



Operation and Safety Manual

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



4045R

ANSI (E I AS/NZS GB

3121760 March 12, 2019 - Rev F

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A WARNING

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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.

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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.

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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, Production Registration, and other machine-related documentation.

SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS

THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO THE POTEN-TIAL PERSONAL INJURY HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO AVOID POSSIBLE INJURY OR DEATH.



INDICATES AN IMMINENTLY HAZARDOUS SITUATION. IF NOT AVOIDED, <u>WILL</u> RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE A RED BACK-GROUND.

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



A WARNING NTIALITY HAZARDOUS SITUATION

INDICATES A POTENTIALITY HAZARDOUS SITUATION. IF NOT AVOIDED, <u>COULD</u> RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE AN ORANGE BACKGROUND.

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

WARNING

THIS PRODUCT MUST COMPLY WITH ALL SAFETY RELATED BULLETINS. CON-TACT JLG INDUSTRIES, INC. OR THE LOCAL AUTHORIZED JLG REPRESENTA-TIVE 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 OF PERSONNEL 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

Contact:

Product Safety and Reliability Department JLG Industries, Inc. 13224 Fountainhead Plaza Hagerstown, MD 21742 USA

or Your Local JLG Office (See addresses on manual rear cover)

In USA:

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

Outside USA:

Phone: 240-420-2661 E-mail: ProductSafety@JLG.com

- Standards and Regulations Compliance Information
- Questions Regarding Special
 Product Applications
- Questions Regarding Product Modifications

REVISION LOG

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- Revised

F - March 12, 2019

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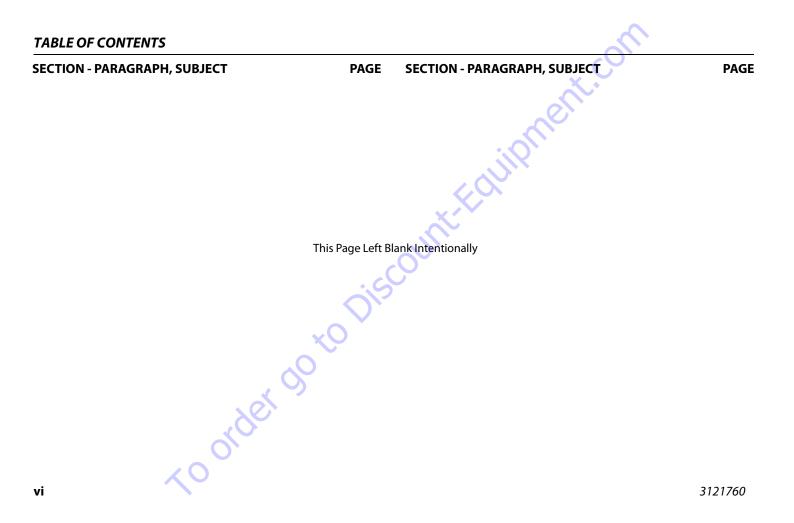
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SECTION 1. SAFETY PRECAUTIONS

1.1 GENERAL

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

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

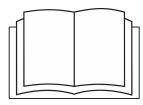
WARNING

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

1.2 PRE-OPERATION

Operator Training and Knowledge

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



- An operator must not accept operating responsibilities until adequate training has been given by competent and authorized persons.
- Allow only those authorized and qualified personnel to operate the machine who have demonstrated that they understand the safe and proper operation and maintenance of the unit.
- Read, understand, and obey all DANGERS, WARNINGS, CAU-TIONS, 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 be familiar with the emergency controls and emergency operation of the machine as specified in this manual.
- Read, understand, and obey all applicable employer, local, and governmental regulations as they pertain to your utilization and application of the machine.

Workplace Inspection

- Precautions to avoid all hazards in the work area must be taken by the user before and during operation of the machine.
- Do not operate or raise the platform from a position on trucks, trailers, railway cars, floating vessels, scaffolds or other equipment unless the application is approved in writing by JLG.
- Before operation, check work area for overhead hazards such as electric lines, bridge cranes, and other potential overhead obstructions.
- Check operating surfaces for holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards.

- Check the work area for hazardous locations. Do not operate the machine in hazardous environments unless approved for that purpose by JLG.
- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel.
- 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.

Machine Inspection

- Do not operate this machine until the inspections and functional checks have been performed as specified in Section 2 of this manual.
- 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 and Maintenance Manual.
- Ensure all safety devices are operating properly. Modification of these devices is a safety violation.

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

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

1.3 OPERATION

General

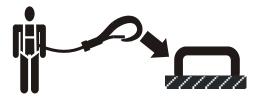
- Machine operation requires your full attention. Bring the machine to a full stop before using any device, i.e. cell phones, two-way radios, etc. that will distract your attention from safely operating the machine.
- Do not use the machine for any purpose other than positioning personnel, their tools, and equipment.
- Before operation, the user must be familiar with the machine capabilities and operating characteristics of all functions.
- Never operate a malfunctioning machine. If a malfunction occurs, shut down the machine. Remove the unit from service and notify the proper authorities.
- Do not remove, modify, or disable any safety devices.
- 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.

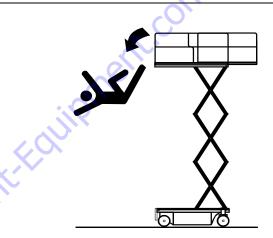
- Do not carry materials directly on platform railing unless approved by JLG.
- When two or more persons are in the platform, the operator shall be responsible for all machine operations.
- Always ensure that power tools are properly stowed and never left hanging by their cord from the platform work 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.

SECTION 1 - SAFETY PRECAUTIONS

Trip and Fall Hazards

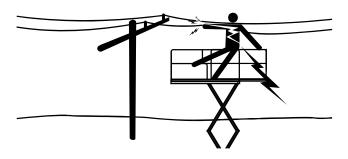
• Prior to operation, ensure all gates and rails are fastened and secured in their proper position.



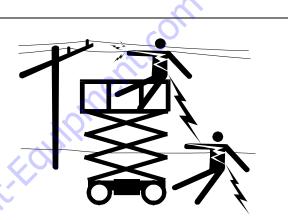


- JLG Industries, Inc. recommends that all persons in the platform wear a full body harness with a lanyard attached to an authorized lanyard anchorage point while operating this machine. For further information regarding fall protection requirements on JLG products, contact JLG Industries, Inc.
- Identify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

Electrocution Hazards



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



The minimum approach distance 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 minimum approach distance shall be reduced to a distance within the designed working dimensions of the insulating barrier. This determination shall be made by a qualified person in accordance with the employer, local, or governmental requirements for work practices near energized equipment.



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

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

VOLTAGE RANGE (Phase to Phase)	MINIMUM APPROACH DISTANCE in Feet (Meters)		
0 to 50 KV	10 (3)		
Over 50KV to 200 KV	15 (5)		
Over 200 KV to 350 KV	20 (6)		
Over 350 KV to 500 KV	25 (8)		
Over 500 KV to 750 KV	35(11)		
Over 750 KV to 1000 KV	45 (14)		

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 sideslope and grade while driving.
- Do not elevate platform or drive with platform elevated while on or near a sloping, uneven, or soft surface. Ensure machine is positioned on a smooth, firm surface within the limits of the maximum operating slope before elevating platform or driving with the platform in the elevated position.
- Before driving on floors, bridges, trucks, and other surfaces, check allowable capacity of the surfaces.
- Never exceed the maximum platform capacity as specified on the platform. Keep all loads within the confines of the platform, unless authorized by JLG.
- Keep the chassis of the machine a minimum of 2 ft. (0.6m) from holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards at the ground level.
- Do not operate the machine when wind conditions exceed specifications shown in Section 5, Table 5-2 or as shown on the capacity placard on the platform billboard. Factors affecting wind speed are; platform elevation, surrounding structures, local weather events, and approaching storms.
- Wind speed can be significantly greater at height than at ground level.

- Wind speed can change rapidly. Always consider approaching weather events, the time required to lower the platform, and methods to monitor current and potential wind conditions.
- Do not increase surface area of the platform or the load. Increased areas exposed to wind will decrease stability.
- Do not increase the platform size with unauthorized modifications or attachments.

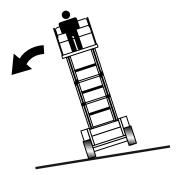


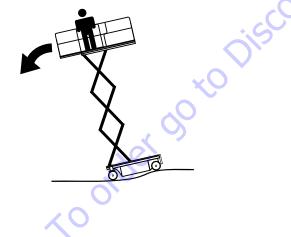
WARNING

BEAUFORT	WIND SPEED		DESCRIPTION	LAND CONDITIONS	
NUMBER	mph	m/s			
0	0	0-0.2	Calm Calm. Smoke rises vertically.		
1	1-3	0.3-1.5	Lightair	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.	
б	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.	

Table 1-2. Beaufort Scale (For Reference Only)

3121760



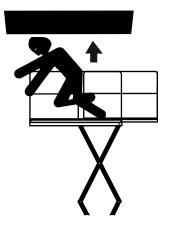


- Never attempt to use the machine as a crane. Do not tie-off machine to any adjacent structure. Never attach wire, cable, or any similar items to platform.
- Do not cover the platform sides or carry large surface-area items in the platform when operating outdoors. The addition of such items increases the exposed wind area of the machine.
- Do not increase the platform size with unauthorized deck extensions or attachments.
- 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.

Crushing and Collision Hazards

- Approved head gear must be worn by all operating and ground personnel.
- Keep hands and limbs out of the scissor arm assembly during operation and when elevated without safety prop engaged.
- Watch for obstructions around machine and overhead when driving. Check clearances above, on sides, and bottom of platform when lifting or lowering platform.

• During operation, keep all body parts inside platform railing.



- Always post a lookout when driving in areas where vision is obstructed.
- Keep non-operating personnel at least 6 ft. (1.8m) 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, switch to low 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 platform. Position barricades on floor as necessary.

1.4 TOWING, LIFTING, AND HAULING

- Never allow personnel in platform while towing, lifting, or hauling.
- This machine should not be towed, except in the event of emergency, malfunction, power failure, or loading/unload-ing. Refer to 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.

order got

• Refer to Section 3 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.

Maintenance Hazards

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

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



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



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

Battery Hazards

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



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.

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.

Operator Training

- 1. Reading and understanding the Operation and Safety Manual.
- 2. Thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground, and emergency descent controls.
- **3.** Control labels, instructions, and warnings on the machine.
- **4.** Applicable regulations, standards, and safety rules.
- 5. Use of approved fall protection equipment.
- **6.** Enough knowledge of the mechanical operation of the machine to recognize a malfunction or potential malfunction.
- 7. The safest means to operate the machine where overhead obstructions, other moving equipment, and obstacles, depressions, holes, and drop-offs exist.

- 8. Means to avoid the hazards of unprotected electrical conductors.
- **9.** Selection of the appropriate MEWPs and available options for the work to be performed considering specific job requirements, with involvement from the MEWP owner, user, and/or supervisor.
- 10. The responsibility of the operator to ensure all platform occupants have a basic level of knowledge to work safely on the MEWP, and to inform them of applicable regulations, standards, and safety rules.
- **11.** The requirement for familiarization in addition to training.

Training Supervision

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

Operator Responsibility

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

Machine Familiarization

NOTE: Responsibilities for familiarization may vary by region.

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

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

- 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

Table 2-1 explains the periodic machine inspections and maintenance recommended 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.

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

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

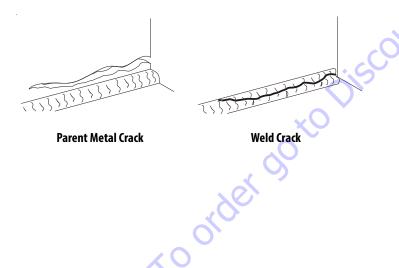
NOTICE

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

2.3 PRE-START INSPECTION

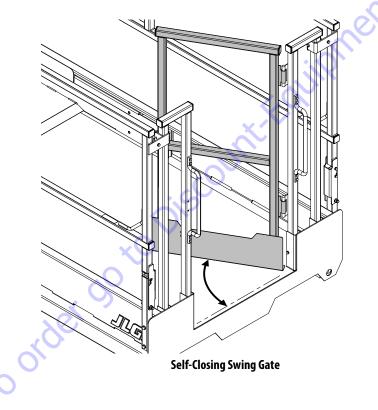
The Pre-Start Inspection should include each of the following:

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



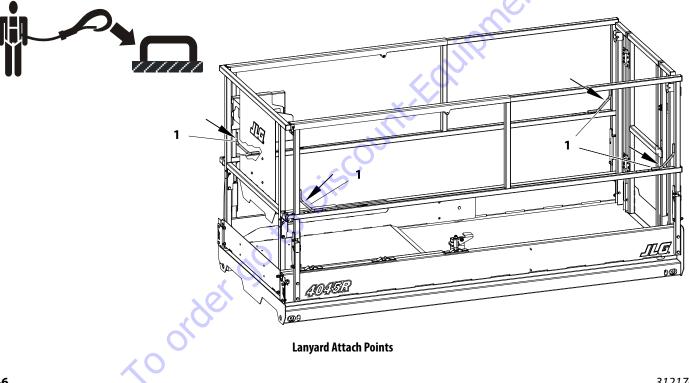
- 3. Decals and Placards Check all for cleanliness and legibility. Ensure none of the decals and placards are missing. Ensure all illegible decals and placards are cleaned or replaced. (See Section 5.7, DECAL INSTAL-LATION)
- 4. Operation and Safety Manuals Ensure that a copy of the Operation and Safety 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 Refer to Figure 2-1. on page 2-8.
- **6. Battery** Charge as required.
- 7. Hydraulic Oil Level Check the hydraulic oil level in the pump reservoir, add as required. (See Section 5.5)
- 8. Accessories/Attachments Refer to the Accessories section in this manual or accessory installed upon the machine for specific inspection, operation, and maintenance instructions.
- **9.** Function Check Once the "Walk-Around" Inspection is complete, perform a functional check of all systems in an area free of overhead and ground level obstructions. Refer to Section 3 for more specific instructions on the operation of each function.

10. Platform Gate - Keep gate and surrounding area clean and unobstructed. Check that gate closes properly and is not bent or damaged. During operation keep gate closed.



SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION AND INSPECTION

11. Lanyard Anchorage Points - JLG Industries, Inc. recommends personnel in the platform wear a full body harness with a lanyard attached to an authorized lanyard anchorage point (1).



2.4 DAILY WALK-AROUND INSPECTION

Begin the "Walk-Around Inspection" at item 1, see Figure 2-1. Continue checking each item in sequence for the conditions listed in the following checklist.

A WARNING

TO AVOID POSSIBLE INJURY, BE SURE MACHINE POWER IS "OFF". DO NOT OPERATE UNTIL ALL MALFUNCTIONS HAVE BEEN CORRECTED.

NOTICE

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

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

- 1. Frame/Chassis/Ladder See Inspection Note. Ensure that pothole protection (PHP) components on frame are in place, undamaged, not bent or worn. Side compartment doors open and close properly.
- 2. Ground Controls Placard secure and legible, control switches return to neutral position, emergency stop switch functions properly. Control markings legible.

- 3. Hydraulic Pump/Motor, Control Valve Installation No unsupported wires or hoses; no damaged or broken wires *See Inspection Note*.
- 4. Front Wheels, Tires and Drive Motors Wheel nut properly secured. Refer to "Tire Wear and Damage" on page 5-17. Inspect wheels for damage and corrosion, Steer linkage, and Steer Cylinder - *See Inspection Note*.
- 5. Battery Compartment See Inspection Note.
- 6. Rear Wheels, Tires and Hydraulic Brake Wheel nut properly secured. Refer to "Tire Wear and Damage" on page 5-17. Inspect wheels for damage and corrosion, check hydraulic brake hoses for damage or leakage *See Inspection Note*.
- 7. Manual Descent Control See Inspection Note.
- **8.** Beacon(s) (*if equipped*) See Inspection Note.
- **9.** Scissor Arms, Pivot Pins and Sliding Wear Pads, Lift Cylinder - *See Inspection Note*.
- **10.** Platform/Handrail/Gate Installation Deck extension slides in and out and locks in place properly. Gate closes properly. All fold-down rail pins (*if equipped*) in place and secure *See Inspection Note*.
- **11.** Platform Control Console Ensure that the control console is firmly secured in the proper location. Placards secure and legible, control lever and switches return to neutral, and emergency stop switch function properly, required manual(s) in storage box.

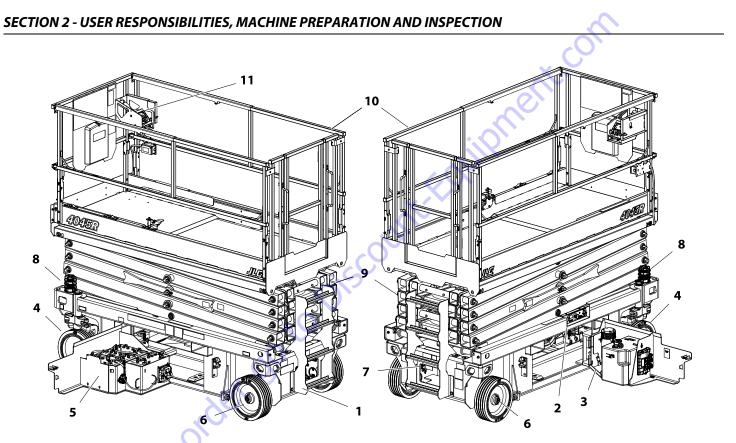


Figure 2-1. Daily Walk-Around Inspection (Side Compartment Doors Open)

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION AND INSPECTION

2.5 FUNCTION CHECK

Perform the Function Check as follows:

- 1. From the **Ground Control Panel** with no load in the platform: (*See Figure 3-2. on page 3-5*)
 - **a.** Ensure that the key selector switch and the platform lift switch operates properly.
 - **b.** Ensure that all machine functions are disabled when the Emergency Stop Button is depressed.
 - c. With platform raised a few feet (1m), ensure that the manual descent control (*T*-handle located at the left rear of the machine, next to the battery charger), lowers the platform.
 - **d.** Check that pot-hole-protection system bars are fully lowered when the platform is raised.

order of

Platform Elevated - Pot-Hole Bars Fully Lowered



Platform Fully Lowered - Pot-Hole Bars Raised

Pot-Hole-Protection System - Operation

- 2. From the Platform Control Console:
 - **a.** Ensure that the control console is firmly secured in the proper location.
 - **b.** Ensure that all guards protecting switches are in place.
 - **c.** Operate all switch functions, drive/lift mode select switch, and horn button.
 - **d.** Operate all platform joystick functions to ensure proper operation of drive, lift, steer, and enable trigger switch operation.

- e. Ensure that all machine functions are disabled when the platform Emergency Stop Button is depressed.
- f. With the platform elevated on a smooth, firm, level surface with no overhead obstructions, drive the machine to check if the high drive cutout speed-limit is engaged at the height indicated in Table 2-2. Ensure drive speed is reduced from a top speed to a slower speed.

Table 2-2. High Drive Cutout Height

MODEL	HIGH DRIVE SPEED CUTBACK HEIGHT	DRIVE SPEED REDUCTION
4045R	75 in. (190.5 cm)	2.0 mph (3.2 kph) to 0.5 mph (0.8 kph)

- **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 drive motor brakes hold.
 - **b.** Check the tilt indicator light to ensure proper operation. The light should be illuminated if tilted beyond allowed settings in Table 2-3.

NOTE: When the tilt indicator warning is activated the following functions are affected; drive and lift up functions are disabled, platform must be fully lowered (stowed) to drive.

MODEL	TILT SETTING (front to back)	TILT SETTING (side to side)	Maximum Deck Elevation		
	22	1.50°-outdoor	25 ft 28.7 ft.	7.6-8.7 m	
~	3.50°	1.50°-indoor	31 ft max.	9.4-max.	
4045R		2.00°-outdoor	23-25 ft.	7-7.6m	
4043 K		2.00°-indoor	27-31ft.	8.2-9.4m	
		2.50°-outdoor	0-23 ft.	0-7m	
		2.50°-indoor	0-27 ft.	0-8.2 m	

Table 2-3. Tilt Activation Setting

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3.1 GENERAL

NOTICE

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

This section provides the necessary information needed to understand controls and their functions.

DO NOT RAISE PLATFORM EXCEPT 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) used to position personnel, along with their necessary tools and materials at work locations.

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.

OThe machine can be driven on a smooth, firm surface, within the limits of the maximum operating slope, from an elevated platform position - Reference "Steering And Traveling" on page 3-13. of this manual for specific requirements.

The machine also has a ground control station which can override the platform control station. Ground controls operate lift up and down. 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

Placards

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

Capacities

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

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

Stability

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

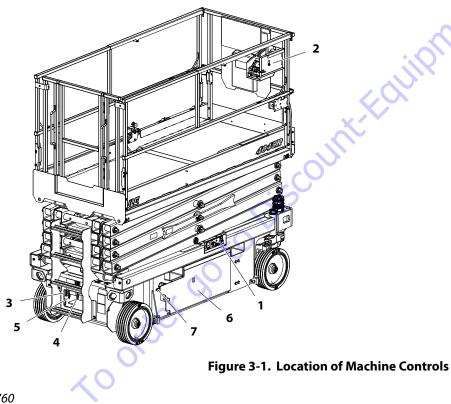
3.4 PLATFORM LOADING

The platform maximum rated load capacity is shown on a placard located on the platform billboard and is based upon the machine positioned on a smooth, firm surface, within the limits of the maximum operating slope, Refer to Section 5, Table 5-2 on page 5-4, for the maximum platform capacity.

The platform is entered through an entry gate at the rear of the platform. Keep entry gate closed during machine operation.

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 CONTROL LOCATIONS



- 1. Ground Control Station
- 2. Platform Control Station
- **3.** Platform Manual Descent Control (T-Handle)
- **4.** AC Plug At Rear of Machine For Platform AC Receptacle Outlet Box
- 5. AC Plug Battery Charger Input
- 6. Side Compartment Doors (Both Sides)
- 7. Side Compartment Door Latch Location (Both Sides)

3.6 BATTERY CHARGING

NOTE: Be sure that machine is parked in a well ventilated area before charging begins.

ONLY PLUG THE CHARGER INTO A PROPERLY INSTALLED AND GROUNDED OUTLET. DO NOT USE GROUND ADAPTORS OR MODIFY PLUG. DO NOT TOUCH NON-INSULATED PORTION OF OUTPUT CONNECTOR OR NON-INSULATED BATTERY TERMINAL.

DO NOT OPERATE CHARGER IF THE AC SUPPLY CORD IS DAMAGED OR IF THE CHARGER HAS RECEIVED A SHARP BLOW, BEEN DROPPED, OR OTHERWISE DAMAGED IN ANY WAY.

ALWAYS DISCONNECT THE CHARGER AC SUPPLY BEFORE MAKING OR BREAK-ING THE (POSITIVE/NEGATIVE) CONNECTIONS TO THE BATTERY. DO NOT OPEN OR DISASSEMBLE CHARGER.

1. The battery charger AC input plug is located inside the frame at the left rear of the machine next to the battery charger.

See charger specific information in Section 5.2.

 Connect the charger AC input plug to a grounded outlet using a 3 wire heavy duty extension cord. (See Table 5-6, "Battery Charger Specifications," on page 5-7, for battery charger AC input specifications). **3.** After connecting the charger to an AC outlet at the start of the charging cycle, check the LED indicators on the charger for normal operation or if a fault has occurred.

See LED indicator status of each charger in Section 5.2.

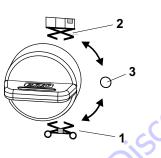
- **4.** Current battery charge state can also be seen on the platform control station panel LEDs, or the MDI indicator (if equipped) on the ground control station, when machine is powered up.
- 5. The batteries are fully charged when all three GREEN LED indicators on the platform control station or MDI battery charger status panel are illuminated. (See "MDI Indicator (If Equipped)" on page 3-7 for MDI indicator information.
- **NOTE:** If the charger is left plugged in, the charger will automatically restart a complete charge cycle if the batteries voltage drops below a minimum voltage or 30 days has elapsed.

GROUND CONTROL STATION 3.7 3 5 INVERT 000000.0 <u>o</u>y Figure 3-2. Ground Control Station 1. Ground/Platform/OFF Key Selector Switch 5. Hourmeter 2. Platform Lift/Lower Switch 6. Overload Indicator 3. Inverter ON/OFF Switch (If Equipped) 7. MDI - Indicator (If Equipped) 4. Ground Emergency Stop Button

DO NOT OPERATE FROM GROUND CONTROL STATION WITH PERSONNEL IN THE PLATFORM EXCEPT IN AN EMERGENCY.

Ground/Platform/OFF Key Selector Switch

The key selector switch on the Ground Control Station functions to direct electrical power to the desired control station. With the switch turned to the **ground position (1)**, power is supplied to the controls at the ground control station. When the switch is turned to the **platform position (2)**, power is supplied to the controls at the platform control station.



The switch should be set to the **OFF position (3)** when not using machine or parking the machine overnight.

Platform Lift/Lower Switch

A three position, momentary contact lift control switch provides raising and lowering of the platform from the Ground Control Station.

NOTE: There will be a brief delay between switch activation and movement of the platform.

When operating platform from the ground controls -

Toggle the lift/lower switch to up position and hold to raise platform, or down position and hold to lower an elevated platform. Release to center position to stop all movement.

Inverter ON/OFF Switch (If Equipped)

When switched on the inverter converts the DC voltage stored in the on-board batteries to AC voltage for use at the AC receptacle outlet mounted on the platform rail.

Ground Emergency Stop Switch

Power is turned on by pulling the switch out, and is turned off by depressing switch. A twoposition, red, mushroom-shaped emergency stop switch, when positioned to ON with the key selector switch positioned to ground, furnishes operating power to the ground control station



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HOURS

key switch. In addition, the switch can be used to turn off power to the function controls in the event of an emergency.

Hourmeter

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

Overload Indicator

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

NOTE: If the Overload Indicator is illuminated; All platform functions will be prevented. Fully lower the platform from the ground controls or using the machine manual descent control. Reduce the weight in the platform to not exceed the rated workload indicated on the capacity decal.

MDI Indicator (If Equipped)

The MDI indicator or Multifunction Digital Indicator displays a Battery Discharge Indicator (BDI), an LCD display which shows the current hour-meter reading or Diagnostic Trouble Code(s) (DTC) when a functional problem occurs with the machine, and a system distress LED.

When a problem occurs (DTC Code displayed):

- A wrench Icon (item 1) LED will illuminate. (See Figure 3-3.)
- A three to five digit DTC code will display on the **Diagnostic Trouble Code LCD display** (*item 2*), below the wrench icon.

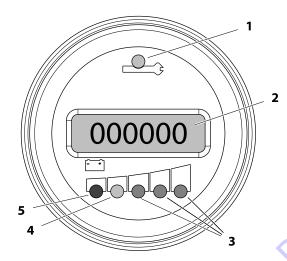


Figure 3-3. MDI Indicator

- 1. System Fault LED Indicator (RED LED)
- **2.** Hour-meter/DTC Code Display
- 3. 100% Battery Charge Indicator (GREEN AREA)
- 4. Battery Charge LOW Indicator (YELLOW AREA)
- 5. Battery Re-Charge Indicator
 - (RED AREA)

NOTE: When more than one DTC exists, each DTC will be displayed on the LCD for 3 seconds before changing to the next DTC. Once the last active DTC is displayed, the display will recycle indefinitely until the DTC's are corrected. For DTC's and descriptions, refer to Section 5.8.

Also located on the MDI are **Battery Discharge Indicators** (**BDI**) (*items 3, 4 and 5*). The (3) GREEN LEDs indicate the level of charge (voltage) remaining in the batteries.

NOTE: When the battery voltage is low and will need a charge soon, the **YELLOW LED (item 4)** begin to flash.

Under normal operating conditions the BDI's and hour-meter will be displayed. When a DTC exists (other than 00x DTC's) the BDI LEDs and hour-meter will not be displayed. Also when platform is elevated and the machine is being driven the creep mode (turtle) is displayed.

3.8 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 left rear of the machine, just below the platform ladder. Look for the instruction decal located beside the release handle.

The lowering procedure is as follows:

1. Locate the manual descent control T-handle. (See Figure 3-4.)

WARNING

KEEP HANDS AND ARMS OUT OF THE PATH OF THE SCISSOR ARMS AND PLAT-FORM 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 it's closed position.

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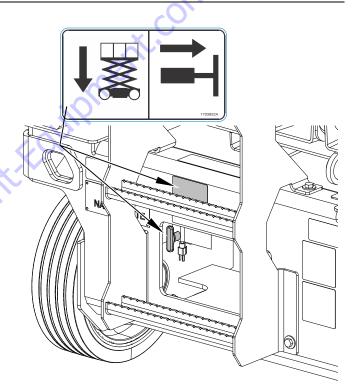
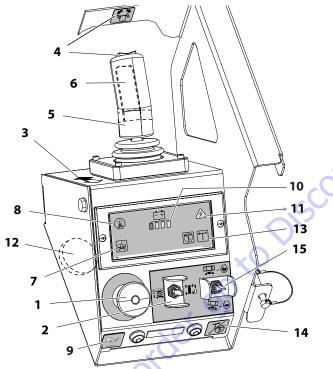


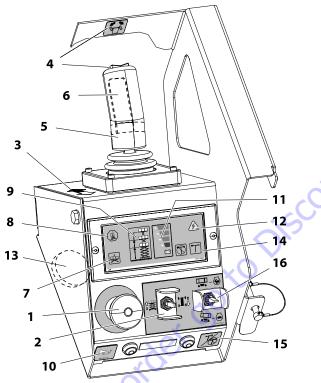
Figure 3-4. Location of Manual Descent Control (Left Rear of Machine)

3.9 PLATFORM CONTROL STATION



- 1. Emergency Stop Switch
- 2. Lift/Drive Select Switch
- 3. Black/White Directional Arrow
- Steer Switch and Decal
- 5. Controller
- 6. Trigger Switch (on front of controller)
- 7. Overload Indicator (LSS)
- 8. Tilt Indicator
- 9. Horn Button
- 10. Battery Discharge Indicator
- 11. System Fault Indicator
- 12. Alarm (located on bottom of box)
- 13. Indoor/Outdoor Capacity Indicators
- 14. Indoor/Outdoor Capacity Select Switch
- 15. Drive Speed Select Switch

Figure 3-5. Platform Control Station (Module P/N 1001224873)



- 1. Emergency Stop Switch
- 2. Lift/Drive Select Switch
- 3. Black/White Directional Arrow
- 4. Steer Switch and Decal
- 5. Controller
- 6. Trigger Switch (on front of controller)
- 7. Overload Indicator (LSS)
- 8. Tilt Indicator
- 9. Variable Tilt Platform Restricted Height Indicator
- 10. Horn Button
- **11.** Battery Discharge Indicator
- 12. System Fault Indicator
- 13. Alarm (located on bottom of box)
- 14. Indoor/Outdoor Capacity Indicators
- 15. Indoor/Outdoor Capacity Select Switch
- 16. Drive Speed Select Switch

Figure 3-5. Platform Control Station (Module P/N 1001228112)

Platform Emergency Stop Switch

NOTE: Both the ground and platform emergency stop buttons must be set to ON in order to operate the machine.

When power is directed to the platform from the ground control station, the platform emergency stop switch is turned on by pulling the switch out (on), and is turned off by pushing the switch in (off). The two-position, red, mushroom-shaped emergency stop switch functions to provide power to the platform control station and also to turn off power to machine functions in the event of an emergency.

Lift/Drive Select Switch

NOTE: When selecting between the Lift and Drive functions the joystick control must be returned to the neutral position for approximately 1/2 second before the function change is operable.

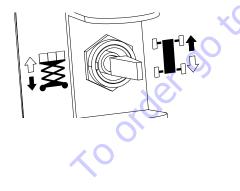
This toggle switch is used to select operation of either the drive or lift function. After selecting a function, the joystick controller must be moved in the proper direction in order to activate that function. Only change the function selected, with the joystick in the neutral position. Otherwise, the function selected will not change until the joystick is returned to the neutral position.

Forward/Reverse/Lift/Lower Direction Decal

This decal indicates the proper direction to mount the platform control box, the black arrow must point to the front of the machine. The black/white arrow also indicates the direction to move the joystick control per the



lift/drive selector switch decal for the lift and the drive select functions.



Drive/Lift/Steer Joystick Control

Trigger (Enable) Switch - This switch is located on the front of the joystick controller. The trigger switch acts as an enable and must be depressed before operating the drive, steer and lift functions. When released, the function being operated will stop.

NOTE: Once the trigger switch is pressed, the operator has (5) seconds to begin operating a function, after 5 seconds you must release the trigger switch and press it again to operate a joystick function.

The speed on all selected functions is proportionally controlled by the distance from the neutral (center) position of the joystick controller.

NOTE: If the machine is also equipped with a foot-switch, the foot-switch 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.

Steer Switch - The steer switch is a thumb operated switch located at the top of the control handle. 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.

Joystick Controller - The control handle controls two functions: drive and lift.

Steering And Traveling

DO NOT DRIVE WITH PLATFORM RAISED EXCEPT ON A SMOOTH, FIRM SUR-FACE, 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 TABLE 5-1 ON PAGE 5-2.

BEFORE DRIVING, LOCATE THE DECALS WITH THE BLACK/WHITE ORIENTA-TION ARROWS ON THE CHASSIS AND THE PLATFORM CONTROLS. 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.

IF THE TILT INDICATOR WARNING LIGHT/ALARM IS ACTIVATED WHILE DRIV-ING WITH PLATFORM RAISED, LOWER PLATFORM COMPLETELY AND DRIVE TO A SMOOTH, FIRM SURFACE, WITHIN THE LIMITS OF THE MAXIMUM OPER-ATING SLOPE.

- 1. Place key selector switch at the ground control station to platform operation.
- 2. Position emergency stop switches, one at the platform and one at the ground control station to the ON position.

Steering

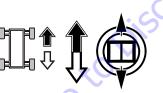
On the platform control station, position the lift/drive select switch to the drive position.

To steer the machine, engage trigger switch and the thumb operated steer rocker-switch on the joystick handle. Press to the right for steering right, or to the left for steering 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 center position, the switch must be activated in the opposite direction until the wheels are centered.

Traveling Forward and Reverse

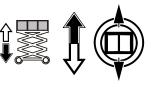
Position the platform lift/drive select switch to drive/steer position. Squeeze the trigger switch on front of the joystick, and move the joystick forward to drive forward or backward to



drive in reverse. The drive system is proportional, for additional drive speed push the joystick further from the neutral position in the direction of travel. Releasing the trigger switch or returning the joystick to center will stop machine movement.

Raising And Lowering Platform

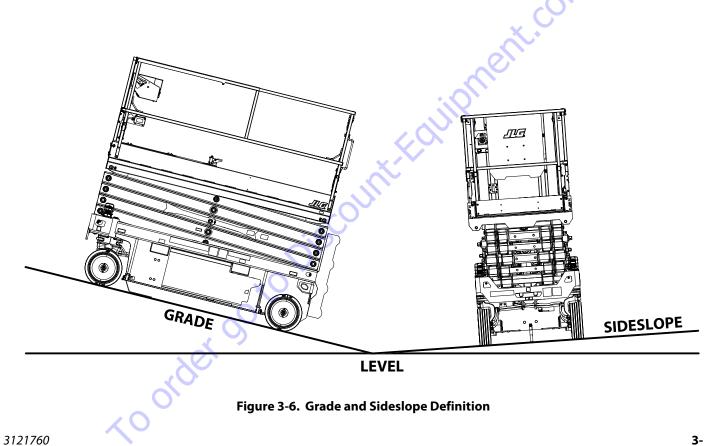
- 1. If the machine was shut down, place the key selector switch to the platform position.
- **2.** Position emergency stop switches, one at the platform and one at the ground control station to the ON position.
- **3.** Position the lift/drive select switch to lift.
 - Squeeze and hold the trigger switch, and move the joystick back (platform up - white



arrow direction) or move the joystick forward (platform down - black arrow direction) and hold until desired elevation is reached. Releasing the trigger switch or moving the joystick back to it's center position will stop the function being operated.

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.

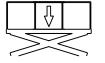


Arm Guards (If Equipped)

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.

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 illuminated, all platform functions will be prevented. Fully lower the platform from the ground controls or using the machine manual descent control. Reduce the weight in the platform to not exceed the rated workload indicated on the capacity decal.

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.

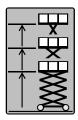




IF THE TILT INDICATOR WARNING LIGHT/ALARM IS ACTIVATED WHEN PLAT-FORM IS RAISED LOWER PLATFORM AND DRIVE TO A SMOOTH, FIRM SUR-FACE, WITHIN THE LIMITS OF THE MAXIMUM OPERATING SLOPE.

Variable Tilt - Platform Restricted Height Indicator

This indicator shows the maximum allowable platform elevation when the machine is within the limits of the variable tilt envelope. When activated, allowable platform height will be shown in one of three height ranges, depending on the amount of tilt detected by the machine's tilt sensor. See Table 2-3 on page 2-10 for tilt angle - platform operating height restrictions.



NOTE: This option is only available for machines with platform control module part number 1001228112.

Horn

This push-button switch, when pressed, permits the operator to warn job site personnel when the machine is operating in the area.

Battery Charge Indicator



The battery charge indicator displays the cur-

rent charge status of the onboard batteries. RED LED flashing = batteries depleted, RED LED ON solid = batteries low, RED LED ON and GREEN LEDs ON = batteries FULL charge.

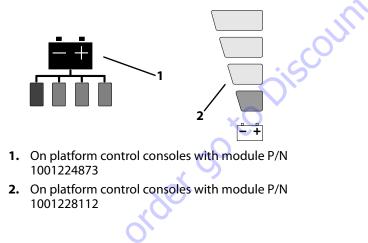
System Fault Indicator

When this indicator light **is flashing a system fault has occurred**, possibly stopping machine operation. Check the MDI indicator *(if equipped)* on the Ground Control Station to see if a (DTC) Diagnostic Trouble Code(s) is displayed. An explanation of DTC codes is shown in Section 5.8.



If the code cannot be cleared by the opera-

tor, the machine will require service by a qualified JLG mechanic.



Alarm

This alarm mounted on the front of the platform control station will sound for various machine conditions or warnings such as, system ready chirp or if the machine tilt warning is activated.

Indoor/Outdoor Operation Indicator

The Indoor (GREEN) indicator and the Outdoor (YELLOW) indicator displays which mode the machine is currently set to operate in.

Indoor/Outdoor Operation Mode Switch

This button will toggle between the indoor/outdoor operation modes.

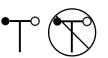
Low/High Drive Speed

The two position speed switch controls high or low range drive speed. High speed would be used in unobstructed open, flat, and level work areas. Low speed would be used in close work areas with obstacles, other machinery or personnel to avoid.

NOTE: Drive speed will automatically be reduced to low drive when the plat-

form is raised above the stowed position, regardless of speed switch position.





3.10 PLATFORM EXTENSION

(See Figure 3-7.)

This machine is equipped with an extension deck, giving the operator better access to certain work areas. The deck extension adds length to the front of the platform.

WARNING

FOR MAXIMUM CAPACITY OF THE DECK EXTENSION SEE SECTION 5, TABLE 5-2 OR REFER TO THE CAPACITY PLACARD ON THE PLATFORM BILLBOARD.

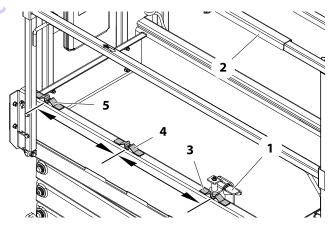
DO NOT "LOWER" WITHOUT COMPLETELY RETRACTING THE PLATFORM EXTENSION.

To extend the deck:

- 1. Push down on the locking mechanism lever (1) using your foot, while holding down on the lever, slide the top handrails (2) until the locking mechanism pin clears the rear platform extension lock (3).
- 2. Grasp the top handrails (2) of the extendible deck and push the extension out until the locking mechanism pin is locked into one of the forward platform extension locks (4) or (5).

To retract the deck:

- Push down on the locking mechanism lever (1) using your foot, hold down on the lever and slide the top handrails (2) rearward until the locking mechanism pin clears the forward platform extension locks (5) and (4).
- 2. Grasp the top handrails (2) of the extendible deck and pull the extension back until it hits the stops and the locking mechanism pin is locked into the rear platform extension lock (3).





3.11 PLATFORM RAILS FOLD-DOWN PROCEDURE (If Equipped)

See Figure 3-8.

DO NOT RAISE PLATFORM WITH RAILS FOLDED DOWN. THE RAILS MUST BE IN THE UPRIGHT POSITION AND PROPERLY PINNED WHEN RAISING THE PLATFORM.

NOTE: The rails must only be folded down when the machine is in the stowed (platform fully lowered) position. The platform control box must be removed from mount before the side rails are folded down.

The platform rails fold down from the mid rail only, except for the rear gate rail.

Platform with Dual Rail Extension Deck

See Figure 3-8.

The platform end rails fold-down first, then both the extension platform side rails and the main platform side rails will be folded down together.

The platform rails fold down in the following sequence; (See Figure 3-8.)

Remove the platform control box and place it on the platform deck.

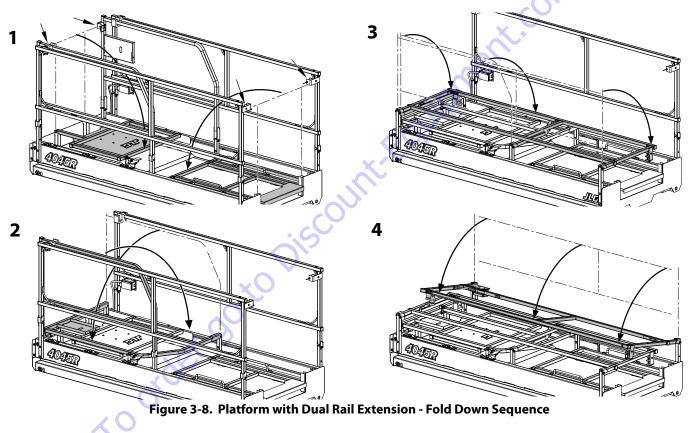
- 1. Remove platform top rail pins (four total two front, two rear) and fold the FRONT and REAR GATE platform rails down onto the platform deck.
- 2. Fold down both platform extension side rails next.
- 3. Fold down main platform left side rail.
- 4. Fold down main platform right side rail.

To raise the rails back to the upright position, unfold the rails in the reverse sequence they were folded and replace the rail pins into the rails.

NOTE: When setting platform side rails back to upright position be certain the extension platform rail guide is interlocked with the main platform rail once both rails are completely upright.

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.

IF OPERATING (DRIVING) MACHINE WITH PLATFORM CONTROL STATION FROM GROUND, WITH RAILS FOLDED, KEEP AT LEAST 3 FT. (1 M) DISTANCE FROM MACHINE.



Platform with Rail In Rail Extension Deck

(See Figure 3-9.)

The platform rails fold down in the following sequence;

- 1. At the rear gate rail, pull the pins at the top rail corners one (1) each side and fold the rear gate rail down onto the platform deck.
- 2. Before lowering side rails, the front deck extension sliding top and mid rail pins, one (1) each rail four (4) total, must be removed and sliding rails slid towards rear of machine and re-pinned to top and mid side rails. (Both Sides)

A - Reuse the top sliding rail pin hole to re-pin to the top side rail.

B - The mid sliding rail is provided a pinning hole under the lanyard attach lug, on the mid rail.

3. Remove the two (2) lower side rail pins and fold down RIGHT side rail.

Remove the two (2) lower side rail pins and fold down LEFT side rail.

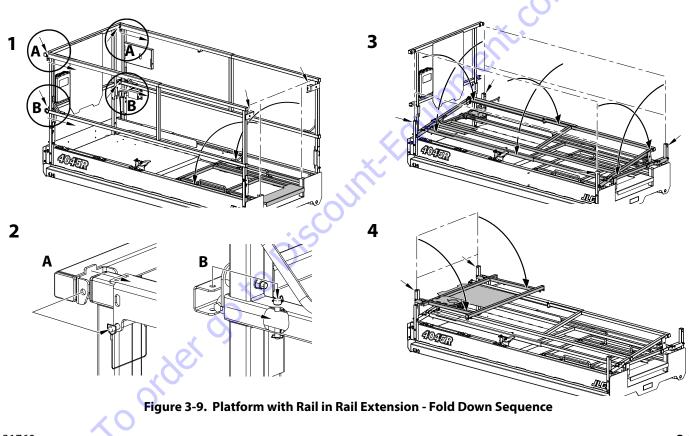
4. Remove the two (2) lower front rail pins and fold down FRONT platform extension rail.

To raise the rails back to the upright position, unfold the rails in the reverse sequence they were folded and replace the bail pins to secure rails.



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.

IF OPERATING (DRIVING) MACHINE WITH PLATFORM CONTROL STATION FROM GROUND, WITH RAILS FOLDED, KEEP AT LEAST 3 FT. (1 M) DISTANCE FROM MACHINE.



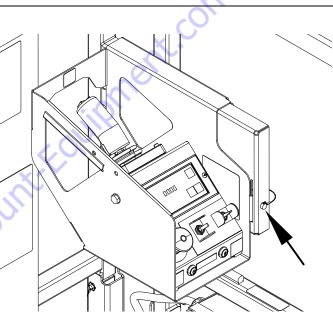
3.12 PARKING AND STOWING MACHINE

- 1. Drive the machine to a well-protected and well-ventilated area.
- 2. Ensure the platform is fully lowered.

NOTICE

WHEN THE MACHINE IS SHUT DOWN FOR OVERNIGHT PARKING OR BATTERY CHARGING, THE EMERGENCY STOP AND POWER SELECT SWITCHES MUST BE POSITIONED TO OFF TO PREVENT DRAINING THE BATTERIES.

- **3.** At the ground control station, turn the platform ground selector key switch to OFF and remove the key to disable the machine and prevent unauthorized use.
- **NOTE:** For added protection, the platform control station can be secured to it's mounting plate see Figure 3-10. Also the side compartment doors can be secured by placing a padlock through the holes provided just below the door latch on each door.
 - **4.** At the ground control station, depress emergency stop switch to the off position.
 - 5. If necessary, cover the platform control box, instruction placards, caution and warning decals so that they will be protected from hostile environment.
 - 6. Chock at least two wheels when parking the machine for an extended period of time.



To prevent unauthorized removal, the platform control station can be secured to it's mount by replacing the lock pin located on it's mounting tab with a keyed or combination lock.

Figure 3-10. Securing Control Station to Platform (All Machine Models)

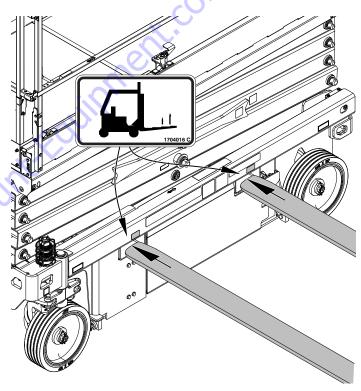
3.13 MACHINE LIFTING AND TIE DOWN

Lifting

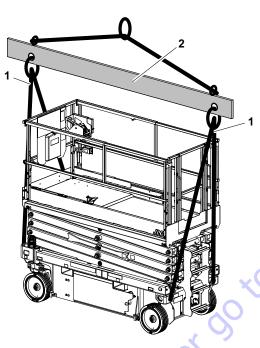
The machine may be lifted using a fork lift truck. Lift only using the built-in fork lift pockets on the side of the machine, and only with the platform in the stowed position. Adjust the width of the **forklift truck**, **lifting tines (1)** to properly fit the machine forklift pockets, *see Figure 3-11*. Slide the forklift tines into the forklift pockets and carefully lift machine.

The machine can also be lifted using a spreader bar and four equal length straps or chains capable of supporting the full gross weight of the machine, see Figure 3-12. Lift only using the lifting lugs provided at the four corners of the machine. (See Section 5, Machine Specifications for machine gross weight).

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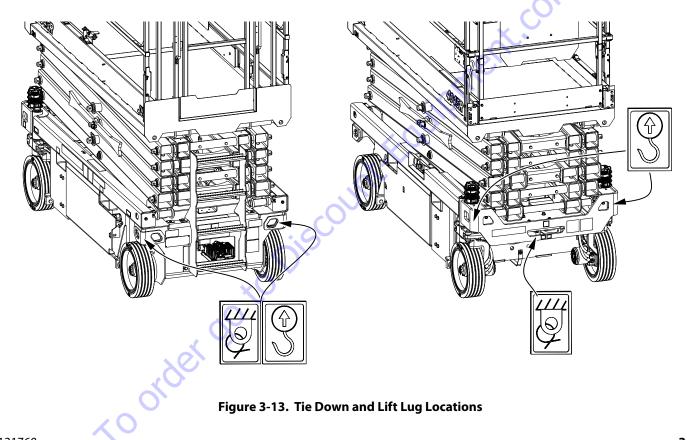


Tie Down

When transporting the machine, the platform must be fully lowered in the stowed position with the machine securely tied down to the truck or trailer deck. There are two tie-down and one lift lugs located at the front and two tie-down/lift lugs on the rear of the machine. (See Figure 3-13.)

Figure 3-12. Lifting Machine Using Spreader Bar and Lift Lug Locations

1. Four equal length chains or lift- **2.** Spreader Bar Assembly. ing straps.



3.14 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.

NOTE: If machine is disabled to a point where the hydraulic system cannot be operated, the steer circuit will also not be operational. Then the machine will only track in the direction the front wheels are currently set.

Hydraulic Brake Release (See Figure 3-14.)

CHOCK WHEELS OR SECURE MACHINE WITH TOW VEHICLE.

- 1. At the ground control station turn power off by pressing the Emergency Stop switch in.
- 2. Open the right side compartment door and locate the main hydraulic control valve.
- 3. Perform the following to set the drive motor control valve to tow mode. On the drive control valve locate the **tow mode needle valve knob (1)**, screw the valve out till it stops.
- 4. On the main valve body, to release the brakes, push the **BLACK brake override button (2)** in, (there is a detent which will hold the valve in place).

- Pump the RED knob (3) until pressure builds, approximately 5 to 10 strokes. The brakes should now be released.
- After towing is complete, release the BLACK brake override button (2) and screw the tow mode needle valve knob (1) all the way in to reset the hydraulic brake. Chock the machine wheels.

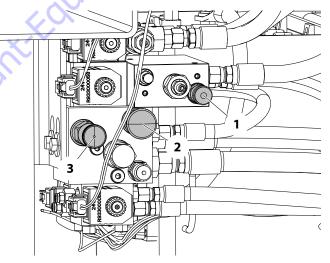


Figure 3-14. Hydraulic Brakes - Manual Disengage (Inside Right Side Compartment Door)

SECTION 4. EMERGENCY PROCEDURES

4.1 GENERAL INFORMATION

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

4.2 EMERGENCY OPERATION

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 in the platform may use the platform controls. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION PROPERLY.
- **3.** Rescue equipment can be used to remove the platform occupant(s). Cranes and forklifts can be used to stabilize motion of the machine.

Platform Caught Overhead

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

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

Righting of Tipped Machine

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.

4.3 PLATFORM MANUAL DESCENT

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 left rear of the machine, just below the platform ladder. Look for the instruction decal located beside the release handle.

The lowering procedure is as follows:

1. Locate the manual descent control T-handle. (See Figure 4-1.)

A WARNING

KEEP HANDS AND ARMS OUT OF THE PATH OF THE SCISSOR ARMS AND PLAT-FORM 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 it's closed position.

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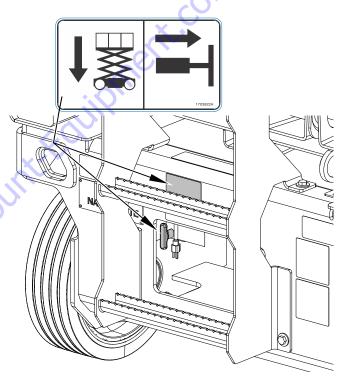


Figure 4-1. Location of Manual Descent Control (Left Rear of Machine)

SECTION 4 - EMERGENCY PROCEDURES

4.4 INCIDENT NOTIFICATION

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

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

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

NOTICE

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

SECTION 4 - EMERGENCY PROCEDURES 📈 NOTES: 3121760

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SECTION 5. GENERAL SPECIFICATIONS AND MAINTENANCE

5.1 INTRODUCTION

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

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

oru

Other Publications Available Specific to this Machine

Service and Maintenance Manual	3121761
Illustrated Parts Manual	3121759

5.2 OPERATING SPECIFICATIONS

Table 5-1. Operating Specifications

DESCRIPTION		4045R
PLATFORM		ANSI/CSA/CE/AUS/GB
Maximum Platform Height (Ground to Platform I	-loor - Elevated)	39.3 ft. (11.9 m)
Machine Height (Ground to Top of Rails)		8ft.4in.(2.549m)
Machine Height - Rails Folded (Ground to Top of F	olded Rails)	6 ft. 3 in. (1.903m)
Platform Lift Time (seconds/rated load)	Lift Up: Lift Down:	73 seconds 48 seconds
Electronic Arm Guards (Activation Height)	. C	75 in. (190.5 cm)
DRIVING	2	
Maximum On anating Clana	E LI D L	2 59
Maximum Operating Slope	Front to Back: Side to Side:	3.5° 1.5°
		515
(platform fully elevated)		1.5°

DESCRIPTION		4045R
Elevated Drive Height		
	Indoor:	39ft. (11.9m)
	Outdoor:	28.7 ft. (8.75 m) - ANSI/CE/CSA/0
		39 ft. (11.9 m) - AUS
Turning Radius	Inside:	0 in. (0 cm)
	(Curb to Curb) Outside:	92 in. (233.3 cm)
CHASSIS		
Approximate Gross Machine Weight	ANSI/CE/CSA/GB:	7,000 lb. (3175 kg)
	AUS:	7,525 lb. (3413 kg)
Wheelbase	C	80 in. (2.032m)
Machine Overall Width		45 in. (1.143m)
Maximum Tire Load (per wheel)		2,680 lb. (1216 kg)
Ground Bearing Pressure		137 psi (943 kPa)
Ground Clearance	PHP Retracted:	5 in. (126 mm)
	PHP Deployed:	1.26 in. (32 mm)
Break Over Angle (Grade)		14.5°(26%)
Maximum Hydraulic Pressure	Main Relief:	3000 psi (207 bar)
ser .	Steer Relief:	1250 psi (86 bar)
10 ⁻	Lift Relief:	2500 psi (172 bar)
0		
•		

Table 5-1. Operating Specifications (Continued)

· O order ·

Platform Capacities

Table 5-2. Platform Capacities

SPECIFICATION	MAXIMUM OPERATING HEIGHT	MAXIMUM Platform Capacity ⁽¹⁾	MAXIMUM CAPACITY ALLOWED ON PLATFORM Extension	MAXIMUM PERSONS Allowed in Platform	MAX. SIDE FORCE (Platform Fully Extended @ Max. Capacity)	MAXIMUM OPERATING WIND SPEED	ENVIRONMENT ⁽²⁾
ANSI/CSA/CE/AUS/GB	FULL	770 lb. (350 Kg)		3 Persons + 242 lb. (110 Kg)	90 lb. (400 N)	0 mph (0 m/s)	INDOOR
			25011 (1121/)				
ANSI/CSA/CE/AUS/GB	29ft (8.8 m)	550 lb. (249 Kg)	250 lb. (113 Kg)	1 Person + 371 lb. (169 Kg)		20 mm h (12 5 m /s)	
AUS	FULL	300 lb. (136 Kg)		1 Person + 124 lb. (56 Kg)	45 lb. (200 N)	28 mph (12.5 m/s)	OUTDOOR

NOTE: (1) Maximum Platform Capacity includes platform and platform extension. (2) INDOOR USE is use of a MEWP in areas shielded from wind so that there is no wind. OUTDOOR USE is use of a MEWP in an environment that can be exposed to wind.

1001220378_C, 1001229804_B, 1001231228_A

Machine Dimensional Data

Table 5-3. Dimensions

Tires

Table 5-4. Tire Specifications

DESCRIPTION	4045R
Size	16 in.x 5 in. (40.6 cm x12.7 cm)
Wheel Nut Torque (1-1/8 inch - Slotted Nut with Cotter Pin)	150 ft lb. (203 Nm)

70 order 00

Batteries

DESCRIPTION	4045R						
DESCRIPTION	Lea	AGM					
Voltage (24V System - Series)	12V per battery						
Amp Hour Rating	150 Amp Hour @ 20 Hr. Rate	185 Amp Hour @ 20 Hr. Rate	150 Amp Hour @ 20 Hr. Rate				
Reserve Capacity	280 Minutes @ 25 Amps	324 Minutes @ 25 Amps	320 Minutes @ 25 Amps				
Weight (each battery)	82 lb. (37 Kg)	106 lb. (48 Kg)	88 lb. (40 Kg)				

Table 5-5. OEM Battery Specifications

Electrical System

DESCRIPTION	4045R							
Electrical System Voltage (DC)	24V							
Battery Charger:	Delta-Q	PRO - Eagle Perf. Series	Green Power - Pylon International					
Input:								
AC Input Voltage:	85-270V AC	108-132V AC	100-240V AC					
Nominal AC Input Voltage:	100VAC / 240VAC RMS	120VAC						
Input Frequency:	50-60Hz	45 - 65Hz	45-65Hz					
Max. AC Input Current:	7.5A	12A	8.5A					
Ingress Protection:	IP66 NEMA4 Type 4	IP35	IP66					
Operating Temperature:	-40°F (-40°C) to 149°F (+65°C)	→22°F (-30°C) to 122°F (+50°C)	-4°F (-20°C) to 122°F (+50°C)					
Output:								
Nominal DC Output Voltage:	24V	24V	24V					
Max. DC Output Voltage:	36V	31.92V	34V					
Max DC Output Current:	27.1A	25A	30A					
Max. Interlock Current:	1A@24V	1A@24V	1A@24V					
Protection:								
Output Reverse Polarity:	Electronic Protection-Auto Reset	Electronic Protection-Auto Reset	Electronic Protection-Auto Reset					
Output Short Circuit:	CurrentLimited	Electronic Protection-Auto Reset	Electronic Protection-Auto Reset					
ACOverload:	Current Limited	Branch Circuit Protection	Current Limited					
DC Overload:	Current Limited	Current Limited	Current Limited					
NOTE: See LED indicato	or status of each charger star	ting on page 5-14 of this sec	ction.					

Table 5-6. Battery Charger Specifications

5.3 CRITICAL STABILITY WEIGHTS

WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY, SUCH AS BATTERIES OR TIRES, WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION. DO NOT MODIFY THE MEWP IN ANY WAY TO AFFECT STABILITY.

Table 5-7. Critical Stability Weights

COMPONEN	4045R			
Wheel and Tire Assembly (52.7 lb. (23.9 kg)			
Wheel/Tire and Drive Asse	mbly (each)	81.1 lb. (36.8 kg)		
Wheel/Tire and Brake Asse	embly (each)	89.7 lb. (40.7 kg)		
Batteries (each)	Batteries (each) Standard:			
		106 lb. (48 kg) - 185AH <		
	AGM:	88 lb. (40 kg)		
Batteries (combined X 4) Standard		328 lb. (148 kg) - 150AH		
		424 lb. (192 kg) - 185AH		
	AGM:	352 lb. (160 kg)		
		der		

5.4 LUBRICATION

Lubrication Capacities

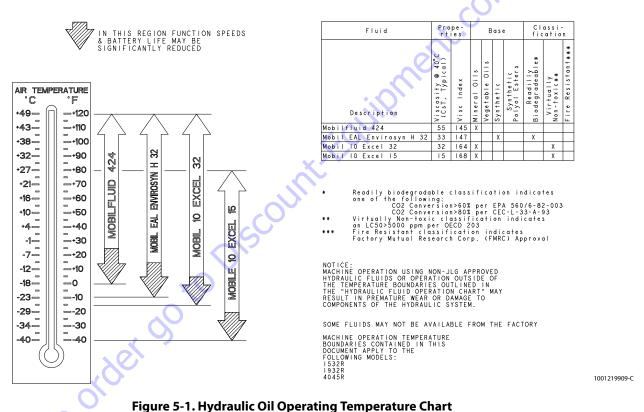
Table 5-8. Capacities

COMPONENT	4045R
draulic Reservoir t Full mark)	6.6 Gal. (25L)
draulic System cluding Reservoir)	7.9 Gal. (30 L)

Lubrication Specifications

Table 5-9. Lubrication Specifications

KEY	SPECIFICATIONS							
MPG	Multipurpose Grease having a minimum dripping point of 350° F. Excel- lent water resistance and adhesive qualities, and being of extreme pres- sure type. (Timken OK 40 pounds minimum.)							
EPGL	Extreme Pressure Gear Lube (oil) meeting API service classification GL-5 or MIL-Spec MIL-L-2105.							
HO	JLG Recommends - Mobil - Mobilfluid 424 Mobil EAL ENVIRONSYN H 32 Mobil SHC HYDRAULIC EAL 32 EAL and SHC are compatible with each other.							



5.5 OPERATOR MAINTENANCE

Scissor Arm - Safety Props (See Figure 5-2.)

WARNING

NEVER WORK UNDER AN ELEVATED PLATFORM UNTIL IT HAS BEEN RESTRAINED FROM MOVEMENT WITH THE SAFETY PROPS, BLOCKING OR OVERHEAD SLING.

BOTH SAFETY PROPS MUST BE USED WHENEVER MAINTENANCE PERFORMED ON THE MACHINE REQUIRES THE SCISSOR ARMS TO BE RAISED AND ONLY WITH NO LOAD IN THE PLATFORM.

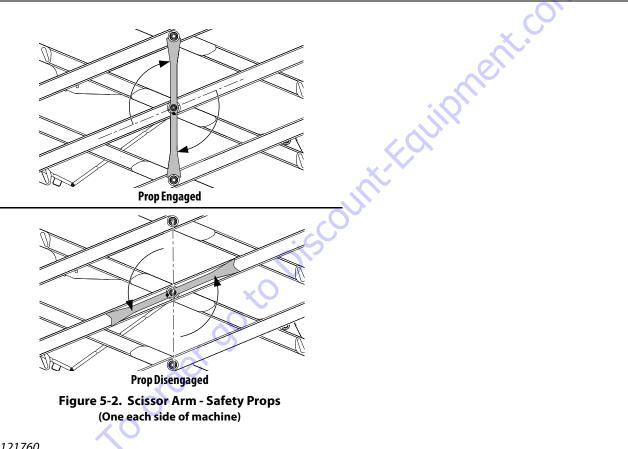
The safety props are located, one each side of the machine on the scissor arms.

To engage the safety props:

- 1. From the Ground Control Station, raise the platform far enough to allow the safety props to be engaged.
- 2. Release the locking pin and rotate the prop on each side of machine. Always set both when engaging.
- 3. Lower the platform until the safety props rest against the safety prop stops on the arm set below it, stopping all downward movement of the platform/scissor arm assembly.

To disengage the safety props:

- 1. Raise the platform enough to release the safety props off the safety prop stops.
- 2. Rotate the prop assemblies until they align with the scissor arm and the release pin locks into the detent disk behind the arm.



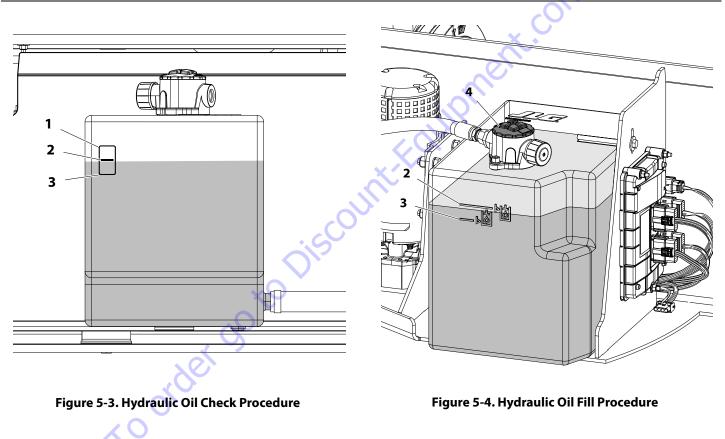
Hydraulic Oil Check Procedure

(See Figure 5-3., and 5-4.) Lube Point(s) - Hydraulic Reservoir Reservoir Capacity - See Table 5-8 on page 5-8. Lube - Hydraulic Oil Interval - Check Daily

- **NOTE:** Check the hydraulic oil level with the platform in the stowed position ONLY. Be certain the hydraulic oil has warmed to operating temperature before checking the oil level in the reservoir.
 - On the right side of the machine on the hydraulic compartment door there is a **cutout (1)** which allows viewing of the hydraulic oil tank **marking (2)**. The reservoir is marked with a **MAX (maximum) marking (2)**. The **MIN marking (3)** is the bottom edge of the cutout on the door. The oil level must be kept within these markings for the hydraulic system to operate properly.

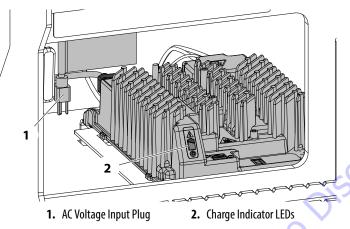
order

- If additional oil is required, swing compartment door open and wipe all dirt and debris from the filler/filter cap (4) area. Remove filler cap and add proper grade of oil. Fill until oil level is close to the MAX marking (3), but not over the MAX marking.
- **NOTE:** Care should be taken not to introduce any impurities (dirt, water, etc.) while cap is removed.
- **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.



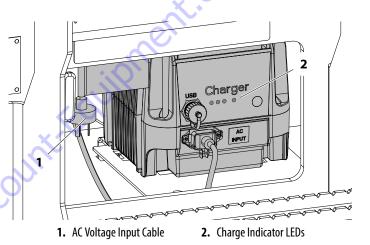
Delta-Q - Battery Charger

All chargers are located at rear of machine inside chassis.

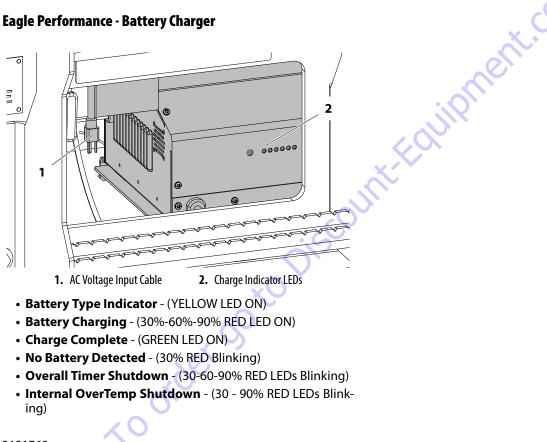


- AC Power On BLUE LED ON
- Low State of Charge (Bottom Panel GREEN LED Flashing) - (Top Panel - GREEN LED OFF)
- High State of Charge (Bottom Panel GREEN LED ON) -(Top Panel - GREEN LED Flashing)
- Charge Complete (Bottom Panel GREEN LED ON) (Top Panel - GREEN LED ON)
- Fault Indicator (RED LED ON)
- External Error Condition Caution (AMBER LED Flashing)

Green Power - Battery Charger (China (GB) Only)



- Battery Charging (YELLOW LED AGM Flashes Quickly /FLOODED - Remains ON/ AGM-FLOODED - Flashes Slowly)
- Charge Complete (GREEN LED ON)
- Fault Indicator (RED LED ON)
- **Performing Self-Diagnostic** (YELLOW and GREEN LEDs Flashing Simultaneously)



Battery Maintenance and Safety Practices

NOTE: These instructions are for unsealed (wet) batteries only. If machine is equipped with sealed batteries, no maintenance other than cleaning corroded battery terminals is required.

ENSURE THAT BATTERY ACID DOES NOT COME INTO CONTACT WITH SKIN OR CLOTHING. WEAR PROTECTIVE CLOTHING AND EYEWEAR WHEN WORKING WITH BATTERIES. NEUTRALIZE ANY BATTERY ACID SPILLS WITH BAKING SODA AND WATER.

BATTERY ACID RELEASES AN EXPLOSIVE GAS WHILE CHARGING, ALLOW NO OPEN FLAMES, SPARKS OR LIGHTED TOBACCO PRODUCTS IN THE AREA WHILE CHARG-ING BATTERIES. CHARGE BATTERIES ONLY IN A WELL VENTILATED AREA. ADD ONLY DISTILLED WATER TO BATTERIES. WHEN ADDING DISTILLED WATER TO THE BATTERIES, A NON-METALLIC CONTAINER AND/OR FUNNEL MUST BE USED.

Check the electrolyte level of the batteries often, adding only distilled water when required. When fully charged, battery fluid level should be 1/8" below vent tubes. (See Figure 5-5.).

- DO NOT fill to bottom of vent tubes.
- DO NOT allow fluid level to go below the top of the plates when charging or operating.

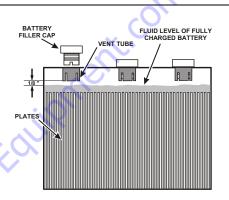


Figure 5-5. Battery Fluid Level.

Battery Quick-Disconnect (If Equipped)

Machines equipped with the battery quick-disconnect allow all machine power to be easily disconnected at the batteries without removing battery cables from the battery posts. To discon-



nect power, locate the RED quick-disconnect connector on top of the batteries inside the battery compartment and pull halves apart.

Tire Wear and Damage

The tire and rim assemblies installed on machines have been approved by the tire manufacturer for applications in which those products are intended to be used. The tire and rims installed on each product model have been designed for stability requirements, which consist of track width, tire compound, and load capacity. Tire changes such as rim width, centerpiece location, larger or smaller diameter, tire compound, etc., without written manufacturers approval, could result in an unsafe condition regarding stability.

The tires and rims installed on machines are to be inspected daily as part of the daily walk-around inspection. JLG requires that the daily walk-around inspection be performed at each operator change during a shift and at each shift change.

Wheel and Tire Replacement

JLG recommends that any replacement tire be the same size and brand as originally installed on the machine or offered by JLG as an approved replacement. Please refer to the JLG Parts Manual for the part number of the approved tires for a particular machine model.

If any of the following is discovered during tire inspection, measures must be taken to remove the JLG product from service immediately. Arrangements must be made for replacement of the tire(s) or tire assembly(s). Both tires/wheels on the same axle must be replaced:

• If the overall diameter of the tire is less than one of the following:

406 x 127 Tire – 15.55 in. (395mm) minimum

• If any uneven wear is discovered.

A tire with significant damage in the tread area or sidewall requires immediate evaluation before placing the machine into service. If a cut, tear, chunk, or other discrepancy exceeds any one or more of the following dimensions, the tire must be replaced:

3.0 in. (76 mm) long 0.75 in. (19 mm) wide 0.75 in. (19 mm) deep

- If the metal wheel is visible at any point through the tread area of the tire.
- If more than one discrepancy exists in any quadrant of the wheel (within 90 degrees of one another).

Wheel Installation

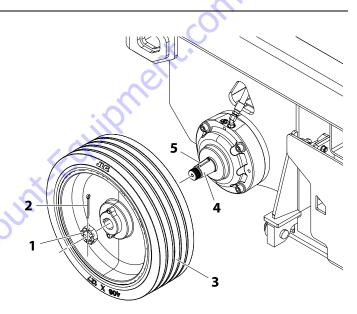
It is extremely important to apply and maintain proper wheel mounting torque.

WARNING

WHEEL SLOTTED NUTS MUST BE INSTALLED AND MAINTAINED AT THE PROPER TORQUE TO PREVENT LOOSE WHEELS, A BROKEN NUT, AND POSSIBLE SEPARA-TION OF WHEEL FROM THE AXLE.

Tighten the slotted nuts to the proper torque to prevent wheels from coming loose. Use a torque wrench to tighten the slotted nuts. The proper procedure for attaching wheels is as follows:

- 1. If not already installed, install shaft key (5) to shaft and align with wheel keyway, install wheel and hub (3) onto tapered shaft (4).
- 2. Start slotted nut (1) by hand to prevent cross threading. DO NOT use a lubricant on threads or nut.
- 3. Torque the slotted nut to 150 ft. lb. (203 Nm).
- 4. Install cotter pin (2), if hole in slots do not align with cotter pin hole on the tapered shaft, continue to turn nut clockwise to align nut with hole. Do not loosen to align hole.



1. Slotted Nut

4. Tapered Shaft

2. Cotter Pin

5. Shaft Key

3. Wheel and Hub Assembly

Figure 5-6. Wheel Installation

5.6 SUPPLEMENTAL INFORMATION

The following information is provided in accordance with the requirements of the European Machinery Directive 2006/42/EC and is only applicable to CE machines.

For electric powered machines, the equivalent continuous A-Weighted sound pressure level at the work platform is less than 70dB(A).

For combustion engine powered machines, guaranteed Sound Power Level (LWA) per European Directive 2000/ 14/EC (Noise Emission in the Environment by Equipment for Use Outdoors) based on test methods in accordance with Annex III, Part B, Method 1 and 0 of the directive, is 109 dB.

The vibration total value to which the hand-arm system is subjected does not exceed 2,5 m/s2. The highest root mean square value of weighted acceleration to which the whole body is subjected does not exceed 0,5 m/s2.

5.7 DECAL INSTALLATION

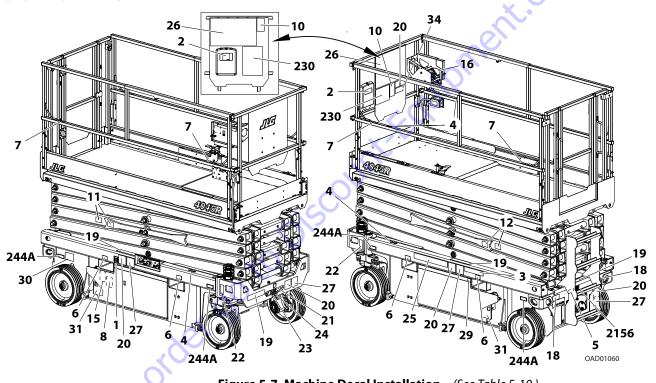


Figure 5-7. Machine Decal Installation (See Table 5-10.)

ITEM	ENGLISH (1001222124)	ENG/KOR (1001222125)	ENG/CHI (1001222126)	SPA/POR (1001222127)	ENG/SPA (1001222128)	ENG/FRE (1001222129)	CE (1001222130)	AUS (1001222131)
1	1701504	1701504	1701504	1701504	1701504	1701504	1701504	1701504
2	1701640	1701640	1701640	1701640	1701640	1701640	1701640	1701640
3	1703813	1707022	1704344	1704341	1704339	1704339	1705670	1705670
4	1703819	1703819	1703819	1703819	1703819	1703819	1703819	1703819
5	1703822	1703822	1703822	1703822	1703822	1703822	1703822	1703822
6	1704016	1704016	1704016	1704016	1704016	1704016	1704016	1704016
7	1704277	1704277	1704277	1704277	1704277	1704277	1704277	1704277
8	1704412	1704412	1704412	1704412	1704412	1704412	1704412	1704412
9		—		2	_	_	_	—
10	1705686	1706057	1705946	1705726	1705720	1705723		_
11	1001228641	1001228641	1001228641 <	1001228641	1001228641	1001228641	1001228641	1001228641
12	1001228642	1001228642	1001228642	1001228642	1001228642	1001228642	1001228642	1001228642
13	_	—	–×O					—
14		—			_		_	—
15	1001131270	—	2	_	_	1001131270	_	—
16	1001132359	1001132359	1001132359	1001132359	1001132359	1001132359	1001132359	1001132359
17		0			_	_	—	—
18	1001162864	1001162864	1001162864	1001162864	1001162864	1001162864	1001162864	1001162864
19	1001211777	1001215751	1001215752	1001216650	1001215754	1001215755	1705673	1705673
20	1001211779	1001211779	1001211779	1001215748	1001211779	1001211779	1705671	1705671

ITEM	ENGLISH	ENG/KOR	ENG/CHI	SPA/POR	ENG/SPA	ENG/FRE	CE CE	AUS
ITEM	(1001222124)	(1001222125)	(1001222126)	(1001222127)	(1001222128)	(1001222129)	(1001222130)	(1001222131)
21	1001212290	1001212290	1001212290	1001212290	1001212290	1001212290	1001212290	1001212290
22	1001213442	1001213442	1001213442	1001213442	1001213442	1001213442	1001213442	1001212291
23	1001212292	1001212292	1001212292	1001212292	1001212292	1001212292	1001212292	1001212292
24	1001212293	1001212293	1001212293	1001212293	1001212293	1001212293	1001212293	1001212293
25	1001146794	1001146794	1001146794	1001146794	1001146794	1001146794	1001146795	1001146794
26	1703816	1001162115	1705195	1704699	1704691	1704684	—	—
27	—	1001215750	1001215747	1001216648	1001215748	1001215749	—	_
28	—	—	—		<u> </u>	_	—	—
29	1702155	1702155	1702155	1702155	1702155	1702155	1702155	—
30	1001223055	1001224048	1001224051	1001224052	1001224049	1001223971		_
31	1001225620	1001225620	1001225620	1001225620	1001225620	1001225620	1001225620	1001225620
32	1001225621	1001225621	1001225621	1001225621	1001225621	1001225621	1001225621	1001225621
33	1001225622	1001225622	1001225622 💊	1001225622	1001225622	1001225622	1001225622	1001225622
34	1001231801						_	_
230	1001220378	1001220378	1001220378	1001220378	1001220378	1001220378	1001220378	1001229804
244A	1001224553	1001224553	1001224553	1001224553	1001224553	1001224553	1001224553	1001224553
2156		_					1001173703	

Table 5-10. Machine Decal Installation Chart - 4045R

NOTE: Reference applicable Illustrated Parts Manual for decal description.

5.8 DIAGNOSTIC TROUBLE CODES (DTC)

NOTICE

THE DTC CODES LISTED IN THE FOLLOWING TABLE IS NOT A COMPLETE LIST-ING OF MACHINE DTC CODES. THIS LISTING SHOWS ONLY THOSE DTC'S WHICH AN OPERATOR MAY BE ABLE TO CORRECT DUE TO OPERATING ERROR.

The DTC table following is sorted in groups by the first two digits, these digits represent the number of flashes the system distress indicator lamp will flash on the platform indicator panel when a fault occurs.

The more detailed three to five digit code numbers in the DTC column of the following tables are only indicated on a JLG handheld diagnostic analyzer connected to the machine, or on the Ground Control Station - MDI indicator, if equipped.

To troubleshoot multiple DTCs, start with the DTC with the higher first two digits.

If a correction is made during a check, conclude the check by cycling the machine power off then back on, using the emergency stop switch.

NOTICE

SHOULD A FAULT OCCUR WHICH CANNOT BE CORRECTED BY THE OPERATOR, THE PROBLEM MUST BE REFERRED TO A QUALIFIED JLG MECHANIC.

Table 5-11. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger
001	EVERYTHING OK	None	None	• No Motion restrictions	Platform Mode and no Faults are active.
002	GROUND MODE OK	None	None	• No Motion restrictions	Ground Mode and no Faults are active.
003	ALARM SOUNDING — TILTED & ABOVE Elevation	PF: Continuous	None	No Motion restrictions	Platform is elevated and chassis is not level
004	DRIVING AT CUTBACK — ABOVE ELEVA- TION	None	None	• DriveState = CREEP	 Platform is elevated and the machine is in the drive mode of operation
005	DRIVE & LIFT UP PREVENTED TILTED & ELEVATED	PF: Continuous	None	• DriveState = PREVENTED • LiftUpState = PREVENTED	 Driving and lift up are not possible since the platform is ele- vated and the chassis is not level.
006	LIFT UP PREVENTED – MAX HEIGHT Zone A	None	None	• LiftUpState = PREVENTED	 The vehicle has reached the maximum height allowed by the Indoor/Outdoor selection and further lift up motion is not possible.
007	DRIVING AT CUTBACK – POTHOLE STILL ENGAGED	None	None	• DriveState = CREEP	 While stowed, drive speed is reduced (due to lower ground clearance) since the control system detected that the pothole protection mechanism is deployed (failed to retract). Clear the obstacle blocking the pothole protection mechanism, repair the mechanical problem, re-adjust the pothole limit switches, or repair the wiring to correct the problem. Alternately, there may be difficulty with the Elevation Angle Sensor that causes the Control System to improperly believe the platform is stowed.

Table 5-11. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger			
008	FUNCTIONS LOCKED OUT – SYSTEM POWERED DOWN	None	None	Enter SafeMode LiftDownState = PREVENTED	 A period of time elapsed without activity and the Control System entered a low-power state to preserve battery charge (2 hours). Cycle the Ground EMS in GroundMode or the Platform EMS in PlatformMode to re-enable the vehicle. Two hours (10 minutes if GroundMode) without Drive Forward, Drive Reverse, Lift Up, Lift Down, Steer Left, or Steer Right. Timer resets if user changes PlatformMode/GroundMode 			
009	DRIVE PREVENTED — ELEVATED ABOVE DRIVE CUTOUT HEIGHT	None	None	• DriveState = PREVENTED	 The Drive Cutout functionality is enabled, and the Platform is Elevated above the Calibrated Cutout Height. 			
211	POWER CYCLE	None	2_1	No Motion restrictions	 This Help Message is issued at each power-up. This serves to indicate which messages have been recorded in the failure log since the last power-up event. 			
212	KEYSWITCH FAULTY	None	2_1	Force to GroundMode	 Both the Ground Select and Platform Select signals are ener- gized, which means there is an issue with the keyswitch or one of the lines are shorted to battery. 			
221	FUNCTION PROBLEM – HORN PERMA- NENTLY SELECTED	None	2_2	Horn Prevented	 Horn Switch in the Platform Control Box was closed during power-up. Release or repair the switch to clear the message. 			
	orde							
312176	5-25							

Table 5-11. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger
2210	TRIGGER CLOSED TOO LONG WHILE IN NEUTRAL	None	2_2	 TriggerState = FALSE there- fore DriveState = PREVENTED LiftUpState = PREVENTED LiftDownState = PREVENTED 	• Trigger Switch on the Platform Control Box was closed for more than five seconds while the Joystick (accelerator) was in the neutral position (centered). Release switch or repair the switch / wiring to clear the difficulty.
222	FUNCTION PROBLEM - INDOOR / OUT- DOOR PERMANENTLY SELECTED	None	2_2	• Previously selected Indoor / Outdoor Mode maintained	 Indoor / Outdoor Switch in the Platform Control Box was closed during power-up. Release or repair the switch to clear the message.
223	FUNCTION PROBLEM – DRIVE & LIFT ACTIVE TOGETHER	None	2_2	MoveState = LIFT DriveState = PREVENTED LiftUpState = PREVENTED LiftDownState = PREVENTED	 The Drive - Lift Selector Switch indicates that both functions are selected simultaneously. Repair the wiring or switch to clear the message.
2232	FUNCTION PROBLEM – DRIVE & LIFT BOTH OPEN	None	2_2	• MoveState = LIFT • DriveState = PREVENTED • LiftUpState = PREVENTED • LiftDownState = PREVENTED	 In PlatformMode, the Drive - Lift Selector Switch indicates that neither function is selected. Repair the wiring or switch to clear the message.
224	FUNCTION PROBLEM — STEER LEFT PERMANENTLY SELECTED	None	2_2	• DriveState = PREVENTED	 Steer Left Switch in the Platform Control Box was closed dur- ing power-up. Release or repair the switch to clear the mes- sage.
	05				
5-26	$\langle 0 \rangle$				3121760

Table 5-11. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger		
225	FUNCTION PROBLEM — STEER RIGHT PERMANENTLY SELECTED	None	2_2	OriveState = PREVENTED	• Steer Right Switch in the Platform Control Box was closed during power-up. Release or repair the switch to clear the message.		
228	FUNCTION LOCKED OUT — ACCELERA- TOR NOT CENTERED	None	2_2	• DriveState = PREVENTED • LiftUpState = PREVENTED • LiftDownState = PREVENTED	 Selected function (Drive or Lift) is not allowed because the joystick (accelerator) was not centered at power-up. Return joystick to center momentarily. 		
229	FUNCTION PROBLEM — TRIGGER PER- MANENTLY CLOSED	None	2_2	• DriveState = PREVENTED • LiftUpState = PREVENTED • LiftDownState = PREVENTED	 Trigger Switch in the Platform Control Box was closed at power-up. Release switch or repair the switch / wiring to clear the difficulty. 		
231	FUNCTION PROBLEM — LIFT PERMA- NENTLY SELECTED	None	2_3	In GroundMode then LiftUpState = PREVENTED LiftDownState = PREVENTED 	 Lift Switch (Up or Down) in the Ground Control Box was closed during power-up. Release or repair the switch to clear the message. 		
232	GROUND LIFT UP/DOWN ACTIVE TOGETHER	None	2_3	In GroundMode then • LiftUpState = PREVENTED • LiftDownState = PREVENTED	 In GroundMode, the control system has detected the Lift Up and Down are active simultaneously. Check the Lift Switch and associated wiring in the Ground Control Box. 		
242	AMBIENT TEMPERATURE SENSOR OUT OF RANGE HIGH	PF: Continuous	2_4	Drive and Lift Restrictions	 The temperature as communicated by the temperature/tilt sensor is greater than 185° F (85° C). 		
253	DRIVE PREVENTED – CHARGER CON- NECTED	None	2_5	• DriveState = PREVENTED	• Driving is not possible since the vehicle is charging.		
254	DRIVE & LIFT UP PREVENTED - CHAR- GER CONNECTED	None	2_5	• DriveState = PREVENTED • LiftUpState = PREVENTED	 Driving and Lifting are not possible since the vehicle is charg- ing and it is configured to prevent all motion. 		
242474							

Table 5-11.	Diagnostic Trouble Code	s (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger		
255	PLATFORM OVERLOADED	PF: 5000ms ON/2000ms OFF GND: 5000ms ON/2000ms OFF	2_5	• Drive and Lift Restrictions	 While the Load Sensing System is enabled, the Platform Load measured by the Load Sensing System is excessive. Functions from Platform Control Station are prevented, and functions from Ground Control may be prevented, depending on machine configuration. Refer to LSS functionality for Lift and Drive restrictions. 		
256	DRIVE PREVENTED — POTHOLE NOT ENGAGED	PF: 500ms On/ 500ms Off GND: 500ms On/500ms Off	2_5	• DriveState = PREVENTED	 While elevated, driving is not possible since the control system detected that the pot-hole protection mechanism failed to deploy. Clear the obstacle blocking the pot-hole protection mechanism, repair the mechanical problem, re-adjust the pot-hole limit switches, or repair the wiring to correct the problem. Alternately, there may be difficulty with the Elevation Angle Sensor that causes the Control System to improperly believe the platform is elevated. 		
5-28	the platform is elevated.						

Table 5-11	Diagnostic	Trouble	Codes	(DTC)
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DTC	Help Message	Alarm	Flash Code	Action	Trigger			
2568	TEMPERATURE CUTOUT ACTIVE - AMBI- ENT TEMPERATURE TOO LOW	If Transport- Mode = TRUE PF: Continuous If Transport- Mode = FALSE PF: OFF	2_5	Drive and Lift Restrictions	 The temperature as communicated by the temperature sensor located on the temperature/tilt sensor is less than or equal to {PERSONALITIES->TEMP CUTOUT->CUTOUT SET} (See Low Temperature Cutout Functionality) This DTC shall not be displayed in GroundMode, and no restrictions shall be implemented. 			
421	POWER MODULE TOO HOT - PLEASE WAIT	None	4_2	OriveState = PREVENTED LiftUpState = PREVENTED	 Heatsink temperature above 203°F (95° C). Possible Cause: Controller is operating in an extreme environment. Excessive load on vehicle. Improper mounting of controller 			
4235	POWER MODULE TOO HOT - REDUCED OPERATION	None	4_2	• DriveState =CREEP • LiftUpState = CREEP	 Heatsink temperature exceeded 185° F (85° C). <u>Effect:</u> Reduced drive and brake torque. <u>Possible Cause:</u> Controller is performance-limited at this temperature. Controller is operating in an extreme environment. Excessive load on vehicle Improper mounting of controller. 			
4236	POWER MODULE TOO COLD - MODULE SHUTDOWN	None	4_2	 DriveState = PREVENTED LiftUpState = PREVENTED 	 Heatsink temperature below -40° F(-40°C). <u>Possible Cause:</u> Controller is operating in an extreme environment. 			
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Table 5-11.	Diagnostic	Trouble	Codes (DTC)	

DTC	Help Message	Alarm	Flash Code	Action	Trigger
426	MASTER MODULE TEMPERATURE	None	4_2	Normal operation	• The Ground Module's internal temperature sensor is out of range. (< 104° F (40° C) or > 302° F (150° C)
441	BATTERY VOLTAGE TOO LOW - SYSTEM SHUTDOWN	None	4_4	SafeMode LiftDownState = PREVENTED	 Battery Voltage(VBAT) momentarily dropped below 14.5V when using flooded lead-acid batteries, or 16.0V when using AGM batteries. With a low battery charge, this can occur dur- ing heavy current demand due to Drive, Steer, or Lift Up. Recharge batteries or check for damaged batteries, sulfated batteries, or poor power connections.
442	BATTERY VOLTAGE TOO HIGH — SYSTEM Shutdown	None	4_4	• Enter SafeMode • LiftDownState = MAX	 The Ground Module measured excessively high battery volt- age (VBAT) (>32.0V) and de-energized the Main Line Contac- tor and Battery Relay to protect system devices and was unable to bring voltage down to normal operating range. This may be due to improper battery charging or incorrect voltage batteries being used.
4421	LOGIC SUPPLY VOLTAGE OUT OF RANGE HIGH	None	4_4	• Enter SafeMode • LiftDownState = MAX	 The Ground Module's VSW voltage was measured to be more than 32V. This may be caused by loose battery terminal, severely discharge batteries, a damaged battery, or an improper wire harness connection.
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Table 5-11.	Diagnostic	Trouble	Codes	(DTC)
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DTC	Help Message	Alarm	Flash Code	Action	Trigger		
4424	POWER MODULE VOLTAGE TOO LOW - MODULE SHUTDOWN	None	4_4	DriveState = PREVENTED LiftUpState = PREVENTED	 Severe B+ Undervoltage Set: Capacitor bank voltage dropped below Severe Undervoltage limit with FET bridge enabled. Effect: Reduced Drive Torque Possible Cause: Battery menu parameters are misadjusted Non-controller system drain on battery Battery resisitance too high Battery disconnected while driving Blown B+ fuse or main contactor not closed 		
4475	POWER MODULE - BDI FAULT	None	4_4	OriveState = PREVENTED LiftUpState = PREVENTED	 Pump BDI Fault Set: BDI Percentage charge at 0% when the pump was activated. Effect: ShutdownPump Possible Cause: Battery is fully discharged BDI parameters are mis-tuned 		
4476	BATTERY VOLTAGE TOO HIGH — UNPLUG CHARGER	None	4_4	• Enter SafeMode • LiftDownState = MAX	• The Ground Module momentarily measured excessively high battery voltage (VBAT) (>32.0V) and entered SafeMode to protect system devices. This may be due to improper battery charging or incorrect voltage batteries being used.		
312176	121760 5-31						

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Table 5-11. Diagnostic Trouble Codes (DTC)

DTC	Help Message	Alarm	Flash Code	Action	Trigger
	BATTERY VOLTAGE TOO HIGH — FORC- ING DISCHARGE	None		Lift Down = PREVENTED Lift Up = PREVENTED Drive = PREVENTED	 The Ground Module momentarily measured excessively high battery voltage (VBAT) (>32.0V) and entered SafeMode. This may be due to improper battery charging or incorrect voltage batteries being used.

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SECTION 6. ACCESSORIES

Table 6-1. 4045R - Available Accessories

ACCECCODY					
ACCESSORY	ANSI	CSA	CE CE	AUS	China
DC/AC Inverter	\checkmark	\checkmark	\checkmark	< 🗸	✓
Quick Welder	\checkmark	\checkmark		\checkmark	✓
Workstation (Unpowered)	\checkmark	\checkmark	\checkmark	\checkmark	✓
Electrician's Tree	\checkmark	\checkmark	\checkmark	\checkmark	✓
Plpe Racks	\checkmark	\checkmark	\checkmark	\checkmark	✓
Panel Carrier	 Image: A second s	\checkmark	\checkmark	\checkmark	✓
Machinist's Vice	\checkmark	\checkmark	\checkmark	✓	✓
Platform Work Lights		\checkmark	\checkmark	\checkmark	✓
Platform Rail Padding	\checkmark	\checkmark	\checkmark	✓	✓
Anti-Vandalism Package 🤍 🦳	\checkmark	\checkmark	\checkmark	✓	✓
Rail Mounted Extension Deployment Handles	\checkmark	\checkmark	✓	~	✓
Footswitch	\checkmark	\checkmark	\checkmark	\checkmark	✓
Magnetic Gate Switch	1	\checkmark	\checkmark	\checkmark	\checkmark

Table 6-2.	Options/Accessori	ies Relationship Table
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ACCESSORY	REQUIRED ITEM	COMPATIBLE WITH (Note 1)	INCOMPATIBLE WITH	INTERCHANGABLE WITH (Note 2)
DC/AC Inverter	—	ALL		_
Quick Welder	Fire Extin- guisher	Inverter, Workstation, Pipe Racks, Panel Carrier, Platform Work Lights, Anti-Vandal Package, Fire Extinguisher, Machinist's Vise, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Electrician's Tree, Rail Padding	—
Workstation (Unpowered)		Inverter, Quik Welder, Electrician's Tree, Pipe Racks, Panel Carrier, Anti- Vandal Package, Fire Extinguisher, Machinist's Vise, OH Protection, Footswitch, Magnetic Gate Latch	Platform Work Lights, Rail Padding, Extension Handles, Dual Rails	_
Electrician's Tree		Inverter, Workstation, Pipe Racks, Panel Carrier, Anti-Vandal Package, Fire Extinguisher, Machinist's Vise, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Quik Welder, Platform Work Lights, Rail Padding	_
Plpe Racks		Inverter, Quik Welder, Workstation, Electrician's Tree, Panel Carrier, Anti-Vandal Package, Fire Extinguisher, Machinist's Vise, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Platform Work Lights, Rail Padding	_
Panel Carrier		Inverter, Quik Welder, Workstation, Electrician's Tree, Pipe Racks, Anti- Vandal Package, Fire Extinguisher, Machinist's Vise, Extension Han- dles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Platform Work Lights, Rail Padding	_
Machinist's Vice	_	Inverter, Quik Welder, Workstation, Electrician's Tree, Pipe Racks, Panel Carrier, Platform Work Lights, Anti-Vandal Package, Fire Extinguisher, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Rail Padding	
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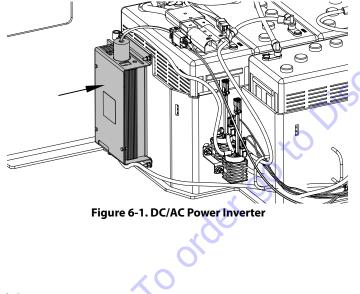
Table 6-2.	Options/Accessories Relationship Table	(Continued)

ACCESSORY	REQUIRED ITEM	COMPATIBLE WITH (Note 1)	INCOMPATIBLE WITH	INTERCHANGABLE WITH (Note 2)
Platform Work Lights	_	Inverter, Quik Welder, Anti-Vandal Package, Fire Extinguisher, Machin- ist's Vise, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Workstation, Electrician's Tree, Pipe Racks, Panel Carrier, Rail Padding	—
Platform Rail Padding	_	Inverter, Anti-Vandalism Package, Fire Extinguisher, Extension Han- dles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	Quik Welder, Workstation, Electrician's Tree, Pipe Racks, Panel Carrier, Work Lights, Machinist's Vise	_
Anti-Vandalism Package	_	Inverter, Quik Welder, Workstation, Electrician's Tree, Pipe Racks, Panel Carrier, Platform Work Lights, Rail Padding, Fire Extinguisher, Machin- ist's Vise, Extension Handles, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch		_
Rail Mounted Extension Deployment Handles	_	Quik Welder, Electrician's Tree, Pipe Racks, Panel Carrier, Platform Work Lights, Anti-Vandal Package, Rail Padding, Fire Extinguisher, Machin- ist's Vise, Inverter, OH Protection, Footswitch, Dual Rails, Magnetic Gate Latch	_	_
Footswitch		ALL		—
Magnetic Gate Switch		ALL		—
Note 1: Any accessory not li	sted under "CO	MPATIBLE WITH" is assumed to be incompatible.		
Note 2: Can be used on sam	eunitbutnots	imultaneously.		1001218523-E
3121760	$\langle \circ \rangle$			6-3

6.1 DC/AC POWER INVERTER

The DC to AC Power Inverter is used to covert DC voltage from the onboard system batteries to AC voltage for use at the platform AC output receptacle.

The inverter module is mounted on the battery compartment door, battery carrier on the left side of the machine.



DESCRIPTION	SPECIFICATION
Electrical System Voltage (DC)	24V
PowerInverter:	Power Bright
DCInput:	
DC Input Voltage:	20 to 30 VDC
Operating Temperature:	-4°F(-20°C) to 113°F(+45°C)
ACOutput:	
Output Power (Continuous):	900W
Output Power (Surge):	1800W
Output Power (AC):	7.5A
Output Voltage (AC):	117V+/-10%
Output Frequency:	60 Hz
Туре:	Modified Sine Wave
Protection:	
Out put Reverse DC Polarity:	3 X 25A Replaceable Fuse

Safety Precautions

- This inverter will only operate from a 24V power source. Do not attempt to connect the inverter to any other power source, including any AC power source.
- Danger of shock or electrocution treat inverter output the same as commercial AC power.

• Do not allow water or other liquids to contact the **6.2** inverter.

Preparation and Inspection

- Do not use appliances with damaged or wet cords.
- Route appliance cords and extension cords to prevent accidental pinching, crushing, abrading and tripping people,
- Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical device that can briefly spark when electrical connections are made or broken.

Operation

- 1. Set the inverter ON/OFF switch to the ON position at the ground control station.
- 2. Only plug in tools or appliances rated within the maximum output wattage at the platform AC receptacle mounted on the platform.

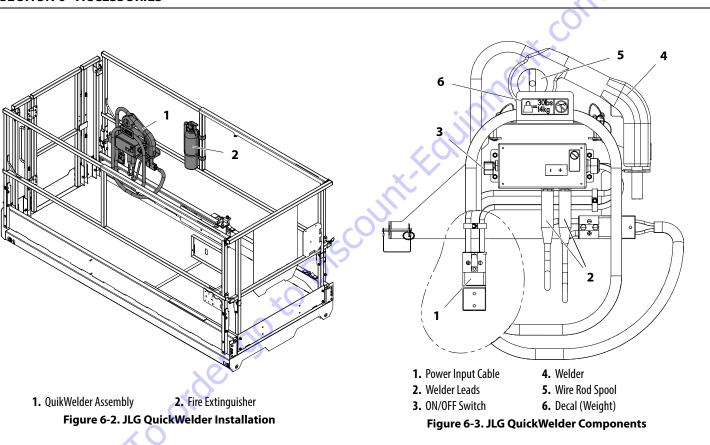
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2 QUIKWELDER™

The JLG QuikWelder[™] is a self-contained Miller wire-feed welder. It is able to weld light to heavy gauge steel with a single welder and has twice the power of a 110-volt plugin welder (200 amps of power). A gas flow control valve and built-in stitch mode are included for thin metal operations. A fire extinguisher is mounted to the platform's front post.

This accessory requires the QuikWelder[™] Ready, a cable of varying length according to model that plugs into the machine's battery and provides power to the station.

- **NOTE:** QuikWelder can be installed simultaneously with either the Panel Carrier or Pipe Racks; however, the two accessories must be mounted on opposite sides of the platform.
- **NOTE:** If the WorkStation is installed, QuikWelder must be installed on the opposite side of the platform.



A WARNING

THIS ACCESSORY AFFECTS THE OVERALL PLATFORM CAPACITY. REFER TO THE CAPACITY DECAL AND ADJUST ACCORDINGLY.

- Ensure correct polarity of leads.
- Wear proper welding apparel.
- Use correct rod size and current settings.
- Do not use electrical cords without ground.
- Do not use electrical tools in water.
- Do not weld to platform.
- Do not ground through the platform.

Preparation and Inspection

- Ensure all components are secured to the platform.
- Check for any missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.
- Replace any missing or illegible decals.
- Ensure the fire extinguisher is fully charged, operational, and installed nearby on the platform rail.

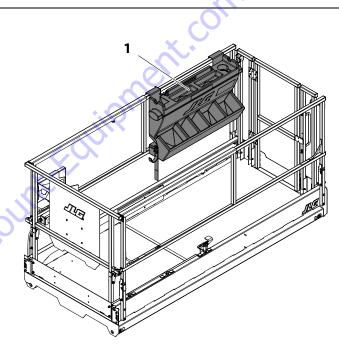
• Ensure the power cable is connected to the battery and routed through the arm-stack with the platform cable.

- 1. Clamp the ground wire onto the material to be welded.
- 2. Ensure the leads are plugged into the QuikWelder™ box.
- **3.** Remove the welder from the stowed position.
- 4. Turn on the master switch.
- **5.** Position the welder to material to be welded. Squeeze the trigger to feed the wire to the material.
- **6.** Adjust speed of wire feed with the speed selector knob located on the gun.
- 7. Turn off the master switch and return to the stowed position when not in use.

6.3 WORKSTATION

The WorkStation offers additional space for storage of tools and objects as well as an adjustable work surface.

order got



1. Workstation Assembly Figure 6-4. Workstation Installation

NOTE: The WorkStation can be attached anywhere in the platform unless the machine is equipped with another acces-

sory, at which point the WorkStation must be attached on the opposite side.

Safety Precautions

WARNING

THIS ACCESSORY WILL AFFECT THE PLATFORM CAPACITY. REFER TO THE CAPACITY DECAL AND ADJUST ACCORDINGLY.

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

order got

Preparation and Inspection

- Ensure the WorkStation is secured to the platform.
- Check for any missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.
- Replace any missing or illegible decals.

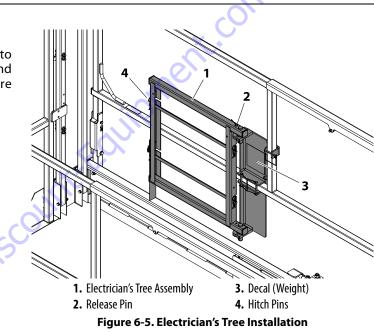
Operation

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

6.4 ELECTRICIAN'S TREE

The Electrician's Tree provides a stable rack on which to hang spools of wire. Its design is ideal for pulling wire and reducing friction associated with ground-based wire spools.

· o order of



NOTE: The Electrician's Tree may be simultaneously installed with Panel Carrier, Pipe Racks, QuikWelder, or WorkStation as long as it in mounted on the opposite side of the platform.

A WARNING

THIS ACCESSORY AFFECTS THE OVERALL PLATFORM CAPACITY. REFER TO THE CAPACITY DECAL ON THE ACCESSORY AND ADJUST ACCORDINGLY.

- Ensure no personnel are beneath the platform.
- Do not exit the platform over the rails, or stand on the rails.
- Do not pull wire by driving the machine.
- Only pull wire along the long axis of the machine with the rack in the working position.
- Ensure wire spools rotate freely.
- Return to the stowed position when not in use.

Preparation and Inspection

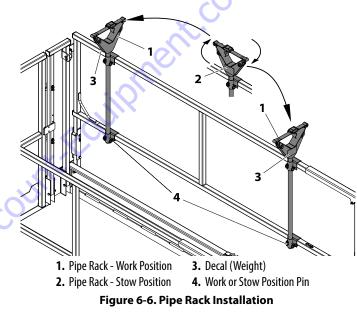
- Ensure the rack is secured to the platform.
- Check for missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.
- Replace any missing or illegible decals.
- Ensure release pins are intact and function properly.

- **1.** Remove release pins and rotate the rack from the stowed position.
- 2. Pull the hitch pin for the spool rod to be loaded.
- **3.** Load the spools onto the rod and replace the hitch pin.
- **4.** Swing the rack into working position and lock into place by replacing the release pin.
- 5. When not in use, remove spools and return the rack to the stowed position.

6.5 PIPE RACKS

The Pipe Racks provide a way to store pipe or conduit inside the platform in order to prevent rail damage and optimize platform utility when transporting material to an elevated site. It consists of two racks, attached to the platform handrails, with adjustable straps that secure the load in place.

order



NOTE: Panel Carrier and Pipe Racks cannot be installed simultaneously if WorkStation is installed, although they are interchangeable.

A WARNING

MULTIPLE MATERIAL-HANDLING ACCESSORIES CAN 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. DO NOT OVERLOAD THE PIPE RACKS.

- Ensure no personnel are beneath the platform.
- Do not exit the platform over the rails, or stand on the rails.
- · Do not drive the machine without material secured.
- Return the racks to the stowed position when not in use.

Preparation and Inspection

- Ensure all components are secured to the platform.
- Check for any missing or damaged components. Replace if necessary.

- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.
- Replace missing or illegible decals.
- Replace any torn or frayed straps.

- 1. To prepare racks for loading, remove work/stow locking pins, rotate each rack 90 degrees from stowed to working position, and secure with the locking pins.
- 2. Place material onto racks with weight evenly distributed between both racks. Do not exceed the rated capacity stated on the decal.
- **3.** Route the tie-down straps at each end across loaded material and tighten.
- **4.** To remove material, loosen and remove tie-down straps, then carefully remove material from racks.
- **NOTE:** Reinstall tie-down straps across any remaining material before continuing machine operations.
 - 5. When not in use, remove locking pins, rotate racks 90 degrees to the stowed position, and reinstall locking pins.

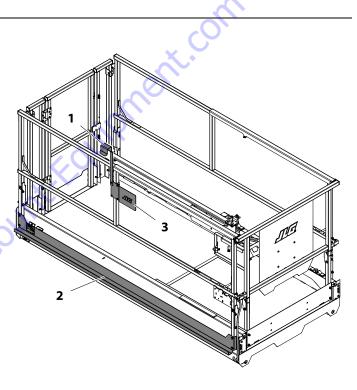
6.6 PANEL CARRIER

The Panel Carrier can transport flat sheets or panels to an elevated site by positioning them in a channel on the outside of the platform. It consists of a carrier tray that runs parallel to the length of the platform and an adjustable bracket mounted to the handrail to hold material in place.

The panels can measure up to 4ft x 8ft (1.22 m x 2.4 m), or approximately 32ft sq. (3m sq.).

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NOTE: Panel Carrier and Pipe Racks cannot be installed simultaneously if WorkStation is installed, although they are interchangeable.



1. Adjustable Bracket

3. Capacity Decal (On Back)

2. Carrier Tray

Figure 6-7. Panel Carrier Installation

A WARNING

MULTIPLE MATERIAL-HANDLING ACCESSORIES CAN BE INSTALLED BUT ONLY ONE MAY BE LOADED AT A TIME UNLESS APPROVED BY JLG INDUSTRIES, INC.

THIS ACCESSORY AFFECTS THE OVERALL PLATFORM CAPACITY. REFER TO THE CAPACITY DECAL AND ADJUST ACCORDINGLY.

WHEN THE CARRIER TRAY IS LOADED, THE INCREASE OF AREA EXPOSED TO WIND WILL DECREASE STABILITY. REFER TO THE DECAL FOR MAXIMUM PANEL SIZE AND WIND SPEED.

- · Ensure no personnel are beneath the platform.
- Do not exit the platform over the rails, or stand on the rails.
- Remove the tray when not in use.

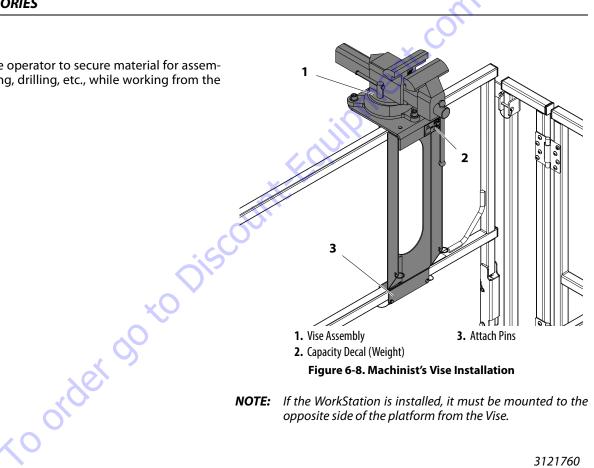
Preparation and Inspection

- Ensure all components are secured to the platform.
- Check for any missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.
- Replace any missing or illegible decals.
- Replace any torn or frayed straps.

- 1. Attach the carrier tray to the outside of the platform.
- **2.** Load the Panel Carrier with material and secure with the adjustable bracket.
- **3.** Position the panel to its desired location.
- **4.** Remove the carrier tray when finished.

VISE 6.7

The Vise allows the operator to secure material for assembling, disassembling, drilling, etc., while working from the platform.



NOTE: If the WorkStation is installed, it must be mounted to the opposite side of the platform from the Vise.

WARNING

THIS ACCESSORY AFFECTS THE OVERALL CAPACITY OF THE PLATFORM. REFER TO THE CAPACITY DECAL AND ADJUST ACCORDINGLY.

• Do not drive machine with material in the Vise.

Preparation and Inspection

- Ensure the Vise is secured to the platform.
- Check for any missing or damaged components. Replace if necessary.
- Check for loose nuts and bolts. If necessary, torque according to the Torque Chart specifications in Section 1 of the Service Manual.

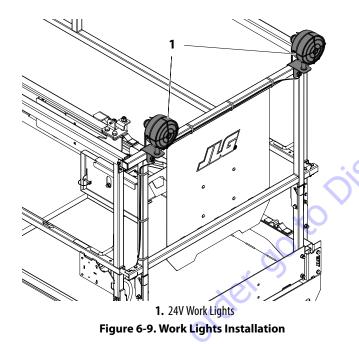
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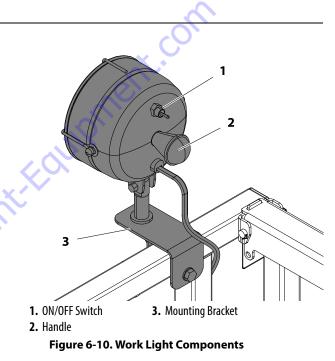
- Replace any missing or illegible decals.
- Remove when not in use.

- 1. Load material into the Vise.
- 2. Tighten the handle until secure.
- **3.** Begin working.

6.8 PLATFORM WORK LIGHTS

The Platform Work Lights accessory consists of two 24V lights that mount to the platform railings.



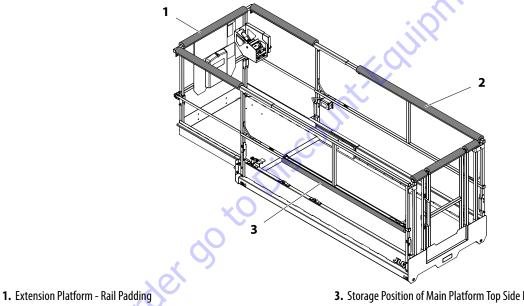


Operation

Flip the On/Off switch to operate. Use the handle on the back to direct the light in the desired direction.

6.9 PLATFORM RAIL PADDING

The Platform Rail Padding provides bumpers to the platform rails in order to prevent damage to the platform itself as well as objects it may come in contact with during operation.



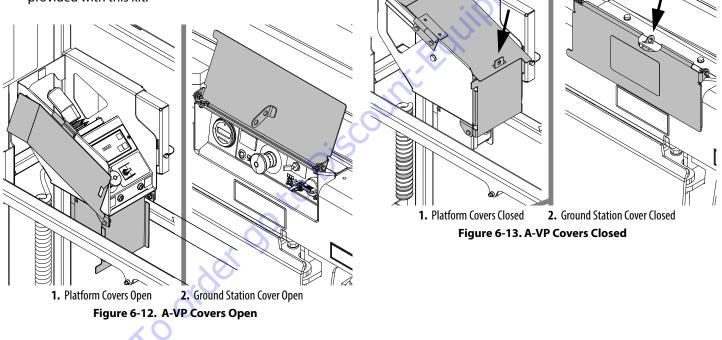
2. Main Platform Top Side Rail Padding when Extension Platform is Extended.

3. Storage Position of Main Platform Top Side Rail Padding When Platform Extension Is Retracted.



6.10 ANTI-VANDALISM PACKAGE

The Anti-Vandalism Package consists of two lockable covers for the Platform and Ground Control Stations that prevent unauthorized use of the machine. Locks are not provided with this kit.



6.11 RAIL MOUNTED PLATFORM EXTENSION HANDLES

The platform extension handles accessory are mounted to the top rails of the extension platform at the roller tabs. When rotated up 90° the handles provide the operator an optional grip to push the extension platform out from it's stowed position.

Operation

- 1. Swing both extension handles up 90° to the extend position.
- **2.** While standing on the main platform, release the extension platform lock mechanism with one foot.
- **3.** Grasp both handles and push platform extension out until locked in either of the two other locked extension positions.

order

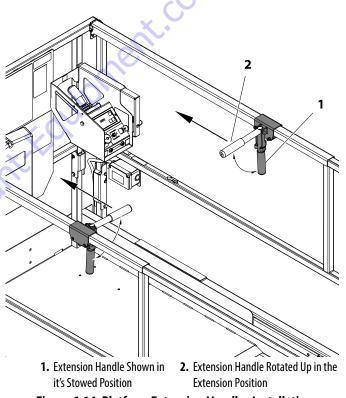


Figure 6-14. Platform Extension Handles Installation

6.12 FOOTSWITCH

The footswitch accessory when installed in the platform acts as another enable switch in the function control circuit.

Operation

The footswitch must be depressed in sequence with the platform control trigger switch to enable operation of machine functions when using the platform controls.

To operate a function depress controls in the following sequence.

order

- 1. Footswitch
- 2. Joystick Trigger
- 3. Operate Function

1. Footswitch Assembly

Figure 6-15. Footswitch Installation

6.13 MAGNETIC GATE LATCH

The platform magnetic gate latch accessory if installed helps ensure the platform gate is securely latched when closed.

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Operation

Grasp handle and swing gate open.

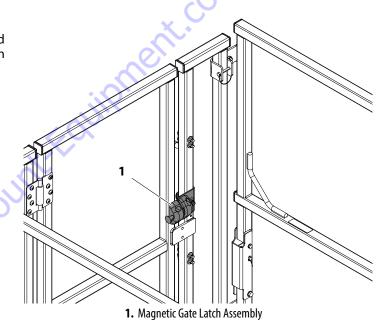


Figure 6-16. Magnetic Gate Latch Installation

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SECTION 7 - INSPECTION AND REPAIR LOG

SECTION 7. INSPECTION AND REPAIR LOG

Machine Serial Number

Table 7-1. Inspection and Repair Log

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SECTION 7 - INSPECTION AND REPAIR LOG

Table 7-1. Inspection and Repair Log

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