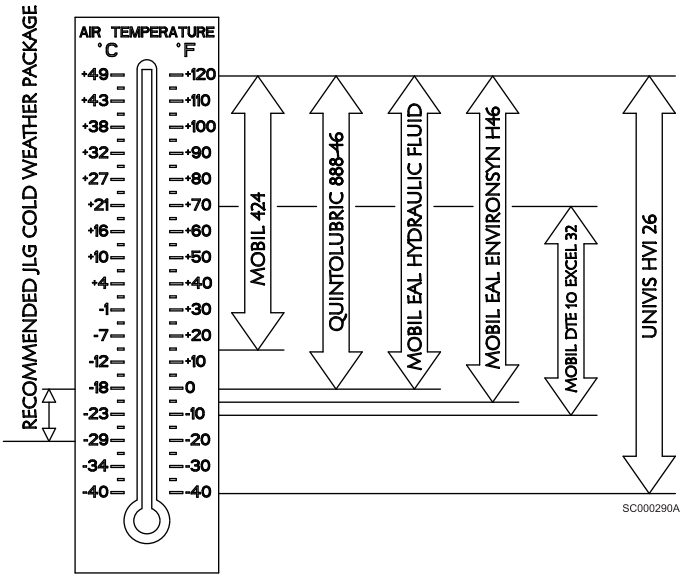



**Figure 18. Hydraulic Oil Operating Temperature Chart**

## 6.6 SCISSOR ARM SAFETY PROP

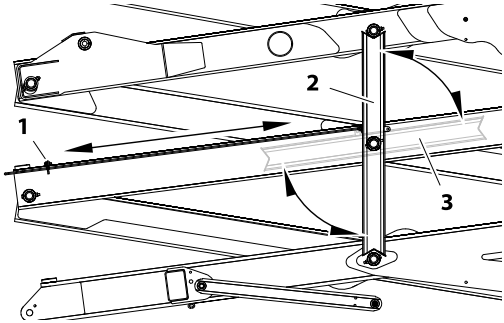
# ⚠ CAUTION

The safety prop must be used whenever maintenance performed on the machine requires the scissor arms to be raised.

1. To engage the safety prop, raise the unloaded platform high enough to allow the safety prop to rotate vertically into position.
2. Rotate the rod keeper plate and release the safety prop actuator rod at the front of the machine.
3. Lift the actuator rod (flat) up out of the slot in the keeper plate bracket and pull the actuator rod to align the safety props vertically with the scissor arm center pins above and below the safety prop mounting pins.
4. Set the actuator rod (flat at the set position) into the slot on the keeper plate bracket and rotate the keeper plate to lock the actuator rod in this position.

5. Lower the platform arms until the safety prop rests on the scissor arm center pin mounts above and below the safety prop.

Maintenance can now begin.

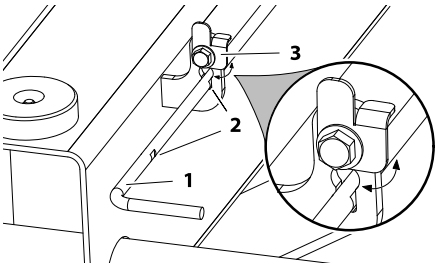



1. Actuator Rod/Rod Keeper Plate.
2. Safety Prop in set position.
3. Safety Prop in stowed position.

To store the safety prop, raise the platform, release the actuator rod from the keeper plate bracket, push the safety prop rod so that the safety props are restored back to its stowed position. Lock the actuator rod in place with the rod keeper plate till next use.

## ⚠ WARNING

To avoid personal injury, use safety prop for all maintenance requiring platform to be elevated.




1. Safety Prop Actuator Rod
2. Notch Flats on Rod
3. Rod Keeper Plate

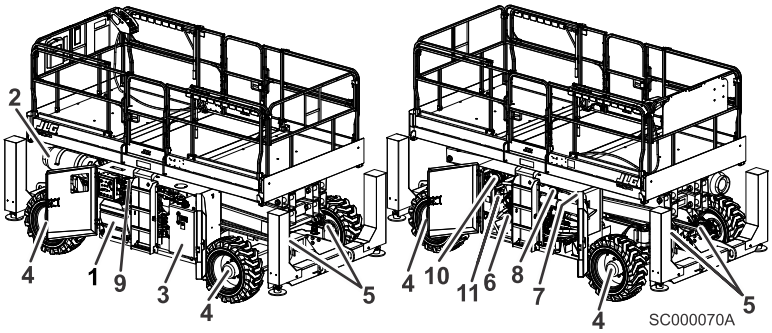
# 6.7 OPERATOR MAINTENANCE

## 6.7.1 General Maintenance Tips

**Note:** Be sure to lubricate like items on each side of machine.

**Note:** Recommended lubricating intervals are based on machine operations under normal conditions. For machines used in multi-shift operations and/or exposed to hostile environments or conditions, lubrication frequencies must be increased accordingly.
Operate hydraulic functions through one complete cycle before checking hydraulic oil level in tank. Oil should be visible in ADD sight window on hydraulic tank. If oil is not visible, add oil until oil is visible in both ADD and FULL sight windows on tank. Do not overfill tank.
Any time the pump coupling is removed, coat splines of coupling with Texaco Code 1912 grease prior to assembly.

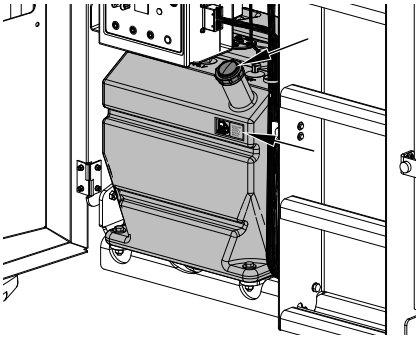
## 6.7.2 Operator Maintenance Components




1. Fuel Tank (Gasoline or Diesel)
2. Fuel Tank w/ Shut-Off Valve (LP Only)
3. Hydraulic Oil Tank
4. Drive Hubs
5. Scissor Arm - Sliding Wear Pads
6. Oil Change w/ Filter - Kubota
7. Fuel/Water Separator Filter - Kubota- Diesel
8. Hydraulic Charge Filter - Kubota - Diesel
9. Fuel Filter/Fuel Pump - Kubota- Gasoline
10. Air Filter
11. Engine Coolant

## 6.7.3 Fuel Tank

- Fuel - Diesel or Gasoline (Per Engine Type - Reference Decal on Machine)
- Capacity - 22 gal (83.2 L)



### 6.7.4 Drive Hub

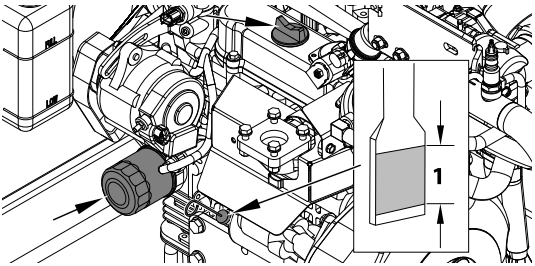
- Lube Points - Fill Plugs (4)
- Lube - EPGL
- Interval - Every 2 years or 1200 hours



### 6.7.5 Scissor Arms - Sliding Wear Pads

- Lube Points - 8 Sliding Wear Pads
- Lube - MPG
- Interval - Every month or 50 hours.

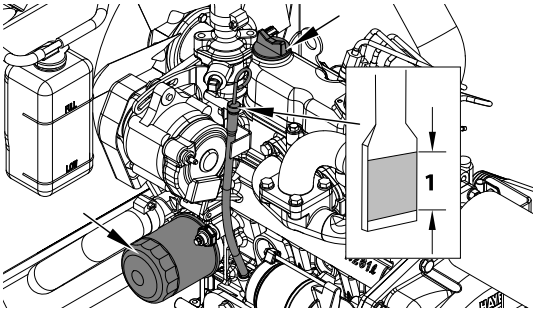
### 6.7.6 Oil Change with Filter




Kubota Dual Fuel (WG972-GL-E4)

**Note:** Exhaust system shown removed for illustrative purposes only.

- Lube Point(s) - Fill Cap/Spin-on Element
- Capacity - 0.9 gal (3.4 L)
- Lube - EO - Minimum API SL (For viscosity, refer to *Figure — Engine Oil Operating Temperature Specifications - Kubota (Dual Fuel Engine*.)
- Interval - Every year or 200 hours of operation
- Check oil level daily, maintain within marked level (1)/Change in accordance with engine manual.

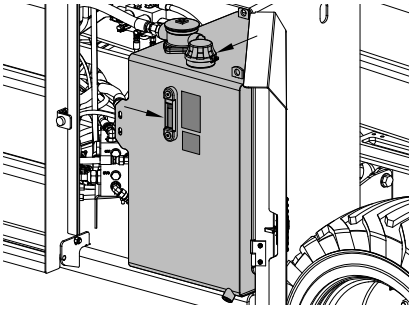



Kubota Diesel (D1305-E4B)

- Lube Point(s) - Fill Cap/Spin-on Element
- Capacity - 1.51 gal (5.7 L)
- Lube - EO - Minimum API CF (For viscosity, refer to *Figure — Engine Oil Operating Temperature Specifications - Kubota (Diesel Engine*).
- Interval - Every year or 200 hours of operation
- Check oil level daily, maintain within marked level (1)/Change in accordance with engine manual.

### 6.7.7 Hydraulic Oil Tank

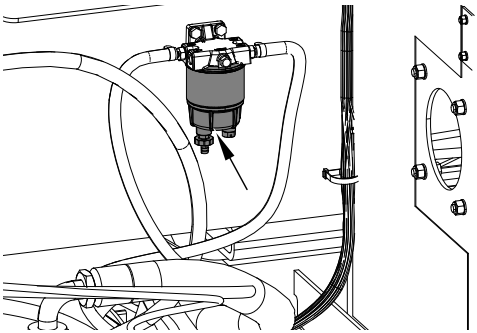
- Lube Point - Fill Cap/Fill Level
- Lube - HO - API service classification GL-3 (For operating temperatures, refer to *Figure — Hydraulic Oil Operating Temperature Specifications*.)
- Interval - Check oil every 10 hours of operation; change oil every 2 years or 1200 hours of operation.



### 6.7.8 Fuel/Water Separator Filter (Diesel) - Kubota

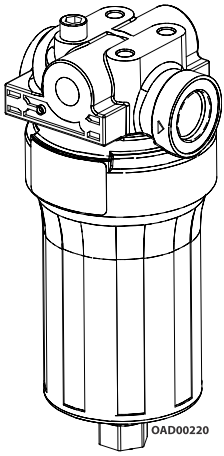
**Note:** Mounted inside engine cabinet on right-rear cabinet wall behind battery and exhaust pipe.

- Lube Point(s) - Replaceable Element
- Interval (Filter) - Change every 500 hours, every other oil change, or annually, whichever comes first.
- Interval (Water Bowl) - Empty Daily. Loosen drain cock on underside of fuel filter and allow all water to drain into a container until clear fuel is visible. Tighten drain.



### 6.7.9 Hydraulic Charge Filter

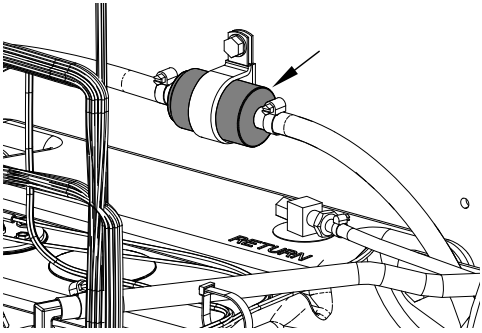
- Lube Point - Replaceable Element
- Interval - Change after first 50 hours and after every six months or 300 hours




### 6.7.10 Fuel Strainer (Diesel) - Kubota

**Note:** Mounted inside fuel/hydraulic cabinet on left-rear cabinet wall behind fuel tank.

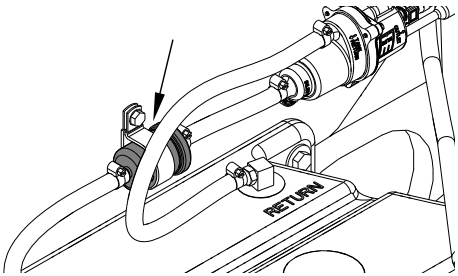
- Lube Point(s) - Replaceable
- Interval - Every Year or 600 hours of operation



### 6.7.11 Fuel Filter (Gas) - Kubota

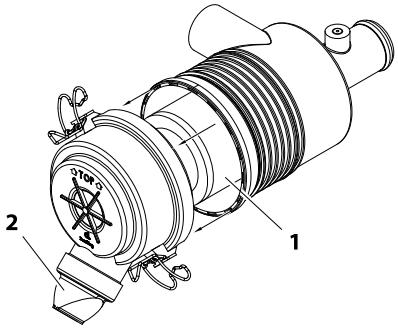
**Note:** Mounted inside fuel/hydraulic cabinet on left-rear cabinet wall behind fuel tank.

- Lube Point(s) - Replaceable
- Interval - Check every 100 hours; change every year.



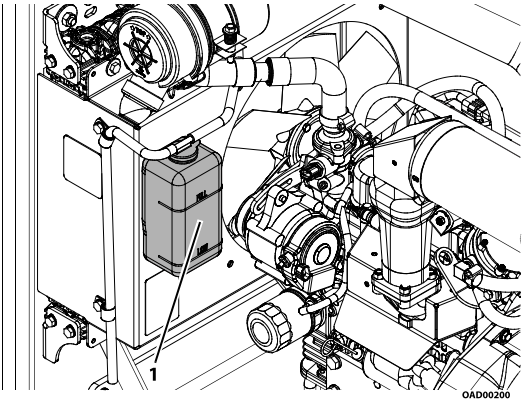

### 6.7.12 Air Filter

- Lube Point(s) - Replaceable Primary Filter Element (1) (Dry Type)
- Interval - Every 6 months or 300 hours of operation. Under severe operating conditions (such as a very dusty work area) check condition of filter more often.
- Once a week, squeeze the evacuator valve (2) on bottom of air cleaner assembly to allow collected debris to fall out of the air cleaner.




### 6.7.13 Engine Coolant

- Lube Point - Fill Cap/Fill Level
- Interval - Check coolant level daily. Ensure it is between the "FULL" and "LOW" lines (1). If coolant level is low, allow fluid to cool, then add as required.




## 6.8 PROPANE FUEL SYSTEM

### 6.8.1 Pressure Relief

**⚠ CAUTION**

The propane fuel system operates at pressures up to 312 psi (21.5 bar). To minimize the risk of fire and personal injury, relieve the propane fuel system pressure (where applicable) before servicing the propane fuel system components.

To relieve propane fuel system pressure:

1. Close the manual shut-off valve on the propane fuel tank.
2. Start and run the vehicle until the engine stalls.
3. Turn the ignition switch OFF.

**⚠ CAUTION**

Residual vapor pressure will be present in the fuel system. Ensure the work area is well ventilated before disconnecting any fuel line.

### 6.8.2 Leak Test

**⚠ CAUTION**

Never use an open flame of any type to check for propane fuel system leaks.

Always inspect the propane fuel system for leaks after performing service. Check for leaks at the fittings of the serviced or replaced component. Use a commercially available liquid leak detector or an electronic leak detector. When using both methods, use the electronic leak detector first to avoid contamination by the liquid leak detector.

## 6.9 TIRES AND WHEELS

### 6.9.1 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 in (7.5 cm) in total length
- any tears or rips (ragged edges) in the cord plies which exceed 1 in (2.5 cm) in any direction
- any punctures which exceed 1 in (2.5 cm) 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.

### 6.9.2 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.

### 6.9.3 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.

### 6.9.4 Wheel Installation

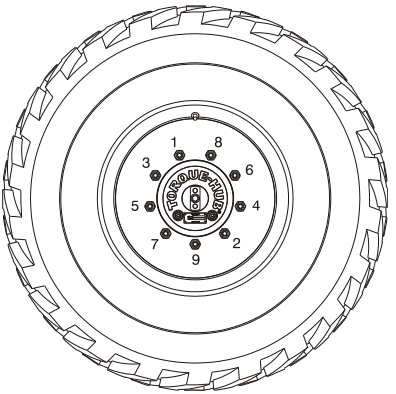
It is extremely important to apply and maintain proper wheel mounting torque.

**⚠ 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 11. Wheel Torque Chart**

| TORQUE SEQUENCE | | |
|---|---|---|
| 1st Stage | 2nd Stage | 3rd Stage |
| 85 ft. lb. (115 Nm) | 110 ft. lb. (149 Nm) | 170 ft. lb. (230 Nm) |

## 6.10 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.

### 6.10.1 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.

### 6.10.2 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.

### 6.10.3 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

## 6.11 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 86 dB (A).

The guaranteed Sound Power Level (LWA) per European Directive 2000/14/EC (Noise Emission in the Environment by Equipment for Use Outdoors) or Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001 No. 1701 based on test methods in accordance with Annex III, Part B, Method 1 and 0 of the directive, is 106 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.

## 6.12 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
RT3394, RT4394

EC-Number
2842

Certificate Number
KCEC5411

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.

## 6.13 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
RT3394, RT4394

AB-Number
0463

Certificate Number
AVUK5411

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 |
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## Inspection, Maintenance and Repair Log

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**Visit our website for JLG Worldwide Locations.**
**www.jlg.com**



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