

Operation and Safety Manual

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

Model 800AJ PVC 2001



31215045 August 21, 2020 - Rev C

WARNING

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

FOREWORD

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

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

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

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

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

SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS



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



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 POTENTIONALLY 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.

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

NOTICE

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

A WARNING

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

NOTICE

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

NOTICE

JLG INDUSTRIES, INC. MUST BE NOTIFIED IMMEDIATELY IN ALL INSTANCES WHERE JLG PRODUCTS HAVE BEEN INVOLVED IN AN ACCIDENT INVOLVING BODILY INJURY OR DEATH OR WHEN SUBSTANTIAL DAMAGE HAS OCCURRED TO PERSONAL PROP-ERTY 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 inside of manual cover)

In USA:

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

Outside USA:

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

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

REVISION LOG

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SECTION 1. SAFETY PRECAUTIONS

1.1 GENERAL

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

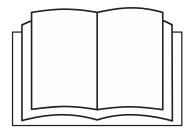
This section contains the responsibilities of the owner, user, operator, lessor, and lessee concerning safety, training, inspection, maintenance, application, and operation. If there are any questions with regard to safety, training, inspection, maintenance, application, and operation, please contact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

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

1.2 PRE-OPERATION

Operator Training and Knowledge

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



SECTION 1 - SAFETY PRECAUTIONS

- Only personnel who have received proper training regarding the inspection, application and operation of MEWPs (including recognition and avoiding hazards associated with their operation) shall be authorized to operate a MEWP.
- Only properly trained personnel who have received unit-specific familiarization shall operate a MEWP. The user shall determine if personnel are qualified to operate the MEWP prior to operation.
- Read, understand, and obey all DANGERS, WARNINGS, 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 have a thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground and emergency descent controls.
- Read, understand, and obey all applicable employer, local, and governmental regulations as they pertain to your utilization and application of the machine.

Workplace Inspection

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

Machine Inspection

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

WARNING

MODIFICATION OR ALTERATION OF A MEWP SHALL BE MADE ONLY WITH PRIOR WRIT-TEN 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.
- When driving, always position boom over rear axle in line with the direction of travel. Remember, if boom is over the front axle, steer and drive functions will be reversed.
- Do not assist a stuck or disabled machine by pushing or pulling except by pulling at the chassis tie-down lugs.
- Fully lower platform and shut off all power before leaving machine.
- Remove all rings, watches, and jewelry when operating machine. Do not wear loose fitting clothing or long hair unrestrained which may become caught or entangled in equipment.
- Persons under the influence of drugs or alcohol or who are subject to seizures, dizziness or loss of physical control must not operate this machine.

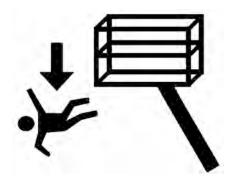
 Hydraulic cylinders are subject to thermal expansion and contraction. This may result in changes to the platform position while the machine is stationary. Factors affecting thermal movement can include the length of time the machine will remain stationary, hydraulic oil temperature, ambient air temperature, and platform position.

Trip and Fall Hazards

- Prior to operation, ensure all gates are closed and fastened in their proper position.
- During operation, occupants in the platform must wear a full body harness with a lanyard attached to an authorized lanyard anchorage point. Attach only one (1) lanyard per lanyard anchorage point.



• Enter and exit only through gate area. Use extreme caution when entering or leaving platform. Ensure the platform assembly is fully lowered. Face the platform when entering or leaving the platform. Always maintain three points of contact with the machine, using two hands and one foot or two feet and one hand at all times during entry and exit.



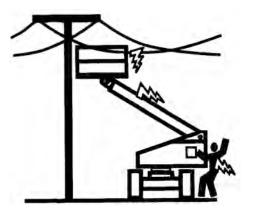
- Keep both feet firmly positioned on the platform floor at all times. Never position ladders, boxes, steps, planks, or similar items on unit to provide additional reach for any purpose.
- Keep oil, mud, and slippery substances cleaned from footwear and the platform floor.

Electrocution Hazards

• This machine is not insulated and does not provide protection from contact or proximity to electrical current.



• It is not recommended to use the machine during lightning. To prevent injury or machine damage if lightning occurs during operation, lower the boom and shut down the machine in a safe and secure location.



- Maintain distance from electrical lines, apparatus, or any energized (exposed or insulated) parts according to the Minimum Approach Distance (MAD) as shown in Table 1-1.
- Allow for machine movement and electrical line swaying.

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

• 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.

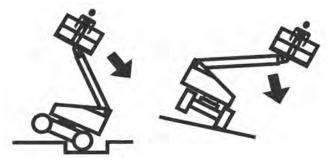
• The minimum approach distance may be reduced if insulating barriers are installed to prevent contact, and the barriers are rated for the voltage of the line being guarded. These barriers shall not be part of (or attached to) the machine. The minimum approach distance shall be reduced to a distance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

A DANGER

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

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 push or pull any object with the boom.
- Never attempt to use the machine as a crane. Do not tie-off machine to any adjacent structure. Never attach wire, cable, or any similar items to platform.
- Do not operate the machine when wind conditions, including gusts, may exceed specifications shown in Section 7-2 of this manual or as shown on the capacity placard of the platform billboard. Factors affecting wind speed are; platform elevation, surrounding structures, local weather events, and approaching storms.

- Wind speed can be significantly greater at height than at ground level.
- Wind speed can change rapidly. Always consider approaching weather events, the time required to lower the platform, and methods to monitor current and potential wind conditions.
- Do not cover or increase surface area of the platform or the load. Do not carry large surface area items in the platform when operating outdoors. The addition of such items increases the exposed wind area of the machine. Increased areas exposed to wind will decrease stability.
- Do not increase the platform size with unauthorized modifications or attachments.

A WARNING

DO NOT OPERATE THE MACHINE WHEN WIND CONDITIONS EXCEED SPECIFICATIONS SHOWN IN SECTION 7-2 OF THIS MANUAL OR AS SHOWN ON THE CAPACITY PLACARD ON THE PLATFORM BILLBOARD.

Beaufort	Beaufort Wind Speed		Description	Land Conditions	
Number	mph	m/s	Description		
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.	
6	25-31	10.8-13.8	Strongbreeze	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	StrongGale	Light structure damage.	

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

SECTION 1 - SAFETY PRECAUTIONS

Crushing and Collision Hazards

- Approved head gear must be worn by all operating and ground personnel.
- Watch for obstructions around machine and overhead when driving. Check clearances above, on sides, and bottom of platform during all operations.



- During operation, keep all body parts inside platform railing.
- Use the boom functions, not the drive function, to position the platform close to obstacles.
- Always post a lookout when driving in areas where vision is obstructed.

- Keep non-operating personnel at least 6 ft. (1.8m) 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, reduce drive speed before stopping. Travel grades in low speed only.
- Do not use high speed drive in restricted or close quarters or when driving in reverse.
- Exercise extreme caution at all times to prevent obstacles from striking or interfering with operating controls and persons in the platform.
- Ensure that operators of other overhead and floor level machines are aware of the MEWP's presence. Disconnect power to overhead cranes.
- Do not operate over ground personnel. Warn personnel not to work, stand, or walk under a raised boom or platform. Position barricades on floor if necessary.

1.4 TOWING, LIFTING, AND HAULING

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

1.5 MAINTENANCE

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

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.
- Do not use machine as a ground for welding.
- When performing welding or metal cutting operations, precautions must be taken to protect the chassis from direct exposure to weld and metal cutting spatter.
- Do not refuel the machine with the engine running.
- Use only approved non-flammable cleaning solvents.
- Do not replace items critical to stability, such as batteries or solid tires, with items of different weight or specification. Do not modify the MEWP in any way to affect stability.
- Refer to the Service and Maintenance Manual for the weights of critical stability items.



MODIFICATION OR ALTERATION OF A MEWP SHALL BE MADE ONLY WITH PRIOR WRIT-TEN 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

Operator training must cover:

- 1. Reading and understanding the Operation and Safety Manual.
- **2.** Thorough understanding of the intended purpose and function of the MEWP controls, including platform, ground, and emergency descent controls.
- 3. Control labels, instructions, and warnings on the machine.
- 4. Applicable regulations, standards, and safety rules.
- 5. Use of approved fall protection equipment.
- **6.** Enough knowledge of the mechanical operation of the machine to recognize a malfunction or potential malfunction.

- **7.** The safest means to operate the machine where overhead obstructions, other moving equipment, and obstacles, depressions, holes, and drop-offs exist.
- **8.** Means to avoid the hazards of unprotected electrical conductors.
- **9.** Selection of the appropriate MEWP and available options for the work to be performed considering specific job requirements, with involvement from the MEWP owner, user, and/ or supervisor.
- **10.** The responsibility of the operator to ensure all platform occupants have a basic level of knowledge to work safely on the MEWP, and to inform them of applicable regulations, standards, and safety rules.
- 11. The requirement for familiarization in addition to training.

Training Supervision

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

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

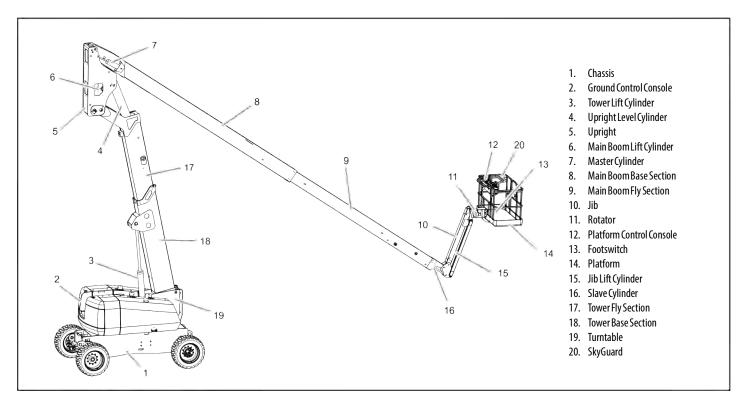
The following table covers machine inspections and maintenance required by JLG Industries, Inc. Consult local regulations for further requirements for MEWPs. Frequency of inspections and maintenance must be increased as necessary when machine is used in a harsh or hostile environment, if machine is used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

Туре	Frequency	FrequencyPrimaryServiceResponsibilityQualification		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)	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 (See Note)	In service for 3 months or 150 hours, whichever comes first; or Out of service for a period of more than 3 months; or Purchased used.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form	
Annual Machine Inspection (See Note)	Annually, no later than 13 months from the date of prior inspection.	Owner, Dealer, or User	Factory Trained Service Technician (Recommended)	Service and Maintenance Manual and applicable JLG inspection form	
Preventative Maintenance	At intervals as specified in the Service and Maintenance Manual.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual	
NOTE: Inspection form	ns are available from JLG. Use the Service and Mo	aintenance Manual to p	perform inspections.		
	NO	TICE			

Table 2-1. Inspection and Maintenance Table

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.

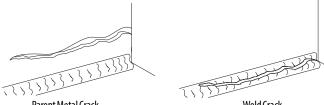
2.3 BASIC NOMENCLATURE



Pre-Start Inspection

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

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



Parent Metal Crack

Weld Crack

- 3. Decals and Placards Check all for cleanliness and legibility. Make sure none of the decals and placards are missing. Make sure all illegible decals and placards are cleaned or replaced.
- 4. Operators and Safety Manuals Make sure a copy of the Operation and Safety Manual, AEM Safety Manual (ANSI markets only), and ANSI Manual of Responsibilities (ANSI markets only) is enclosed in the weather resistant storage container.

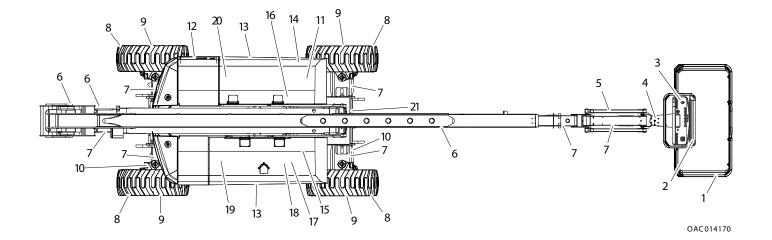
- 5. Walk-Around Inspection Perform as instructed.
- 6. Battery Charge as required.
- 7. Fuel (Combustion Engine Powered Machines) Add the proper fuel as necessary.
- 8. Engine Oil Supply Ensure the engine oil level is at the Full mark on the dipstick and the filler cap is secure.
- **9.** Hydraulic Oil Check the hydraulic oil level. Ensure hydraulic oil is added as required.
- **10.** Accessories/Attachments Refer to the Accessories section in this manual or the accessory installed upon the machine for specific inspection, operation, and maintenance instructions.
- **11. Function Check** Once the Walk-Around Inspection is complete, perform a functional check of all systems in accordance with Section 2.3 in an area free of overhead and ground level obstructions. Refer to Sections 3 and 4 for more specific machine operating instructions.
- 12. Platform Gate Keep gate and surrounding area clean and unobstructed. Verify the gate closes properly and is not bent or damaged. Keep gate closed at all times except when entering/exiting the platform and loading/unloading materials.

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

A WARNING

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

2.4 WALK-AROUND INSPECTION DIAGRAM



General

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

WARNING

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

NOTICE

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

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

- 1. Platform Assembly and Gate Footswitch works properly, not modified, disabled or blocked. Gate latches and hinges in working condition.
- 2. SkyGuard See Inspection Note.

- **3. Platform Control Console** Switches and levers return to neutral when activated and released, decals/placards secure and legible, control markings legible.
- 4. Platform Rotator See Inspection Note
- 5. Jib Assembly and Jib Rotator See Inspection Note.
- 6. Boom Sections/Uprights/Turntable See Inspection Note.
- 7. All Hydraulic Cylinders No visible damage; pivot pins and hydraulic hoses undamaged, not leaking.
- 8. Wheel/Tire Assemblies Properly secured, no missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies. Inspect wheels for damage and corrosion.
- 9. Drive Motor, Brake, and Hub No evidence of leakage.
- 10. Tie Rod Ends and Steering Spindles See Inspection Note.
- 11. Counterweight See Inspection Note.

- 11. Main Control Valve See Inspection Note.
- **12. Ground Control Console** Switches and levers return to neutral when activated and released, decals/placards secure and legible, control markings legible.
- 13. Hood Assemblies See Inspection Note.
- 14. Auxiliary Hydraulic Pump See Inspection Note.
- 15. Swing Motor and Brake No evidence of damage.
- **16. Turntable Bearing** Evidence of proper lubrication. No evidence of loose bolts or looseness between bearing and machine.
- 17. Hydraulic Pump and Reservoir See Inspection Note.
- **18. Battery** Batteries have proper electrolyte level; cables tight; see Inspection Note.
- **19.** Air Shutoff Valve (ASOV) (If Equipped) See Inspection Note.
- 20. Fuel Tank See Inspection Note.
- 21. Frame See Inspection Note.

2.5 FUNCTION CHECK

A WARNING

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

WARNING

TO AVOID A COLLISION AND INJURY IF PLATFORM DOES NOT STOP WHEN A CONTROL SWITCH OR LEVER IS RELEASED, REMOVE FOOT FROM FOOTSWITCH OR USE EMER-GENCY STOP TO STOP MACHINE.

Perform the Function Check as follows:

- **1.** From the ground control console with no load in the platform:
 - **a.** Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
 - **b.** Ensure all functions stop when the function switch is released.
 - c. Operate all functions and ensure proper operation;
 - **d.** Ensure proper operation of the manual descent controls, as described in Section 5.5 of this manual.

- 2. Test the tower boom assembly sequencing as follows:
 - a. Place machine on level ground with the tower boom assembly in the stowed position. Identify the tower boom vertical limit switch adjacent to the tower lift cylinder at the bottom end (rear) of the tower base boom. Open the left side hood and perform a visual check that the plunger on the tower boom vertical limit switch is fully extended. The plunger is shown fully extended in Figure 2-1.

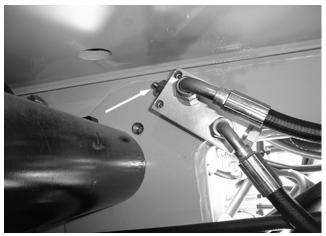


Figure 2-1. Tower Boom Vertical Limit Switch



DISCONTINUE OPERATION IF PLUNGER IS NOT FULLY EXTENDED

b. Attempt to extend the tower fly boom. The tower fly boom should not extend and the red boom malfunction light in the ground control panel should illuminate when pressing the tower telescope switch.



DISCONTINUE OPERATION IF THE TOWER FLY BOOM EXTENDS OR THE BOOM MAL-FUNCTION LIGHT DOES NOT ILLUMINATE.

c. Raise the tower base boom to approximately 40 degrees, then lower the tower boom back to the below horizontal position. While raising and lowering the tower boom assembly, observe the position of the upright. Ensure that the upright remains vertical relative to the chassis. Refer to Figure 2-3. and Figure 2-4.

A WARNING

DISCONTINUE OPERATION IF THE UPRIGHT IS OUT OF ALIGNMENT OR THE BOOM MALFUNCTION LIGHT IS FLASHING OR ON STEADY.

d. Raise the tower base boom to full height. Extend the tower fly boom a few feet. Check that the plunger on

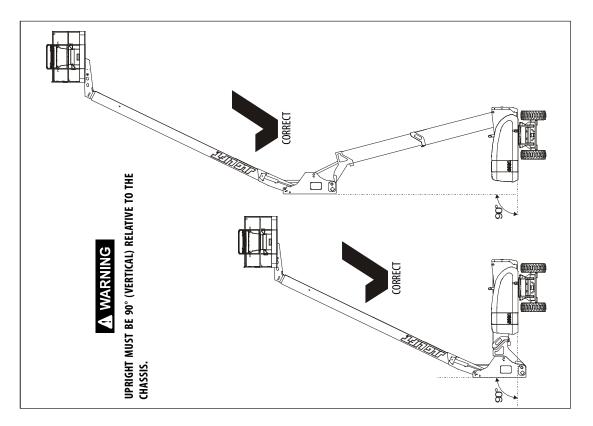
the tower boom horizontal limit switch at the end of the tower base boom section is fully extended. The plunger is shown fully extended in Figure 2-2.



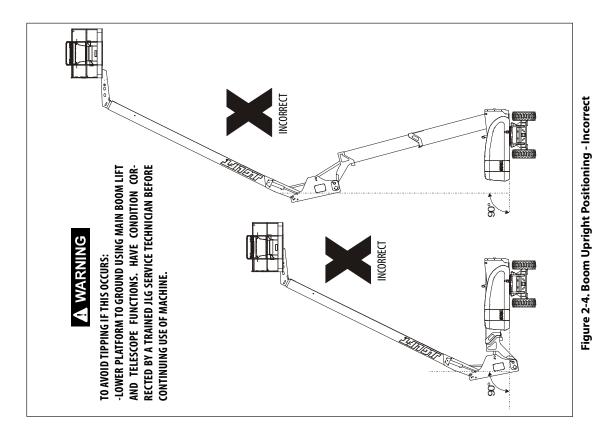
Figure 2-2. Tower Boom Horizontal Limit Switch



DISCONTINUE OPERATION IF PLUNGER IS NOT FULLY EXTENDED







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e. Attempt to lower the tower base boom while the tower fly boom is extended. The tower base boom should not lower and the red boom malfunction light should illuminate when pressing the tower down switch.

A WARNING

DISCONTINUE OPERATION IF THE TOWER BASE BOOM LOWERS OR THE BOOM MAL-FUNCTION LIGHT DOES NOT ILLUMINATE.

- 3. From the platform control console:
 - **a.** Ensure that the control console is firmly secured in the proper location
 - **b.** Check that all guards protecting the switches or locks are in place.
 - **c.** Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
 - **d.** Ensure that all machine functions stop when the footswitch is released.
 - e. Operate all functions and ensure proper operation.
- **4.** With the platform in the stowed position:
 - **a.** Drive the machine on a grade, not to exceed the rated gradeability, and stop to ensure the brakes hold;
 - **b.** Check that the tilt indicator is illuminated to ensure proper operation.

- 5. Swing the boom over either of the rear tires and ensure that the Drive Orientation indicator illuminates and that the Drive Orientation Override switch must be used for the drive function to operate.
- **6.** With the machine positioned on a smooth, firm surface within the limits of the maximum operating slope, elevate the boom above 4 degrees of horizontal; Select high speed drive mode. Carefully attempt to drive and ensure the drive speed is reduced.

SkyGuard® Function Test

NOTE: Refer to Section 4.10 for additional information on SkyGuard operation.

From the Platform Console in an area free from obstructions:

- **1.** Operate the telescope out function.
- **2.** Activate the SkyGuard sensor:
 - **a. SkyGuard** Apply approximately 50 lb (222 Nm) of force to yellow bar.
 - **b.** SkyGuard SkyLine[™] Press cable to break magnetic connection between the cable and right bracket.
 - c. SkyGuard SkyEye[™] Put arm or hand in path of sensor beam.

- **3.** Once the sensor has been activated, verify the following conditions:
 - **a.** Telescope out function stops and telescope in function operates for a short duration.
 - b. The horn sounds.
 - If equipped with SkyGuard beacon, the beacon illuminates.
- **NOTE:** If SkyGuard is enabled with the Soft Touch system, functions will cut out instead of reversing.
 - **4.** Disengage the SkyGuard sensor, release controls, then recycle the footswitch. Ensure normal operation is available.
- **NOTE:** On machines equipped with SkyLine, reattach magnetic end of the cable to the bracket.

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

2.6 OSCILLATING AXLE LOCKOUT TEST (IF EQUIPPED)

NOTICE

LOCKOUT SYSTEM TEST MUST BE PERFORMED QUARTERLY, ANY TIME A SYSTEM COM-PONENT IS REPLACED, OR WHEN IMPROPER SYSTEM OPERATION IS SUSPECTED.

- **NOTE:** Ensure boom is fully retracted, lowered, and centered between drive wheels prior to beginning lockout cylinder test.
 - 1. Place a 6 inch (15.2 cm) high block with ascension ramp in front of left front wheel.
 - 2. From platform control station, start engine.
 - 3. Position Drive Speed/Torque Select switch to Slow.
 - **4.** Place Drive control lever to Forward position and carefully drive machine up ascension ramp until left front wheel is on top of block.
 - **5.** Carefully activate Swing control lever and position boom over Right side of machine.
 - **6.** With boom over right side of machine, place Drive control lever to Reverse and drive machine off of block and ramp.
 - **7.** Have an assistant check to see that left front or right rear wheel remains elevated in position off of ground.

- 8. Carefully activate Swing control lever and return boom to stowed position (centered between drive wheels). When boom reaches center, stowed position, lockout cylinders should release and allow wheel to rest on ground, it may be necessary to activate Drive to release cylinders.
- **9.** Place the 6 inch (15.2 cm) high block with ascension ramp in front of right front wheel.
- **10.** Place Drive control lever to Forward and carefully drive machine up ascension ramp until right front wheel is on top of block.
- **11.** Carefully activate SWING control lever and position boom over left side of machine.
- **12.** With boom over left side of machine, place DRIVE control lever to REVERSE and drive machine off of block and ramp.
- **13.** Have an assistant check to see that right front or left rear wheel remains elevated in position off of ground.
- 14. Carefully activate SWING control lever and return boom to stowed position (centered between drive wheels). When boom reaches center, stowed position, lockout cylinders should release and allow wheel to rest on ground, it may be necessary to activate DRIVE to release cylinders.
- **15.** If lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

SECTION 3. MACHINE CONTROLS AND INDICATORS

3.1 GENERAL



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

This section provides the necessary information needed to understand control functions.

3.2 CONTROLS AND INDICATORS

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



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

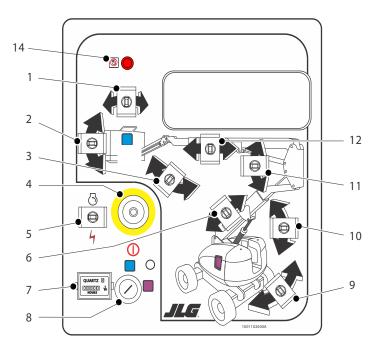


Indicates an abnormal operating condition, which if not corrected, may result in machine interruption or damage. This indicator will be yellow.

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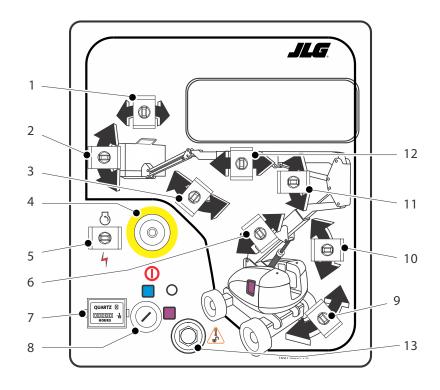
Indicates important information regarding the operating condition, i.e. procedures essential for safe operation. This indicator will be green with the exception of the capacity indicator which will be yellow.

3.3 GROUND CONTROL STATION 800AJ WITHOUT MSSO



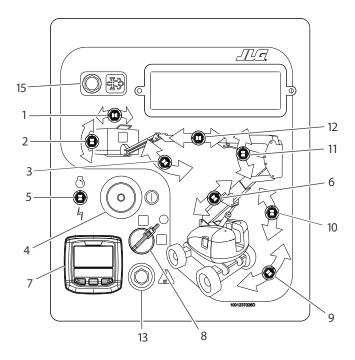
- 1. Platform Rotate
- 2. Platform Leveling Override
- 3. Jib
- 4. Power/EmergencyStop
- 5. Engine Start/Auxiliary Power Switch
- 6. TowerTelescope
- 7. Hourmeter
- 8. Platform/Ground Select
- 9. Swing
- 10. Tower Lift
- 11. Main Boom Lift
- 12. Main Boom Telescope
- 13. Not used
- 14. Air Shutoff Valve (ASOV) (If Equipped)

800AJ with MSSO



- 1. Platform Rotate
- 2. Platform Leveling Override
- 3. Jib
- 4. Power/Emergency Stop
- 5. Engine Start/Auxiliary Power Switch
- 6. Tower Telescope
- 7. Hourmeter
- 8. Platform/Ground Select
- 9. Swing
- 10. Tower Lift
- 11. Main Boom Lift
- 12. Main Boom Telescope
- 13. Machine Safety System Override (MSSO)

800AJ with MSSO and DPF



- 1. Platform Rotate
- 2. Platform Leveling Override
- 3. Jib
- 4. Power/Emergency Stop
- 5. Engine Start/Auxiliary Power Switch
- 6. Tower Telescope
- 7. Hourmeter
- 8. Platform/Ground Select
- 9. Swing
- 10. Tower Lift
- 11. Main Boom Lift
- 12. Main Boom Telescope
- 13. Machine Safety System Override (MSSO)
- 14. Not Used
- 15. Diesel Particulate Filter (DPF)

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

WARNING

ONLY USE THE PLATFORM LEVELING OVERRIDE FUNCTION FOR SLIGHT LEVELING OF THE PLATFORM. INCORRECT USE COULD CAUSE THE LOAD/OCCUPANT TO SHIFT OR

FALL. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

NOTE: When machine is shut down the Platform/ Ground Select switch and Emergency Stop must be positioned to OFF.



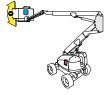
Platform Rotate 1.

Provides rotation of the platform.



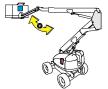
Platform Leveling Override 2.

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



3. Jib

> Provides raising and lowering of the jib.



- NOTE: When Power/Emergency Stop switch is in the "On" position and engine is not running, an alarm will sound, indicating Ignition is "On".
 - Power/Emergency Stop Switch

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



NOTICE

ALWAYS POSITION EMERGENC Y STOP SWITCH TO THE 'OFF' POSITION (PUSHED IN) WHEN MACHINE IS NOT IN USE.

- **NOTE:** On machines with diesel engines, when Glow Plug Indicator is lighted (Yellow), wait until light goes out before cranking engine.
 - 5. Engine Start/ Auxiliary Power Switch



To start the engine, the switch must be held "Up" until the engine starts.

To use auxiliary power, the switch must be held "Down" for duration of auxiliary pump use.



WHEN OPERATING ON AUXILIARY POWER, DO NOT OPERATE MORE THAN ONE FUNC-TION AT A TIME. (SIMULTANEOUS OPERATION CAN OVERLOAD THE AUXILIARY PUMP MOTOR.)

6. Tower Boom Telescope

This switch provides extending and retracting of the tower boom. This function works only when the tower boom is fully elevated (lift up).



WARNING

TO AVOID UPSET AND SERIOUS INJURY, DO NOT OPERATE MACHINE IF TOWER LIFT AND TELESCOPE FUNCTIONS DO NOT OPERATE IN THE ABOVE SEQUENCE.

7. Hourmeter

Registers the amount of time the machine has been in use, with engine running. By connecting into the oil



pressure circuit of the engine, only engine run hours are recorded. The hourmeter registers up to 9,999.9 hours and cannot be reset.

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



8. Platform/Ground Select Switch

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

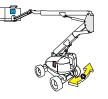
NOTE: When the Platform/Ground Select Switch is in the center position, power is shut off to the controls at both operating stations. Remove the key to prevent the controls from being actuated.

WARNING

WHEN OPERATING THE BOOM ENSURE THERE ARE NO PERSONNEL AROUND OR UNDER PLATFORM.

9. Swing Control

Provides 360 degrees continuous turntable rotation.



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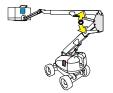
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10. Tower Boom Lift

This switch provides raising and lowering of the tower boom. This function works only when the tower boom is fully retracted.

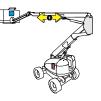
11. Main Boom Lift Control

Provides raising and lowering of the main boom.



12. Main Boom Telescope Control

Provides extension and retraction of the main boom.



SECTION 3 - MACHINE CONTROLS AND INDICATORS

13. Machine Safety System Override (MSSO) (If Equipped)



Provides emergency override of function controls that are locked out in the event of Load Sense System activation.

14. Air Shutoff Valve (ASOV) (If Equipped)

The red LED ASOV light indicate when the valve has been actuated.

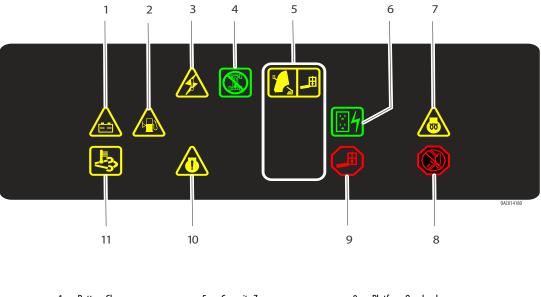
15. Diesel Particulate Filter (DPF) (If Equipped)

This button initiates the standstill exhaust system cleaning.





3.4 GROUND CONTROL INDICATOR PANEL



- 1. Battery Charge
- 2. Low Fuel (Ford DF 2.5L Only)
- 3. System Distress
- 4. Drive and Steer Disable
- 5. Capacity Zone
- 6. Generator
- 7. Glow Plug
- 8. Boom Malfunction

- 9. Platform Overload
- 10. Engine Error
- 11. Emissions Temperature

SECTION 3 - MACHINE CONTROLS AND INDICATORS

1. Battery Charge Indicator

Indicates a problem in the battery or charging circuit, and service is required.

2. Low Fuel Warning Indicator (Ford DF 2.5L Only)



Indicates the fuel in the fuel tank is low.

3. System Distress Indicator



The light indicates that the JLG Control System has detected an abnormal condition and a Discussed in Travella Condition and the

Diagnostic Trouble Code has been set in the system memory. Refer to the Service Manual for instructions concerning the trouble codes and trouble code retrieval.

The system distress indicator light will illuminate for 2-3 seconds when the key is positioned to the ON position to act as a self test.

4. Drive and Steer Disable Indicator

Indicates the Drive and Steer Disable function has been activated.



5. Capacity Zone Indicator

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



NOTE: Refer to the capacity decals on the machine for restricted and unrestricted platform capacities.

6. AC Generator Indicator

Indicates the generator is in operation.

7. Glow Plug Indicator



Indicates the glow plugs are on. The glow plugs are automatically turned on with the ignition circuit and remain on for approxi-



mately seven seconds. Start the engine only after the light goes out.

SECTION 3 - MACHINE CONTROLS AND INDICATORS

8. Boom Malfunction Indicator



When an audible alarm sounds and the Boom Malfunction Indicator illuminates when attempting to activate a tower boom function,

the function is being cutout by tower boom limit switch. This function is not permitted at the current boom configuration.

When an audible alarm sounds and the Boom Malfunction Indicator illuminates steady without a boom function attempt, the upright is out of alignment.

WARNING

DISCONTINUE OPERATION IF THE UPRIGHT IS OUT OF ALIGNMENT OR THE BOOM MALFUNCTION LIGHT REMAINS ILLUMINATED.

WARNING

IF THE UPRIGHT IS OUT OF ALIGNMENT WITH THE PLATFORM RAISED, LOWER THE MAIN BOOM AND TELESCOPE OUT UNTIL THE PLATFORM REACHES THE GROUND. THE TOWER BOOM DOWN FUNCTION IS CUT OUT IN THIS CONDITION. REPORT THE PROB-LEM TO THE PROPER SERVICE PERSONNEL. DO NOT OPERATE THE MACHINE UNTIL THE CONDITION IS CORRECTED.

9. Platform Overload Indicator

Indicates the platform has been overloaded.



10. Engine Error Indicator

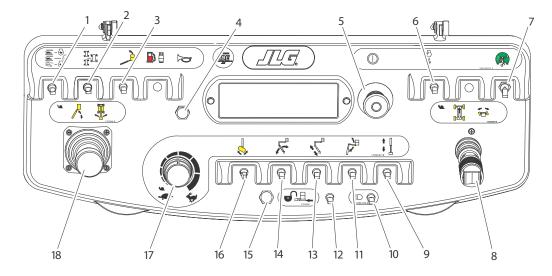
Indicates a fault with the engine and service is required or is requesting a cleaning sequence.

11. Emissions Temperature Indicator

Indicator illuminates when exhaust temperature reaches 1022° F (550° C).



3.5 PLATFORM CONSOLE



- 1. Drive Speed / Torque Select
- 2. SteerSelect
- 3. Platform Level Override
- 4. Horn
- 5. Power/Emergency Stop

- Engine Start / Aux Power 11.
- 7. Drive Orientation Override
- 8. Drive/Steer
- 9. Telescope
- 10. Lights

6.

- 11. Jib
- 12. Soft Touch/SkyGuard/SkySense Override
- 13. TowerTelescope
- 14. Tower Lift

- 15. SoftTouch/SkyGuard/SkySense Indicator
- 16. Platform Rotate
- 17. Function Speed Control
- 18. Main Lift / Swing

3-12

WARNING

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

1. Drive Speed/Torque Select

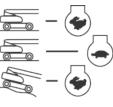
The machine has a three position switch - The forward position gives maximum drive speed. The back position gives maximum torque for rough terrain and climbing grades. The center posi-

tion allows the machine to be driven as quietly as possible.

2. Steer Select (If Equipped)

When equipped with four wheel steering, the action of the steering system is operator selectable. The center switch position gives

conventional front wheel steering with the rear wheels unaffected. This is for normal driving at maximum speeds. The forward position is for "crab" steering. When in this mode both front and rear axles steer in the same direction, which allows the chassis to move sideways as it goes forward. This can be used for positioning the machine in aisle ways or against buildings. The back switch position is for "coordi-



nated" steering. In this mode the front and rear axles steer in the opposite directions to produce the tightest turning circle for maneuvering in confined areas.

To re-synchronize the front and rear axles, position the rear drive wheels to the forward drive position by selecting either crab or compound steer, then select front steer (center switch position) to operate the normal steering function.

ONLY USE THE PLATFORM LEVELING OVERRIDE FUNCTION FOR SLIGHT LEVELING OF THE PLATFORM. INCORRECT USE COULD CAUSE THE LOAD/OCCUPANTS TO SHIFT OR FALL. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

3. Platform Leveling Override

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

4. Horn



A push-type Horn switch supplies electrical power to an audible warning device when pressed.

5. Power/Emergency Stop Switch

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

6. Engine Start/Auxiliary Power



When pushed forward, the switch energizes the starter motor to start the engine.

The Auxiliary Power control switch energizes the electrically operated hydraulic pump. (Switch must be held on for duration of auxiliary pump use.)

The auxiliary pump functions to provide sufficient oil flow to operate the basic machine functions should the main pump or engine fail. The auxiliary pump will operate tower boom lift, tower telescope, main boom lift, main telescope and swing. 7. Drive Orientation Override

When the boom is swung over the rear tires or further in either direction, the Drive Orientation indicator will illuminate when the drive



function is selected. Push and release the switch, and within 3 seconds move the Drive/Steer control to activate drive or steer. Before driving, locate the black/white orientation arrows on both the chassis and the platform controls. Move the drive controls in a direction matching the directional arrows.

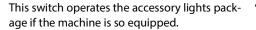
NOTE: Lift, Swing, and Drive control levers are spring-loaded and will automatically return to neutral (off) position when released.

A WARNING

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

SECTION 3 - MACHINE CONTROLS AND INDICATORS

10. Lights (If Equipped)



- **NOTE:** The ignition switch does not have to be on to operate the lights, so care must be taken to avoid draining the battery if left unattended. The master switch and/or the ignition switch at the ground control will turn off power to all lights.
 - 11. Jib

Push forward to lift up, pull back to lift down. Variable lift speed is using the Function Speed Control.

12. Soft Touch/SkyGuard/SkySense Override Switch

For machines equipped with SkyGuard:

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

3-15

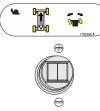
NOTE: To operate the Drive joystick, pull up on the locking ring below the handle.

- **NOTE:** The Drive joystick is spring loaded and will automatically return to neutral (off) position when released.
 - 8. Drive/Steer

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

9. Main Boom Telescope

Provides extension and retraction of the main boom.



For machines equipped with both SkyGuard and Soft Touch:

The switch operates like the SkyGuard override switch as described above. The switch also enables the functions cut out by the Soft Touch system to



operate again at creep speed, allowing the operator to move the platform away from the obstacle that caused the shutdown situation.

For machines equipped with both SkyGuard and SkySense:

The switch operates like the SkyGuard override switch as described above. The switch also enables the functions cut out by the SkySense system to

This switch provides for extending and retracting of the tower boom when positioned to in



operate again at creep speed, allowing the operator to move the platform closer to the obstacle that caused the shutdown situation if desired.

13. Tower Telescope

5 Jul

or out. Tower Telescope must be fully retracted before operating Tower Lift. (Tower Telescope should not function when Tower Lift is not fully elevated "up").

14. Tower Lift

This switch provides for raising and lowering of the tower boom when positioned to "up" or "down". Tower Lift must be fully elevated "up" before operating Tower Telescope. (Tower Lift should not function when Tower Telescope is extended).

TO AVOID UPSET AND SERIOUS INJURY, DO NOT OPERATE MACHINE IF TOWER LIFT AND TELESCOPE DO NOT OPERATE IN THE ORDER DESCRIBED ABOVE.

15. Soft Touch/SkyGuard/SkySense Indicator

Provides rotation of the platform.

Indicates the Soft Touch bumper is against an object or the SkyGuard sensor has been activated. All controls are cut out until the override button is pushed. For Soft Touch, controls are then active in the Creep Mode or for SkyGuard, controls will work normally.

If machine is equipped with SkySense, the switch will mute the SkySense speakers.

16. Platform Rotate



17. Function Speed Control

This control knob affects the speed of the Tower Lift, Tower Telescope, Jib Lift, Telescope, and Platform Rotate functions.



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

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

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



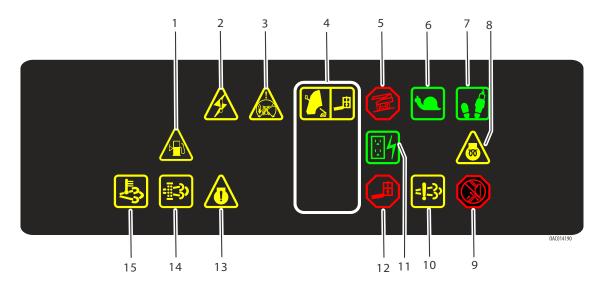
- **NOTE:** The Main Boom Lift/Swing joystick is spring loaded and will automatically return to neutral (off) position when released.
 - 18. Main Lift/Swing Controller

Provides main lift and swing. Push forward to lift up, pull backward to boom down. Move right to swing right, move left to swing left.





3.6 PLATFORM CONSOLE INDICATOR PANEL



- 1. Low Fuel (Ford DF 2.5L Only)
- 2. System Distress
- 3. Drive Orientation
- 4. Capacity Zone Indicator
- 5. Tilt Alarm/Warning
 - Creep
- 7. Footswitch

6.

- 8. Glow Plug 12
- Boom Malfunction
 Engine Emissions System Failure
 Concentration
- 11. Generator
- 12. Platform Overload

- 13. Engine Error
- 14. Diesel Particulate Filter
- 15. Emissions Temperature

1. Low Fuel Warning Indicator (Ford DF 2.5L Only)

Indicates the fuel in the fuel tank is low.

2. System Distress Indicator



The light indicates that the JLG Control System has detected an abnormal condition and a Diagnostic Trouble Code has been set in the

system memory. Refer to the Service Manual for instructions concerning the trouble codes and trouble code retrieval.

3. Drive Orientation Indicator

When the boom is swung beyond the rear drive tires or further in either direction, the Drive Orientation indicator will illuminate

when the drive function is selected. This is a signal for the operator to verify that the drive control is being operated in the proper direction (i.e. controls reversed situations).

4. Capacity Zone Indicator

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



- **NOTE:** Refer to the capacity decals on the machine for restricted and unrestricted platform capacities.
 - 5. Tilt Warning Light and Alarm

This red illuminator indicates that the chassis is on a slope. If the boom is above horizontal and the machine is on a slope, the tilt alarm warn-



ing light will illuminate, an alarm will sound, available functions are placed in CREEP speed, and drive is cut out in direction of travel. Drive in the opposite direction may be allowed under certain conditions.

Tilt Angle	Market		
4°	All Markets		

IF TILT WARNING LIGHT IS ILLUMINATED WHEN BOOM IS RAISED OR EXTENDED, RETRACT AND LOWER TO BELOW HORIZONTAL THEN REPOSITION MACHINE SO THAT IT IS WITHIN THE LIMITS OF THE MAXIMUM OPERATING SLOPE BEFORE EXTENDING BOOM OR RAISING BOOM ABOVE HORIZONTAL.

6. Creep Speed Indicator



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

7. Footswitch/Enable Indicator



To operate any function, the footswitch must be depressed and the function selected within seven seconds. The enable indicator shows

that the controls are enabled. If a function is not selected within seven seconds, or if a seven second lapse between ending one function and beginning the next function, the enable light will go out and the footswitch must be released and depressed again to enable the controls.

Releasing the footswitch removes power from all controls and applies the drive brakes.



TO AVOID SERIOUS INJURY, DO NOT REMOVE, MODIFY OR DISABLE THE FOOTSWITCH BY BLOCKING OR ANY OTHER MEANS.

8. Glow Plug Indicator

Indicates the glow plugs are operating. After turning on ignition, wait until light goes out before cranking engine.



9. Boom Malfunction Indicator

When an audible alarm sounds and the Boom Malfunction Indicator illuminates when attempting to activate a tower boom function,



the function is being cutout by tower boom limit switch. This function is not permitted at the current boom configuration.

When an audible alarm sounds and the Boom Malfunction Indicator illuminates steady without a boom function attempt, the upright is out of alignment.



DISCONTINUE OPERATION IF THE UPRIGHT IS OUT OF ALIGNMENT OR THE BOOM MALFUNCTION LIGHT REMAINS ILLUMINATED.

A WARNING

IF THE UPRIGHT IS OUT OF ALIGNMENT WITH THE PLATFORM RAISED, LOWER THE MAIN BOOM AND TELESCOPE OUT UNTIL THE PLATFORM REACHES THE GROUND. THE TOWER BOOM DOWN FUNCTION IS CUT OUT IN THIS CONDITION. REPORT THE PROB-LEM TO THE PROPER SERVICE PERSONNEL. DO NOT OPERATE THE MACHINE UNTIL THE CONDITION IS CORRECTED.

10. Engine Emissions System Failure Indicator

Icon illuminates when there is a fault with the Emissions After Treatment system.

11. AC Generator Indicator

Indicates the generator is in operation.

12. Platform Overload Indicator

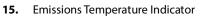
Indicates the platform has been overloaded.

13. Engine Error Indicator

Indicates a fault with the engine and service is required or is requesting a cleaning sequence.

14. Diesel Particulate Filter (DPF) Indicator

Icon will illuminate when standstill exhaust system cleaning is required.



Indicator illuminates when exhaust temperature reaches 1022° F (550° C).





SECTION 4. MACHINE OPERATION

4.1 **DESCRIPTION**

This machine is a Mobile Elevating Work Platform (MEWP) used to position personnel, along with their necessary tools and materials at work locations.

The primary operator control station is in the platform. From this control station, the operator can drive and steer the machine in both forward and reverse directions. The operator can raise or lower the main or tower boom or swing the boom to the left or right. Standard boom swing is 360 degree continuous left and right of the stowed position. The machine has a Ground Control Station. Ground Controls operate all functions except drive and steer. Except for performing inspections and the Function Check, the ground controls are to be used in an emergency to lower the platform to the ground should the operator in the platform be unable to do so.

4.2 OPERATING CHARACTERISTICS AND LIMITATIONS

Capacities

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

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

Platform Load Sensing System (LSS)

The Platform Load Sensing System provides the platform capacity to the control system.

If the LSS system senses an overload condition, boom functions will be disabled, the overload indicator is illuminated at both control stations, and the overload alarm will sound. Reduce the weight in the platform to not exceed the rated workload indicated on the capacity decal, then the controls will work again.

Stability

Machine stability is based on two positions which are called FOR-WARD and BACKWARD stability. The machines position of least FORWARD stability is shown in Section 4-2., Position of Least Forward Stability, and its position of least BACKWARD stability is shown in Section 4-1., Positions of Least Backward Stability.



TO AVOID FORWARD OR BACKWARD TIPPING, DO NOT OVERLOAD MACHINE OR OPERATE THE MACHINE BEYOND THE LIMIT OF THE MAXIMUM OPERATING SLOPE.

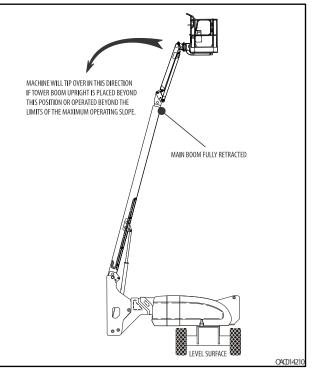


Figure 4-1. Positions of Least Backward Stability

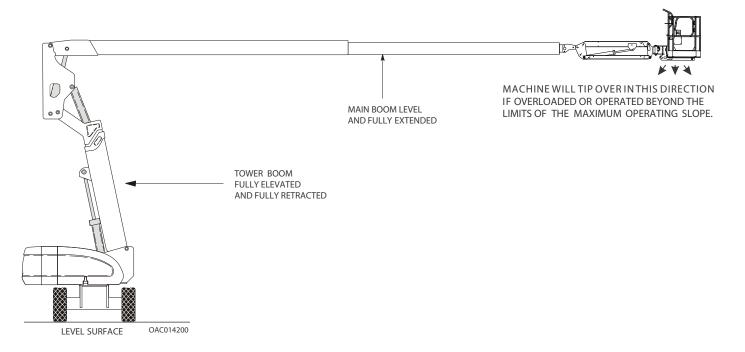


Figure 4-2. Position of Least Forward Stability

SECTION 4 - MACHINE OPERATION

4.3 ENGINE OPERATION

- **NOTE:** When operating a machine at high altitudes, a decrease in machine performance may occur due to a decrease in air density.
- **NOTE:** When operating a machine at high ambient temperatures, a decrease in machine performance and an increase in engine coolant temperature may occur.
- **NOTE:** Contact JLG Customer Service for operation under abnormal conditions.
- **NOTE:** Initial starting should always be performed from the Ground Control station.



Starting Procedure



IF ENGINE FAILS TO START PROMPTLY, DO NOT CRANK FOR AN EXTENDED TIME. SHOULD ENGINE FAIL TO START AGAIN, ALLOW STARTER TO "COOL OFF" FOR 2-3 MIN-UTES. IF ENGINE FAILS AFTER SEVERAL ATTEMPTS, REFER TO ENGINE MAINTENANCE MANUAL.

NOTE: Diesel engines only: After turning on ignition, operator must wait until glow plug indicator light goes out before cranking engine.



1. Turn key of Platform/Ground Select switch to Ground.



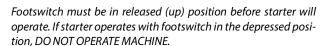
2. Pull the Power/Emergency Stop switch to On.



3. Push the Engine Start switch until engine starts.



8. Push the Engine Start switch until engine starts.



Shutdown Procedure

NOTE:

IF AN ENGINE MALFUNCTION CAUSES AN UNSCHEDULED SHUTDOWN, DETERMINE THE CAUSE AND CORRECT IT BEFORE RESTARTING THE ENGINE.

- 1. Remove all load and allow engine to operate at low speed for 3-5 minutes; this allows further reduction of internal engine temperature.
- 2. Push Power/Emergency Stop switch in.



Refer to Engine Manufacturer's manual for detailed information.

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ALLOW ENGINE TO WARM-UP FOR A FEW MINUTES AT LOW SPEED BEFORE APPLYING ANY LOAD.

- **4.** After engine has had sufficient time to warm up, push in the Power/Emergency Stop switch and shut engine off.
- **5.** Turn Platform/Ground Select switch to Platform.
- 6. From Ground Control Console, pull Power/ Emergency Stop switch out.
- **7.** From Platform, pull Power/Emergency Stop switch out.







Air Shutoff Valve (ASOV) (If Equipped)



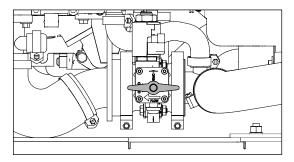
Air Shutoff Valve (ASOV) is an overspeed protection device mounted to the engine's air intake system. When the valve is actuated, it obstructs airflow intake and stops the engine. Weekly tests are recommended to ensure the valve remains in good working condition.

- **1.** Start the engine, running at idle.
- 2. Open the red switch guard on ASOV test switch, then activate toggle to test mode.
- **NOTE:** Test switch is located under hood to the left of the ground control panel (look for test decal).



- 3. At the ground control panel, select any function and activate until valve actuates at test RPM of 1500. Once valve actuates, engine will stop.
- **4.** Turn ignition to OFF.
- 5. Visually inspect valve to ensure it appears in good condition.
- 6. Reset valve by rotating valve handle to the Open position.
- **NOTE:** The handle cannot be turned unless the machine is off. Ensure the ignition is moved to the OFF position.

DO NOT USE ASOV AS AN ALTERNATIVE TO SHUTTING DOWN MACHINE PROPERLY.



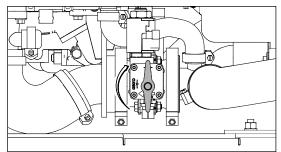


Figure 4-3. ASOV Reset (Closed to Open Position)

Fuel Reserve / Shut-Off System

NOTE: Reference the Service and Maintenance Manual along with a qualified JLG Mechanic to verify your machine setup.

The Fuel Shutoff System monitors the fuel in the tank and senses when the fuel level is getting low. The JLG Control System automatically shuts the engine down before the fuel tank is emptied unless the machine is set up for Engine Restart.

If fuel level reaches the Empty range, the Low Fuel light will begin to flash once a second and there will be approximately 60 minutes of engine run time left. If the system is in this condition and automatically shuts down the engine or if the operator man-



ually shuts down the engine before the 60 minute run time is complete, the Low Fuel light will flash 10 times a second and the engine will react according to machine setup. Setup options are as follows:

• Engine One Restart - When the engine shuts down, the operator will be permitted to cycle power and restart the engine once with approximately 2 minutes of run time. After the 2 minute run time is complete or if the engine is shut down by the operator prior to the completion of the 2 minute run time, it cannot be restarted until fuel is added to the tank.

• Engine Restart - When the engine shuts down, the operator will be permitted to cycle power and restart the engine for approximately 2 minutes of run time. After the 2 minutes of run time is complete, the operator may cycle power and restart the engine for an additional 2 minutes of run time. The operator can repeat this process until there is no more fuel available.

NOTICE

CONTACT A QUALIFIED JLG MECHANIC IF THE MACHINE NEEDS RESTARTED AFTER NO MORE FUEL IS AVAILABLE.

• Engine Stop - When the engine shuts down, no restarts will be permitted until fuel is added to the tank.

4.4 DIESEL PARTICULATE FILTER (IF EQUIPPED)

Diesel Particulate Filter (DPF) is an emissions control system used in diesel engines and requires operator interaction to make sure proper operation of the system.

For peak operation, the DPF system must be cleaned using one of two methods, Standstill Cleaning and Maintenance Standstill Cleaning. Standstill Cleaning is any cleaning requested by the engine outside of the regular maintenance window (for example, if the system detects excessive soot in the DPF canister). Maintenance Standstill Cleaning is cleaning requested by the engine on the regular maintenance interval.

NOTE: The system will reset the maintenance interval back to zero hours after Standstill or Maintenance Standstill Cleaning events are performed.

Standstill Cleaning

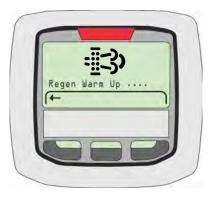
The following conditions must be met to perform Standstill Cleaning.

- Machine must be stationary
- Boom in the stowed position
- No personnel in platform
- Engine must be idling
- Coolant temperature must be above 104° F (40° C)
- Machine in Ground Station mode
- 1. The Diesel Particulate Filter (DPF) Indicator on the Platform Control Panel will flash when stand-still cleaning is required.



2. Move the machine to an suitable area free of flammables and personnel that could be exposed to hot exhaust.

3. Launch the cleaning process by pressing the DPF button on the Ground Console for 3 seconds. The Indicator Gauge will display the following screen.



4. The Main Cleaning process will begin and last for approximately 30 to 60 minutes. The following screen will show that the process has begun and includes a status bar that indicates the progress of the cleaning process.





5. After the cleaning process is complete, the engine will run for approximately 5 minutes to allow the engine and Exhaust After Treatment (EAT) to cool down. The Indicator Gauge will display the "Regen Complete" screen as shown and the Emissions Temperature indicator will no longer be illuminated.



Maintenance Standstill Cleaning Initiation Methods

Maintenance Standstill Cleaning can be started by one of two methods, by using the Analyzer or the DPF button on the Ground Console. All the same conditions as outlined under Standstill Cleaning must be met.

Canceling Maintenance Standstill

Maintenance Standstill Cleaning will be stopped immediately if:

- The Platform/Ground Select switch is switched from Ground to Platform mode
- Any function switch is enabled to perform a boom function
- The Engine is powered down

If Maintenance Standstill Cleaning is interrupted, it must be reinitiated and the Indicator Gauge will display the "Regen Failed" screen as shown.



Unsuccessful Cleaning Event

If there is an unsuccessful cleaning event, the DPF icon will show on the display gauge. Possible causes of an Unsuccessful Cleaning Event are:

- Engine is not warmed up
- DEF tank is frozen
- Machine functions operated during cleaning event in progress
- Other engine faults are active

The Gauge will display "Regen Failed" screen as shown. If the cleaning event has failed, the process must be repeated.



DPF Filter Replacement due to Ash Load

The DPF collects non-burnable particulates which cannot be removed by the Standstill Cleaning process. Build up of the ash load requires filter maintenance and/or exchange.

DPF filter maintenance or exchange requirement is indicated by the DPF Exchange icon shown on the display gauge.



	Ash Load	DPF Filter Exchange Indicator	Engine Error Indicator	Derate
Normal Operation	<100%			None
Filter Exchange Required	≥100%	DPF Filter Exchange		None
Warning Level	≥105%	Blinking DPF Filter Exchange		None
Warning Level	Warning Level ≥110%		Continuous	Machine placed in Creep and DTC active. Contact Deutz Dealer

 Table 4-1.
 Ash Load DPF Filter Replacement

	l Cleaning vels	Machine Hours Since Last Cleaning	Engine Error Indicator	DPF Indicator	Emissions Temperature Indicator*	Derate	Comments			
	Normal	0-500					Between 500 and 650 hours,			
0	Operation	500-650			ц.	None	cleaning cycle can be initiated with JLG analyzer.			
1	Standstill Required	650-750		·! 3	L	None	Engine coolant temperature must be >40° C and machine			
2	Warning Level	750-775	Continuous	i 3	I	Machine placed in Creep and DTC active	must be in ground station mode.			
3	Shut Off Level	>775	Blinking	i >	I	Idle Lock. Boom Func- tions Locked Out and trapped in Transport.				
4	Filter Exchange	DPF Regeneration NOT POSSIBLE DPF Filter exchange required	Blinking	i	L.	Idle Lock. Boom Func- tions Locked Out and trapped in Transport.	Contact Deutz Dealer			
*Emissions Te	Emissions Temperature indicator continuously ON during Standstill Cleaning									

Soot Levels	Soot Load/ Time	DPF Cleaning Initiation Methods	Engine Error Indicator	DPF Indicator	Emissions Temperature Indicator*	Derate	Comments
Normal Opera- tion	<99%				ц.	None	
Standstill Required	100% to 109% or 100 Hours	Switch in JLG Machine or JLG Analyzer	or		I	None	Will remain in Stand- still mode for 100 hours or until the soot load reaches 109%
Warning Level	109% to 125% or 25 Hours	Switch in JLG Machine or JLG Analyzer	Continuous	i	I	Machine placed in Creep and DTC active	Will remain in Warning level (Derate) for 25 hours or until the soot load reaches 125%
Shut Off Level	125% to 161%	DPF Cleaning Not Possible	Blinking	i >	L.	Idle Lock. Boom Functions Locked Out and Trapped in Transport	Contact Deutz Dealer
Filter Exchange	>161%	DPF Cleaning Not Possible	Blinking	i >	L.	Idle Lock. Boom Functions Locked Out and Trapped in Transport	
*EmissionsTemp	erature indicator co	ontinuously ON during Standstill C	leaning		•		

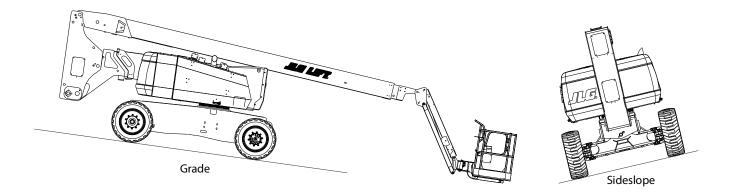


Figure 4-4. Grade and Sideslope

4.5 TRAVELING (DRIVING)

See Figure 4-4., Grade and Sideslope

NOTE: Refer to the Operating Specifications table for Gradeability and Sideslope ratings.

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

Traveling is limited by two factors:

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



DO NOT DRIVE WITH BOOM ABOVE HORIZONTAL EXCEPT ON A SMOOTH, FIRM SUR-FACE WITHIN THE LIMITS OF THE MAXIMUM OPERATING SLOPE.

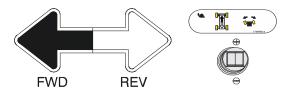
TO AVOID LOSS OF TRAVEL CONTROL OR TIP OVER, DO NOT DRIVE MACHINE ON GRADES EXCEEDING THOSE SPECIFIED IN THE OPERATING SPECIFICATIONS SECTION OF THIS MANUAL.

BE SURE THE TURNTABLE LOCK IS ENGAGED BEFORE ANY EXTENDED TRAVELING.

DO NOT DRIVE ON SIDESLOPES WHICH EXCEED 4 DEGREES.

USE EXTREME CAUTION WHEN DRIVING IN REVERSE AND AT ALL TIMES WHEN THE PLATFORM IS ELEVATED.

BEFORE DRIVING, LOCATE THE BLACK/WHITE ORIENTATION ARROWS ON BOTH THE CHASSIS AND THE PLATFORM CONTROLS. MOVE THE DRIVE CONTROLS IN A DIREC-TION MATCHING THE DIRECTIONAL ARROWS FOR THE INTENDED DIRECTION OF TRAVEL



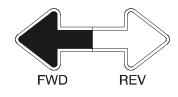
Traveling Forward and Reverse

- **1.** At Platform Controls, pull out Emergency Stop switch and activate footswitch.
- Position Drive controller to FORWARD or REVERSE as desired.



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

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



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



Traveling on a Grade

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

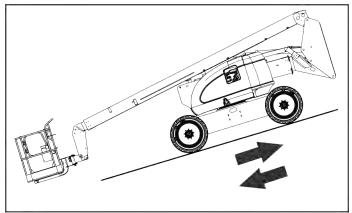


Figure 4-5. Traveling on a Grade



IF THE BOOM IS OVER THE FRONT (STEER) AXLE, DIRECTION OF STEER AND DRIVE MOVEMENT WILL BE OPPOSITE FROM THE MOVEMENT OF THE CONTROLS.

4.6 STEERING

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

4.7 PLATFORM

Platform Level Adjustment



ONLY USE THE PLATFORM LEVELING OVERRIDE FUNCTION FOR SLIGHT LEVELING OF THE PLATFORM. INCORRECT USE COULD CAUSE THE LOAD/OCCUPANTS TO SHIFT OR FALL. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

To Level Up or Down - Position the Platform/Level control switch Up or Down and hold until the platform is level.

Platform Rotation

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



4.8 BOOM



A RED TILT WARNING LIGHT IS LOCATED ON THE CONTROL CONSOLE WHICH LIGHTS WHEN THE CHASSIS IS ON AN EXCESSIVE SLOPE. DO NOT SWING OR RAISE BOOM ABOVE HORI-ZONTAL WHEN INDICATOR IS LIT.

DO NOT DEPEND ON THE TILT WARNING LIGHT AS A LEVEL INDICATOR FOR THE CHASSIS. THE TILT WARNING LIGHT INDICATES CHASSIS IS ON AN EXCESSIVE SLOPE (4 DEGREES OR GREATER). CHASSIS MUST BE LEVEL BEFORE SWINGING OR RAISING BOOM ABOVE HORI-ZONTAL OR DRIVING WITH THE BOOM ELEVATED.

TO AVOID TIP OVER IF RED TILT WARNING LIGHT LIGHTS WHEN THE BOOM IS RAISED ABOVE HORIZONTAL, LOWER PLATFORM TO GROUND LEVEL. THEN REPOSITION MACHINE SO THAT CHASSIS IS LEVEL BEFORE RAISING BOOM.

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

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

TO AVOID A COLLISION AND INJURY IF PLATFORM DOES NOT STOP WHEN A CONTROL SWITCH OR LEVER IS RELEASED, REMOVE FOOT FROM FOOTSWITCH OR USE EMER-GENCY STOP SWITCH TO STOP THE MACHINE.

Swinging the Boom

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



NOTICE

WHEN SWINGING THE BOOM MAKE SURE THERE IS AMPLE ROOM FOR THE BOOM TO CLEAR SURROUNDING WALLS, PARTITIONS AND EQUIPMENT.

NOTE: On CE Market machines, when boom functions are being operated there is an interlock that prevents the use of Drive and Steer functions.

Raising and Lowering the Tower Boom

This machine has two controls for the tower boom (two toggle switches), one controls tower lift, the other tower telescope. The switching system will sequence its Lift and Telescope functions as follows:

- 1. Sequence while raising the Tower Boom from the fully lowered position.
 - **a.** The Tower Boom must be fully elevated "up" (approximately 12 degrees from vertical) before the Tower Boom can be extended from the fully retracted position.



b. The Tower Telescope "out" or "in" will only be operable when the Tower Boom is fully elevated "up".



- 2. Sequence while lowering the Tower Boom from the fully elevated "up" position.
 - Operate Tower Telescope "in" until Tower Boom is fully retracted. (Tower must not lift "down until boom is telescoped "in" fully.



b. The Tower lift "down" will only operate when the Tower Boom is fully retracted.





TO AVOID TILTING MACHINE WHILE TOWER BOOM SWITCHING MALFUNCTIONS. LOWER PLATFORM TO GROUND USING MAIN BOOM LIFT AND TELESCOPE FUNCTIONS. HAVE CONDITION CORRECTED BY A CERTIFIED JLG SERVICE TECHNICIAN BEFORE CON-TINUING USE OF MACHINE.

DISCONTINUE OPERATION IF THE UPRIGHT IS OUT OF ALIGNMENT OR THE BOOM MALFUNCTION LIGHT REMAINS ILLUMINATED.

NOTICE

IF THE UPRIGHT IS OUT OF ALIGNMENT WITH THE PLATFORM RAISED, LOWER THE MAIN BOOM AND TELESCOPE OUT UNTIL THE PLATFORM REACHES THE GROUND. THE TOWER BOOM DOWN FUNCTION IS CUT OUT IN THIS CONDITION. REPORT THE PROB-LEM TO THE PROPER SERVICE PERSONNEL. DO NOT OPERATE THE MACHINE UNTIL THE CONDITION IS CORRECTED.

Raising and Lowering the Main Boom

To raise or lower the Main Boom, position the Main Boom Lift switch to Up or Down until the desired height is reached.

Telescoping the Main Boom

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



4.9 SHUT DOWN AND PARK

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

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

NOTICE

IF PARKING A MEWP WITH THE BOOM ELEVATED IN AN EFFORT TO CONSERVE SPACE, BOOMS MAY BE ELEVATED, BUT SHALL NOT BE EXTENDED. IT IS THE OPERATOR'S RESPONSIBILITY TO ENSURE ALL SAFETY PRECAUTIONS IN SECTION 1 OF THIS MAN-UAL ARE FOLLOWED FOR EACH UNIQUE SITUATION.

4.10 MACHINE SAFETY SYSTEM OVERRIDE (MSSO) (IF EQUIPPED)

The Machine Safety System Override (MSSO) is used to override function controls for Emergency Platform Retrieval only. Refer to Section 5.5, Machine Safety System Override (MSSO) (CE Only) for operating procedures.



4.11 SKYGUARD OPERATION

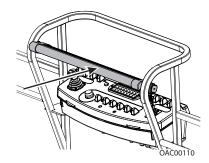
SkyGuard provides enhanced control panel protection. When the SkyGuard sensor is activated, functions in use at the time of actuation will reverse or cutout. The SkyGuard Function Table provides more details on these functions.

During activation, the horn will sound and, if equipped with a SkyGuard beacon, the beacon will illuminate until sensor and footswitch are disengaged.

If the SkyGuard sensor remains activated after function reversal or cutout, depress and hold the SkyGuard Override Switch to allow normal functions until the sensor is disengaged.

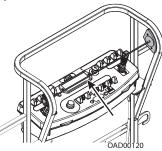
Consult the following illustrations to determine which type of SkyGuard the machine has. Regardless of type, SkyGuard function according to the SkyGuard Function Table does not change.

SkyGuard

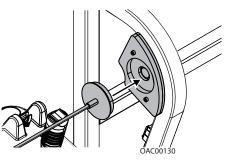


Approximately 50 lb (222 Nm) of force is applied to yellow bar.

SkyGuard - SkyLine

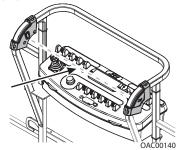


Cable is pressed, breaking the magnetic connection between the cable and right bracket.



Reattach magnetic end of cable to bracket if it becomes disconnected.

SkyGuard - SkyEye



Operator passes through path of sensor beam.

SkyGuard Function Table

Drive Forward	Drive Reverse	Steer	Swing	Tower Lift Up	Tower Tele Out	Tower Lift Down	Tower Tele In	Boom Lift Up	Boom Lift Down	Boom Tele Out	Boom Tele In	Jib Lift	Basket Level	Basket Rotate
R*/C**	R	C	R	R	C	C	C	R	R	R	C	C	C	C
R = Indicat	R = Indicates Reversal is Activated													
C = Indicat	tes Cutout is	Activated												
* DOS (Driv	/e Orientatio	n System) E	nabled											
** DOS No	** DOS Not Enabled, machine is driving straight without steering, and any other hydraulic function is active													
Note: If Sk	Note: If SkyGuard is enabled with the Soft Touch system, functions will cut out instead of reversing.													

4.11 LIFTING AND TIE DOWN

Tie Down



WHEN TRANSPORTING THE MACHINE, THE BOOM MUST BE FULLY LOWERED INTO THE BOOM REST.

- **1.** Place the boom in the stowed position with the turntable locked.
- 2. Remove all loose items from the machine.
- **3.** Secure the chassis and the platform using straps or chains of adequate strength and attached to the designated tie down points.

See Figure 4-6.

Lifting

- 1. Refer to the Serial Number Plate, refer to the Specifications section of this manual, or weigh the individual unit to find out the Gross Vehicle Weight.
- **2.** Place the boom in the stowed position with the turntable locked.
- 3. Remove all loose items from the machine.
- **4.** Attach lifting device and equipment only to the designated lifting points.
- 5. Properly adjust the rigging to prevent damage to the machine and so the machine remains level.

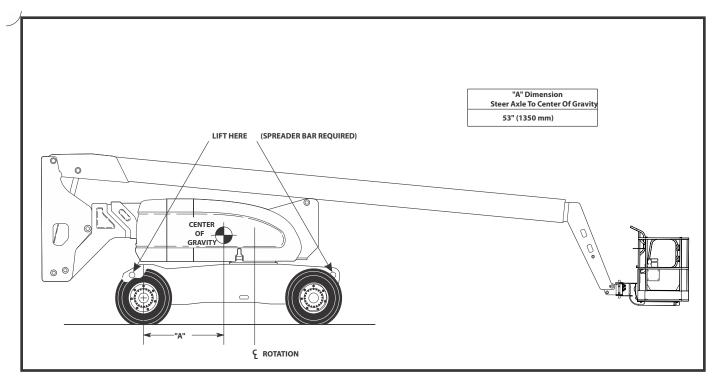


Figure 4-6. Lifting Chart

4.12 OSCILLATING AXLE LOCKOUT TEST (IF EQUIPPED)

NOTICE

LOCKOUT SYSTEM TEST MUST BE PERFORMED QUARTERLY, ANY TIME A SYSTEM COM-PONENT IS REPLACED, OR WHEN IMPROPER SYSTEM OPERATION IS SUSPECTED.

Refer to Section 2.6, Oscillating Axle Lockout Test (If Equipped) for procedure.

4.13 TOWING

The machine is not equipped with a tow package. Refer to Section 5 for emergency towing procedures.

4.14 TOW BAR (IF EQUIPPED)



RUNAWAY VEHICLE/MACHINE HAZARD. MACHINE HAS NO TOWING BRAKES. TOWING VEHICLE MUST BE ABLE TO CONTROL MACHINE AT ALL TIMES. ON-HIGHWAY TOWING NOT PERMITTED. FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE SERIOUS INJURY OR DEATH.

MAXIMUM TOWING SPEED 5 MPH (8 KM/H)

MAXIMUM TOWING GRADE 25%.

Prior to towing the machine, complete the following:



DO NOT TOW MACHINE WITH ENGINE OPERATING OR DRIVE HUBS ENGAGED.

- **1.** Retract, lower and position boom in travel position; lock turntable.
- 2. Lower tow bar and connect to towing vehicle
- 3. Disconnect drive hubs by inverting disconnect cap.

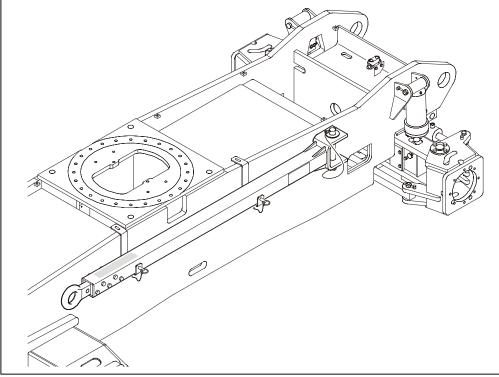


Figure 4-7. Tow Bar

4. Position steer/tow selector valve for towing; pull valve knob out for towing. The machine is now in the towing mode.

After towing the machine, complete the following:

- 1. Actuate steer/tow selector valve for steering; push valve knob in to the actuated position.
- 2. Reconnect drive hubs by inverting disconnect cap.
- **3.** Disconnect tow bar from towing vehicle and place it in the stowed position as shown in Figure 4-7. The machine is now in the driving mode.

4.15 DUAL FUEL SYSTEM (GAS ENGINE ONLY)

Description

The dual fuel system enables the standard gasoline engine to run on either gasoline or LP gas. The system includes pressurized cylinders mounted on the frame, and the valves and switches needed to switch the fuel supply from gasoline to LP gas or from LP gas to gasoline.

A two position, Fuel Select switch at the platform control station supplies electrical power to open the gasoline shut-off solenoid and close the LP gas shut off solenoid when positioned to the Gasoline

•	凸

position. This switch also allows electrical power to open the LP gas shut-off solenoid and close the gasoline shut-off solenoid when positioned to the LP position.



IT IS POSSIBLE TO SWITCH FROM ONE FUEL SOURCE TO THE OTHER WITHOUT STOP-PING THE ENGINE. EXTREME CARE MUST BE TAKEN AND THE FOLLOWING INSTRUC-TIONS MUST BE FOLLOWED.

Changing From Gasoline to LP Gas

1. Start engine from Ground Control Console.



- **2.** Open hand valve on LP gas supply tank by turning counterclockwise.
- 3. While the engine is operating, place the two position LPG/Gasoline switch at the platform control station to the "LP" position.

Changing From LP Gas to Gasoline

- 1. With engine operating on LP under a no-load condition, position FUEL SELECT switch at Platform Control Station to GASOLINE position.
- **2.** Close hand valve on LP gas supply tank by turning clockwise.

4.16 RE-SYNCHRONIZE UPRIGHT

Releveling Valve

A pull type control valve allows the operator to adjust the upright level cylinder if the upright is not 90° (vertical) relative to the chassis (Refer to Figure 2.9 and Figure 2.10). This valve is located in the tank compartment area.

Perform the following steps with the aid of an assistant:

1. Turn the key switch to the ground control position.



2. Start the engine.



- **3.** Pull and hold the red relevel knob located next to the main control valve. Refer to Figure 4-8.
- 4. Raise the tower boom 6 feet (1.8 m).



- 5. Release the red re-level knob.
- Lower the tower boom fully and continue to hold down the switch to Tower Down for an additional 20 seconds.



7. Repeat steps 3 thru 6 as necessary until the upright is 90° (vertical) relative to the chassis.

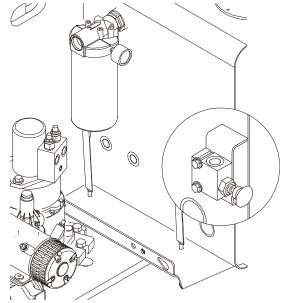


Figure 4-8. Re-leveling Valve

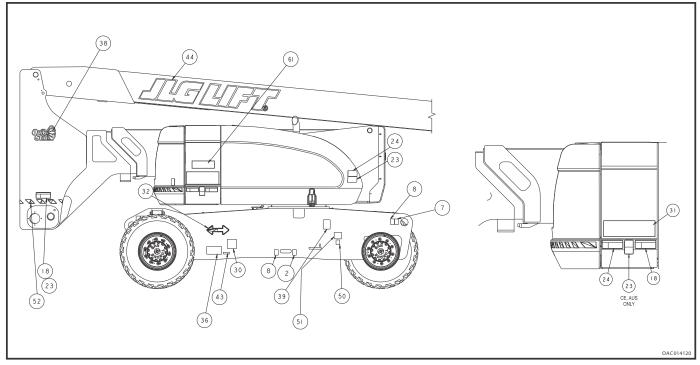


Figure 4-9. Decal Installation - Sheet 1 of 5

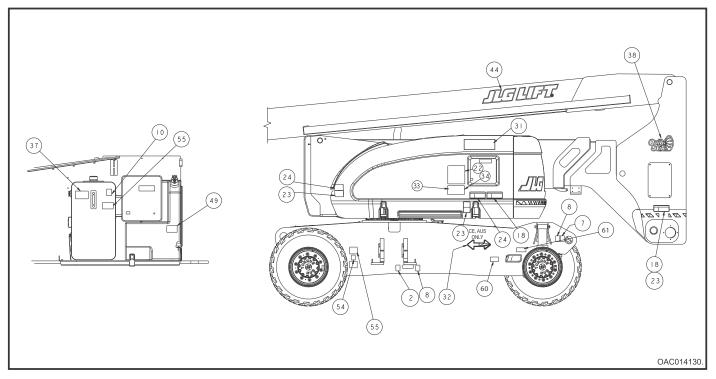


Figure 4-10. Decal Installation - Sheet 2 of 5

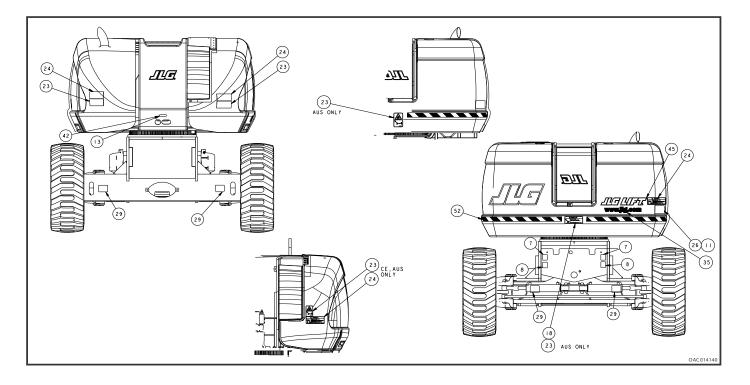


Figure 4-11. Decal Installation - Sheet 3 of 5

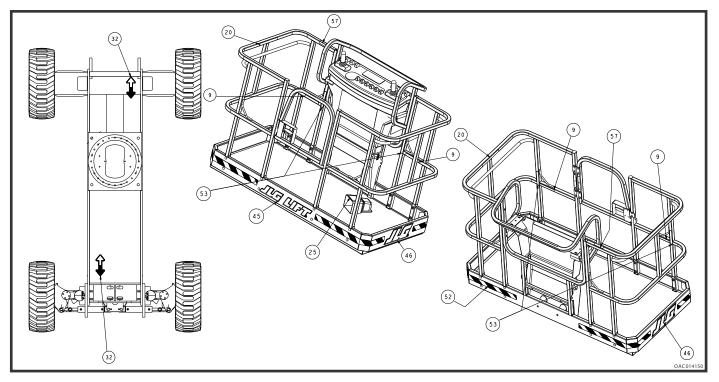


Figure 4-12. Decal Installation - Sheet 4 of 5

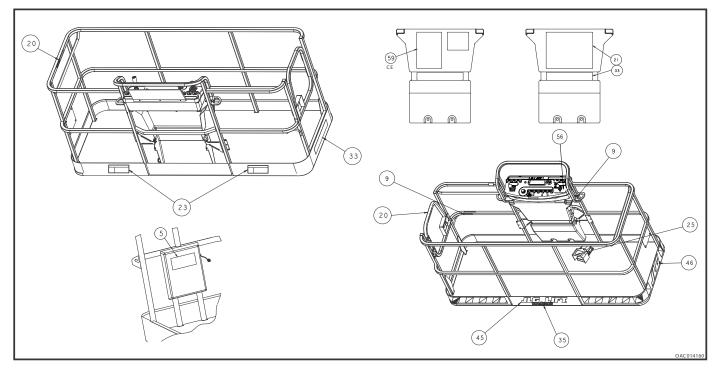


Figure 4-13. Decal Installation - Sheet 5 of 5

ltem #	ANSI 1001244620-B	Korean 1001244622-B	Chinese 1001244624-B	Spanish 1001244626-B	Portuguese 1001244628-B	French 1001244630-B	CE 1001244632-B	Japanese 1001244634-B	Australian 1001244636-B
1									
2	1701499	1701499	1701499	1701499	1701499	1701499	1701499	1701499	1701499
3									
4									
5	1701509	1701509	1701509	1701509	1701509	1701509	1701509	1701509	1701509
6									
7	1703811	1703811	1703811	1703811	1703811	1703811	1703811	1703811	1703811
8	1703814	1703814	1703814	1703814	1703814	1703814	1703814	1703814	1703814
9	1704277	1704277	1704277	1704277	1704277	1704277	1704277	1704277	1704277
10	1704412	1704412	1704412	1704412	1704412	1704412	1704412	1704412	1704412
11							1705980		1705980
12									
13	3251243			3251243	3251243	3251243		3251243	
14									
15									
16									
17									

Table 4-2. Deca

Decal Legend - 800AJ

ltem #	ANSI 1001244620-B	Korean 1001244622-B	Chinese 1001244624-B	Spanish 1001244626-B	Portuguese 1001244628-B	French 1001244630-B	CE 1001244632-B	Japanese 1001244634-B	Australian 1001244636-B
18	1703953	1703945	1703943	1703941	1705903	1703942		1703944	
19									
20	1702868	1705969	1705968	1704001	1705967	1704000			
21	1703797	1703927	1703925	1703923	1705895	1703924	1705921	1703926	1705921
22	1705336	1705345	1705348	1705917	1705896	1705347	1705822	1705344	1705822
23	1703804	1703951	1703949	1703947	1705898	1703948	1701518	1703950	1701518
24	1703805	1703939	1703937	1703935	1705897	1703936	1705961	1703938	1705961
25	3252347	1703981	1703982	1703983	1705902	1703984	1705828	1703980	1705828
26	3251813	3251813	3251813	3251813	3251813	3251813			
27									
28									
29	1703960	1703960	1703960	1703960	1703960	1703960	1703960	1703960	1703960
30	1702631	1702631	1702631	1702631	1702631	1702631	1702631	1702631	1702631
31	1703773	1703773	1703773	1703773	1703773	1703773	1703773	1703773	1703773
32	1701501	1701501	1701501	1701501	1701501	1701501	1701501	1701501	1701501
33	1001253920	1001253924	1001253926	1001253930	1001253936	1001253922	1705978	1001253932	1705978
34	1001253921	1001253925	1001253927	1001253931	1001253937	1001253923		1001253933	

Decal Legend - 800AJ

ltem #	ANSI 1001244620-B	Korean 1001244622-B	Chinese 1001244624-B	Spanish 1001244626-B	Portuguese 1001244628-B	French 1001244630-B	CE 1001244632-B	Japanese 1001244634-B	Australian 1001244636-B
35	1704885	1704885	1704885	1704885	1704885	1704885		1704885	1704885
36									
37	1001096141	1705977	1705977	1705977	1705977	1705977	1705977	1705977	1705977
38	1703959	1703959	1703959	1703959	1703959	1703959	1703959	1703959	1703959
39	1001131269								
40									
41									
42							3251242		3251242
43		1001143852	1001143852	1001143852	1001143852		1001143852		
44	1702861	1702861	1702861	1702861	1702861	1702861		1702861	1702861
45	1702774	1702774	1702774	1702774	1702774	1702774		1702774	1702774
46	1702773	1702773	1702773	1702773	1702773	1702773	1702773	1702773	1702773
47	3250872	3250872	3250872	3250872	3250872	3250872	1706957	3250872	3250872
48	1705090	1705090	1705090	1705090	1705090	1705090	1706960	1705090	1705090
49	1701505	1701505	1701505	1701505	1701505	1701505	1701505	1701505	1701505
50	1701542	1701542	1701542	1701542	1701542	1701542	1701542	1701542	1701542
51	1701543	1701543	1701543	1701543	1701543	1701543		1701543	1701543

Table 4-2. Decal Legend - 800AJ

ltem #	ANSI 1001244620-B	Korean 1001244622-B	Chinese 1001244624-B	Spanish 1001244626-B	Portuguese 1001244628-B	French 1001244630-B	CE 1001244632-B	Japanese 1001244634-B	Australian 1001244636-B
52	4420051	4420051	4420051	4420051	4420051	4420051	4420051	4420051	4420051
53									
54	1001231801								
55	1702788						1702788		1702788
56	1705351	1705427	1705430	1705910	1705905	1705429		1705426	
57									1001112551
58							1001197408		1001197408
59							1001180861		1001180861
60	1001223055	1001224048	1001224050	1001224049	1001224052	1001223971	1001159323		
61	1001229113	1001229113	1001229113	1001229113	1001229113	1001229113	1001229113	1001229113	1001229113
62	1001223453								
63	1001184618	1001184618	1001184618	1001184618	1001184618	1001184618	1001184618	1001184618	1001184618

Table 4-2.

Decal Legend - 800AJ

SECTION 5. EMERGENCY PROCEDURES

5.1 GENERAL

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

5.2 INCIDENT NOTIFICATION

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

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

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

NOTICE

FOLLOWING ANY ACCIDENT, THOROUGHLY INSPECT THE MACHINE AND TEST ALL FUNCTIONS FIRST FROM THE GROUND CONTROLS, THEN FROM THE PLATFORM CON-TROLS. DO NOT LIFT ABOVE 3 M (10 FT.) UNTIL YOU ARE SURE THAT ALL DAMAGE HAS BEEN REPAIRED, IF REQUIRED, AND THAT ALL CONTROLS ARE OPERATING COR-RECTLY.

5.3 EMERGENCY OPERATION

Operator Unable to Control Machine

IF THE PLATFORM OPERATOR IS PINNED, TRAPPED OR UNABLE TO OPERATE OR CONTROL MACHINE:

- 1. Other personnel should operate the machine from ground controls only as required.
- 2. Other qualified personnel on the platform may use the platform controls. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION PROPERLY.
- **3.** Cranes, forklift trucks or other equipment can be used to remove platform occupants and stabilize motion of the machine.

Platform or Boom Caught Overhead

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

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

5.4 EMERGENCY TOWING PROCEDURES

Towing this machine is prohibited, unless properly equipped. However, provisions for moving the machine have been incorporated. For specific procedures, refer to Section 4.

5.5 MACHINE SAFETY SYSTEM OVERRIDE (MSSO) (CE ONLY)

The Machine Safety System Override (MSSO) is only to be used to retrieve an operator that is pinned, trapped, or unable to operate the machine and function controls are locked out from the platform due to a platform overload situation.



- **NOTE:** If the MSSO functionality is used, the fault indicator is set with a fault code in the JLG Control System which must be reset by a qualified JLG Service Technician.
- **NOTE:** No functional checks of the MSSO system are necessary. The JLG Control system will set a Diagnostic Trouble Code if the control switch is faulty.

To operate the MSSO:

- **1.** From the ground control console, place the Platform/ Ground Select switch in the Ground position.
- 2. Pull out the Power/Emergency Stop control.
- 3. Start the engine.
- **4.** Press and hold the MSSO switch and the control switch for the desired function.

SECTION 6. ACCESSORIES

	Market								
Accessory	ANSI (USA Only)	ANSI	CSA	Œ	AUS	Japan	China		
Fall Arrest Platform (36" x 96")	\checkmark	\checkmark	\checkmark						
Fall Arrest Platform (36" x 72")		\checkmark	\checkmark						
Pipe Racks		\checkmark	\checkmark		\checkmark				
SkyAir™		\checkmark	\checkmark		\checkmark				
SkyCutter™		\checkmark	\checkmark						
SkyGlazier™		\checkmark	\checkmark		\checkmark				
SkyPower™-7.5 kW		\checkmark	\checkmark		\checkmark	\checkmark			
Generator - 4 kW		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
SkyWelder™		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark		
Soft Touch		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Bolt-On External Fall Arrest (36" x 96")	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark		
Bolt-On External Fall Arrest (36" x 72")		\checkmark	\checkmark			\checkmark	\checkmark		
SkySense™		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

Table 6-1. Available Accessories

Table 6-2. Options/Accessories Relationship Table

ACCESSORY	REQUIRED ITEM	COMPATIBLE WITH (Note 1)	INCOMPATIBLE WITH	INTERCHANGABLE WITH (Note 2)
PipeRacks		SkyPower™	Platform MMR**, Platform MTR*, Soft Touch	SkyCutter, SkyGlazier, SkyWelder
SkyAir™	SkyPower™	SkyCutter™, SkyGlazier™, SkyWelder™		
SkyCutter™	SkyPower™	SkyWelder™	4' Platform, Pipe Racks, Platform MTR*, Soft Touch	SkyGlazier™
SkyGlazier™		SkyPower™	4' Platform, Pipe Racks, Platform MTR*, Soft Touch	SkyCutter™, SkyWelder™
SkyPower™		SkyCutter™, SkyGlazier™, SkyWelder™		
SkyWelder™	SkyPower™	SkyCutter™	4' Platform, Pipe Racks, Platform MTR*, Soft Touch	SkyGlazier™
SoftTouch			Pipe Racks, SkyCutter™, Sky- Sense™, SkyGlazier™, SkyWelder™	
SkySense™		SkyPower™	Pipe Racks, SkyGlazier™, Sky- Welder™	
Note 1: Any non-"Sky" accessory not listed under "	'INCOMPATIBLE WITH" is assumed to be compatible.			-
Note 2: Can be used on same unit but not simultan	eously.			
* Platform MTR = Platform Mesh to Top Rail; ** Plat	tform MMR = Platform Mesh to Mid Rail			

6.1 FALL ARREST PLATFORM

6.2 PIPE RACKS

NOTE: See the JLG External Fall Arrest System manual (PN 3128935) for more detailed information.

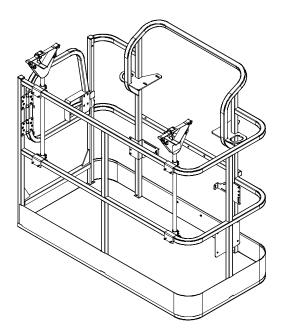
The external fall arrest system is designed to provide a lanyard attach point while allowing the operator to access areas outside the platform. Exit/enter the platform through the gate area only. The system is designed for use by one person.

Personnel must use fall protection at all times. A full body harness is required with lanyard not to exceed 6 ft (1.8 m) in length, that limits the maximum arrest force to 900 lb (408 kg) for the transfastener type and 1350 lb (612 kg) for the shuttle type fall arrest system.

Safety Precautions



DO NOT OPERATE ANY MACHINE FUNCTIONS WHILE OUTSIDE THE PLATFORM. USE CAUTION WHEN ENTERING/EXITING THE PLATFORM AT ELEVATION.



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

Capacity Specifications (Australia Only)

Max. Capacity in Racks	Max. Platform Capacity (With Max. Weight in Racks)					
80 kg	184 kg					
Max. Length of Material in Racks: 6.0 m Min. Length of Material in Racks: 2.4 m						

Safety Precautions

WARNING

REDUCE PLATFORM CAPACITY BY 100 LB (45.5 KG) WHEN INSTALLED.

WEIGHT IN RACKS PLUS WEIGHT IN PLATFORM MUST NOT EXCEED RATED CAPACITY.

NOTICE

THE MAXIMUM LOAD IN THE RACKS IS 180 LB (80 KG) EVENLY DISTRIBUTED BETWEEN THE TWO RACKS.

NOTICE

THE MAXIMUM LENGTH OF MATERIAL IN RACKS IS 20 FT (6.1 M).

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

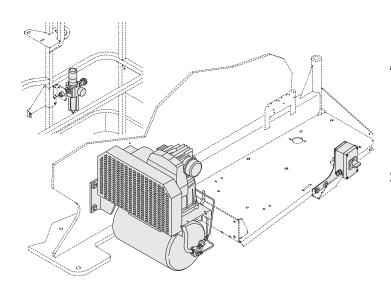
Preparation and Inspection

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

Operation

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

6.3 SKYAIR[™]



SkyAir[™] supplies compressed air to the platform. A filter/regulator located in the platform controls air pressure. The on/off switch is located in the engine compartment. This accessory receives power from the SkyPower[™] system.

Compressor Specifications

- Single stage with dual control
- CFM displacement: 9.3
- Motor: 230 V, 2 hp, 3-phase

Accessory Ratings

CONTROL MODE	VOLUME
Automatic Start-Stop Control	100 - 130 psi
Constant Run Control	105 - 120 psi

Safety Precautions



- Ensure no personnel are beneath platform.
- This factory-installed option is available only on specified models.
- Keep lanyard attached at all times.

Preparation and Inspection

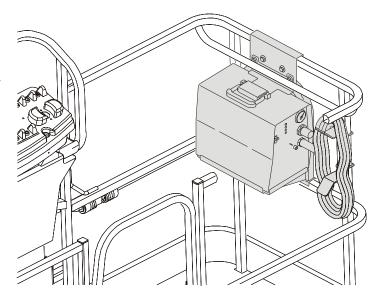
6.4 SKYCUTTER™

- Ensure compressor and hoses are secure.
- Check condition of belt and wiring.

Operation

Start the engine, turn on the generator, then turn on the air compressor.

See the J-Air Manual (PN 3128970) for more information.



SkyCutter[™] is capable of cutting up to a thickness of 3/8" metal. It can produce 27 A at 92 VDC at 35% duty cycle or 14 A at 92 VDC at 60% duty cycle. It receives power from the SkyPower[™] system.

Accessory Ratings

Spec.	Rated Output	Amperes Input @ Rated Output, 60 Hz, 1-Phase	kVa/kW	Plasma Gas	Plasma Gas Flow/ Pressure	Rated Cutting Capacity@101PM	Max. OCV
120 Volts ±10% (20 A)	27 A @ 91 VDC @ 20% Duty Cycle	28.8 max; 0.30 *	3.4kVa 3.2kW		4.5 cfm		
120 Volts ±10% (15 A)	20 A @ 88 VDC @ 35% Duty Cycle	20.6 max; 0.30*	2.5 kVa 2.3 kW	Air or Nitrogen Only @ 90 - 120 psi (621 - 827 kPa)	(129 L/Min) @ 60 psi	3/8 in (10 mm)	400 VDC
240 Volts ±10% (27 A)	27 A @ 91 VDC @ 35% Duty Cycle	13.9 max; 0.13 *	3.3 kVa 3.0 kW		(414 kPa)		
*Whileidling.							

Generator Output

Engine Speed of 1800 rpm +/- 10%.

ANSI Specifications:

- 3-phase: 240 V, 60 Hz, 7.5 kW
- 1-phase: 240 V/120 V, 60 Hz, 6 kW

Safety Precautions



DO NOT OVERLOAD PLATFORM.



DE-RATE THE PLATFORM BY 70 LB (32 KG) WHEN PLASMA CUTTER IS IN PLATFORM.

- Check for cracked welds and damage to plasma supports.
- Check for secure installation of cutter and bracket.

SECTION 6 - ACCESSORIES

- Ensure no personnel are beneath platform.
- Do not exit platform over rails or stand on rails.
- Use this option only on approved models.
- Keep lanyard attached at all times.
- Use correct cutting settings.
- Do not use electrical cords without ground.
- Do not use electrical tools in water.
- Do not cut platform, or ground through the platform.
- Wear proper cutting apparel.
- Do not drive machine while connected to external air/gas sources.

Preparation and Inspection

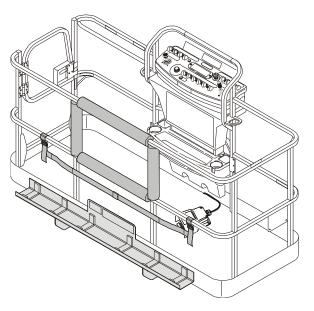
- Connect ground clamp to metal being cut.
- Ensure there is a good ground connection.

Operation

Start the engine, turn on the generator, then turn on the plasma cutter.

See the Miller Plasma Cutter Owner's Manual (PN 3128420) for more information.

6.5 SKYGLAZIER™



SkyGlazier[™] allows glaziers to position panels efficiently. The glazier package consists of a tray that attaches the bottom of the platform. The panel rests on the tray and against top-rail of the platform, which is padded to prevent damage. SkyGlazier[™] includes a strap to secure the panel to the platform rail.

Capacity Specifications

Capacity Zone *	Max. Tray Capacity	Max. Platform Capacity (With Max. Weight in Tray)
500 lb	150 lb	250 lb
(227 kg)	(68 kg)	(113 kg)
550 lb	150 lb	250 lb
(250 kg)	(68 kg)	(113 kg)
600 lb	150 lb	250 lb
(272 kg)	(68 kg)	(113 kg)
750 lb	150 lb	440 lb
(340 kg)	(68 kg)	(200 kg)
1000 lb	250 lb	500 lb
(454 kg)	(113 kg)	(227 kg)

* Refer to the capacity decals installed on the machine for capacity zone information.

Required Platform Type: Side-Entry

Max. Dimensions of Panel: 32 sq.ft. (3 sq.m.)

Safety Precautions



ENSURE PANEL IS SECURED WITH STRAP.

DO NOT OVERLOAD TRAY OR PLATFORM. TOTAL MACHINE CAPACITY IS REDUCED WHEN TRAY IS INSTALLED.

WITH SKYGLAZIER™ INSTALLED, THE ORIGINAL PLATFORM CAPACITY RATINGS ARE REDUCED AS SPECIFIED IN THE CAPACITY SPECIFICATIONS TABLE. DO NOT EXCEED NEW PLATFORM CAPACITY RATINGS. REFER TO CAPACITY DECAL LOCATED ON TRAY.

AN INCREASE OF THE AREA EXPOSED TO THE WIND WILL DECREASE STABILITY. LIMIT PANEL AREA TO 32 SQ.FT. (3 SQ.M).

- Ensure no personnel are beneath platform.
- Do not exit platform over rails or stand on rails.
- Remove tray when not in use.
- Use this option only on approved models.

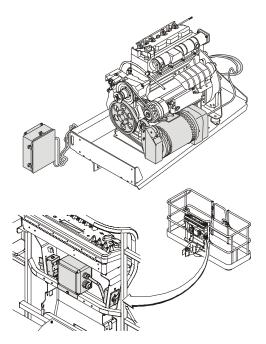
Preparation and Inspection

- Check for cracked welds and damage to tray.
- Ensure tray is properly secured to platform.
- Ensure strap is not torn or frayed.

Operation

- **1.** Load SkyGlazier[™] tray with panel.
- **2.** Route the adjustable strap around the panel and tighten until secure.
- 3. Position panel to its desired location.

6.6 SKYPOWER[™] 7.5 KW AND GENERATOR 4 KW



The SkyPower[™] and generator systems supply AC power to the platform through an AC receptacle to run tools, lights, cutting, and welding equipment.

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

Output

SkyPower 7.5 kW Specifications:

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

Generator 4 kW Specifications:

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

Safety Precautions



DO NOT OVERLOAD PLATFORM.

- Ensure no personnel are beneath platform.
- This factory-installed option is available only on specified models.
- · Keep lanyard attached at all times.
- Do not use electrical tools in water.
- Use correct voltage for tool being used.
- Do not overload circuit.

Preparation and Inspection

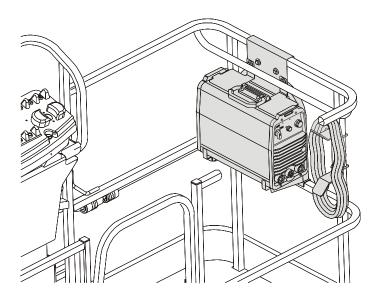
- Ensure generator is secure.
- · Check condition of belt and wiring.

Operation

Start the engine, then turn on the generator.

See the Miller Generator Technical Manual (PN 3121677) for more information.

6.7 SKYWELDER™



SkyWelder[™] is capable of TIG and Stick welding, producing 200 Amps at 100% duty cycle or 250 Amps at 50% duty cycle. This accessory receives power from the SkyPower[™] system.

Generator Output

Engine Speed of 1800 rpm +/- 10%.

ANSI Specifications:

- 3-phase: 240 V, 60 Hz, 7.5 kW
- 1-phase: 240 V/120 V, 60 Hz, 6 kW

Welding Accessories

- 12 ft welding leads with clamp and stinger (stored in the platform)
- Fire extinguisher

Accessory Ratings

			Welding	Maximum Open	Ar	nps Input At F	Rated Load Ou	ıtput (50/60 H	łz)		
Welding Mode	Input Power	Rated Output	Amperage Range Circuit		230 V	460 V	575 V	kVa	kW		
	3-phase	280 Amp at 31.2 V, 35% Duty Cycle	- 5-250 A	79 VDC -	32	17	13	15.7	10		
Stick (SMAW)	5-phase	200 Amp at 28 V, 100% Duty Cycle			20	11	8	10.3	6.4		
TIG (GTAW)	1-phase	200 Amp at 28 V, 50% Duty Cycle	F 200 A	C 200 A	Duty Cycle	79VDC	35			9.8	6.5
	i -pilase	150 Amp at 28 V, 100% Duty Cycle	J-200 K	79400	34			6.9	4.4		

Safety Precautions



DE-RATE THE PLATFORM BY 70 LB (32 KG) WHEN WELDER IS IN THE PLATFORM.

- · Check for cracked welds and damage to welder supports.
- Check for proper and secure installation of welder and bracket.
- Ensure no personnel are beneath platform.
- Do not exit platform over rails or stand on rails.
- Use this option only on approved models.
- Keep lanyard attached at all times.
- Ensure correct polarity of leads.
- Wear proper welding apparel.

SECTION 6 - ACCESSORIES

- 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 the platform.
- Do not ground through the platform.
- Do not use a high frequency arc starter with TIG welder.

Preparation and Inspection

- Connect ground clamp to metal being welded.
- Ensure there is a good ground connection and observe proper polarity.

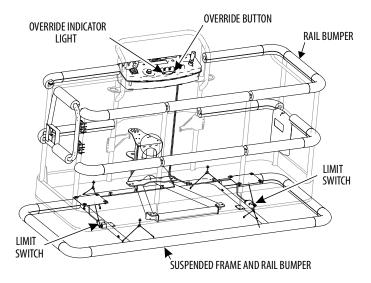
Operation

Start the engine, turn on the generator, then turn on the welder.

See the Miller Welder Owner's Manual (PN 3128957) for more information.

6.8 SOFT TOUCH

A padding kit is mounted to the platform rails and to a frame suspended below the platform. Limit switches deactivate platform functions when the padded framework contacts an adjacent structure. A button on the platform console allows override of the system.



6.9 SKYSENSE™

A WARNING

SKYSENSE IS NOT INTENDED TO REPLACE OR REDUCE THE NEED FOR THE OPERATOR TO BE AWARE OF THE ENVIRONMENT AROUND THE MACHINE. HAZARDS THAT WILL CAUSE SERIOUS INJURY OR DEATH MAY NOT BE PREVENTED OR REDUCED BY SKY-SENSE. THE OPERATOR MUST ALWAYS LOOK IN THE DIRECTION OF TRAVEL, AVOID POWER LINES, AVOID OBSTACLES THAT COULD STRIKE THE MACHINE OR PERSONS IN THE PLATFORM, AND FOLLOW ALL INSTRUCTIONS, DECALS, AND OTHER WARNINGS PROVIDED WITH THIS MACHINE.

THE OPERATOR MUST NOT RELY ON SKYSENSE AS A SUBSTITUTE FOR FOLLOWING THE INSTRUCTIONS AND WARNINGS CONTAINED IN THE MANUALS AND PLACARDS PRO-VIDED WITH THIS MACHINE.

SKYSENSE IS INTENDED TO ASSIST THE OPERATOR. SKYSENSE MAY NOT DETECT CER-TAIN OBJECTS DEPENDING ON SHAPE, TYPE OF MATERIAL, OR ORIENTATION OF THE OBJECT TO THE SENSORS. IT IS THE OPERATOR'S RESPONSIBILITY TO BE AWARE OF THEIR SURROUNDINGS AT ALL TIMES.

WARNING

DE-RATE THE PLATFORM BY 10 LB (4.5 KG) PER BAR WHEN INSTALLED ON THE PLATFORM (20 LB (9 KG) OR 30 LB (14 KG) TOTAL).

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

Preparation and Inspection

Pre-Operation Inspection:

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

To test the SkySense system:

- 1. In an area free of obstructions, ensure the machine is on a smooth, firm surface within the limits of the maximum operating slope.
- **2.** From the platform control console, elevate the boom until the bottom of the platform is at least 6 feet off the ground.
- 3. Continue to elevate the platform.
- 4. While elevating, hold your hand 6 inches to 12 inches above one of the upward facing sensors. The machine should stop, and the LED corresponding to that sensor (left LED for left sensor bar; right LED for right sensor bar; both LEDs for center sensor bar or overhead sensor) should be red.
- **5.** Recycle the footswitch and press the override button on the platform control console.

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- 6. Ensure the area below the platform is clear of obstructions and lower the platform. The machine should slow down, (SkySense Status LED will blink yellow with increasing frequency) and stop, (SkySense Status LED will be illuminated solid red) when the bottom of the platform is approximately 12 inches from the ground. The alarm should sound if it is not muted (refer to SkySense Alarm).
- **7.** Recycle the footswitch and press the override button on the platform control console.
- **8.** Continue to lower the platform. The machine should move in the elevated drive speed mode (SkySense Status LED will remain red).
- **NOTE:** The SkySense system will not stop machine operation while in Creep.

Operation

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

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

If the function has reached the warning zone, normal drive speed will resume when a function is activated in the opposite direction. If the machine has reached the SkySense stop zone, release the function and recycle the footswitch to activate a function in the opposite direction.

SkySense is active during the following functions:

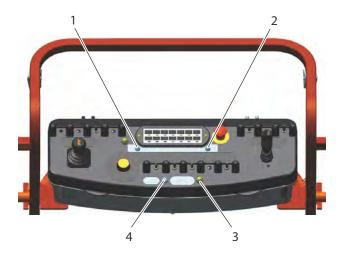
- Lift Up/Down (including jib functions)
- Platform Rotate (including jib rotate)
- Telescope Out
- Swing
- Reverse Drive

SECTION 6 - ACCESSORIES

NOTE: During active DOS (Drive Orientation System), SkySense is active when driving in both forward and reverse directions.

There are two LED indicators on the platform control box that signal SkySense activity.

- No LED: Normal operation.
- LED Flashing Yellow: Machine is in SkySense warning zone and will reduce function speed to creep. Flash frequency correlates to proximity of object.
- LED Red: Machine is in SkySense stop zone and all machine functions will cease.
- **LED Flashing Red**: SkySense sensor is obstructed or damaged. Obstructions must be removed and proper function verified. Damaged sensors must be replaced.



- 1. LED Indicator Light
- 2. LED Indicator Light
- 3. Override Button
- 4. Mute Speaker Switch

Figure 6-1. SkySense Platform Panel Indicators

SkySense Alarm

Activation of SkySense is signaled by an audible alarm and the LEDs on the platform console that indicate SkySense activity when reaching the warning or stop zones.

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

Additionally, when the machine is in the stop zone, the platform control panel audible alarm will sound. The system may be reset by recycling the footswitch.

The audible SkySense alarms can be muted by a switch on the platform control console, although LEDs will continue to light. The platform control panel alarm will sound when the machine enters the SkySense stop zone even when muted.

Override Button

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

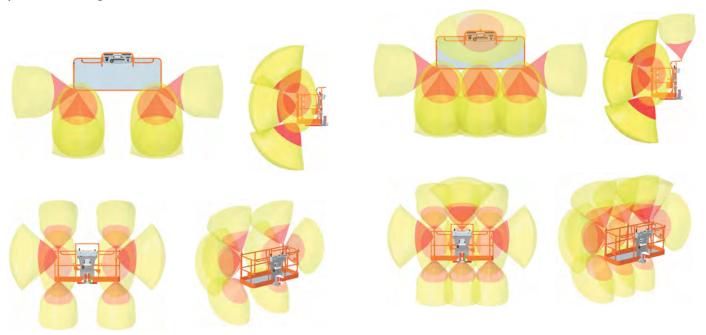
When the operator overrides the SkySense via the override button to get closer to a work surface, the machine will maintain creep speed and flash the appropriate indicator color based on location in either the warning or stop zones.

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

SKYGUARD OPERATION IS AFFECTED WHEN SKYSENSE IS INSTALLED ON A MACHINE. IF SKYSENSE ACTIVATION OCCURS PRIOR TO SKYGUARD ACTIVA-TION, SKYGUARD WILL ONLY CUT OUT FUNCTIONS IF ACTIVATED. IF SKY-GUARD ACTIVATION OCCURS PRIOR TO SKYSENSE ACTIVATION, SKYGUARD WILL FUNCTION NORMALLY.

SECTION 6 - ACCESSORIES

SkySense Coverage Areas





Level 1 (2 - Bar)

NOTE: Sensor Cones shown are approximations for reference only.

6.10 BOLT-ON EXTERNAL FALL ARREST

The bolt-on external fall arrest system is designed to provide a lanyard attach point while allowing the operator to access areas outside the platform. Exit/Enter the platform through the gate area only. The system is designed for use by one person.

Personnel must use fall protection at all times. A full body harness is required with lanyard not to exceed 6 ft. (1.8 M) in length, that limits the maximum arrest force to 900 lb (408 kg).

External Fall Arrest System capacity is 310 lb (140 kg) - one (1) person maximum.

Do not move platform during use of the external fall arrest system.

DO NOT OPERATE ANY MACHINE FUNCTIONS WHILE OUTSIDE OF PLATFORM. BE CAREFUL WHEN ENTERING/EXITING THE PLATFORM AT ELEVATION.

A WARNING

IF THE EXTERNAL FALL ARREST SYSTEM IS USED TO ARREST A FALL OR IS OTHERWISE DAMAGED, THE ENTIRE SYSTEM MUST BE REPLACED AND THE PLATFORM FULLY INSPECTED BEFORE RETURNING TO SERVICE. REFER TO THE SERVICE MANUAL FOR REMOVAL AND INSTALLATION PROCEDURES.

NOTICE

THE EXTERNAL FALL ARREST SYSTEM REQUIRES AN ANNUAL INSPECTION AND CERTI-FICATION. THE ANNUAL INSPECTION AND CERTIFICATION MUST BE PERFORMED BY A QUALIFIED PERSON OTHER THAN THE USER.

Inspection Before Use

The external fall arrest system must be inspected before each use of the aerial work platform. Replace components if there are any signs of wear or damage.

Before each use, perform a visual inspection of the following components:

• Cable: Inspect cable for proper tension, broken strands, kinks, or any signs of corrosion.

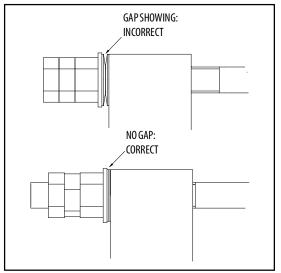


Figure 6-1. Bolt-On External Fall Arrest Cable Tension

- Fittings & Brackets: Ensure all fittings are tight and there are no signs of fractures. Inspect brackets for any damage.
- Attachment Ring: No cracks or signs of wear are acceptable. Any signs of corrosion requires replacement.
- Attaching Hardware: Inspect all attaching hardware to ensure there are no missing components and hardware is properly tight-ened.
- Platform Rails: No visible damage is acceptable.

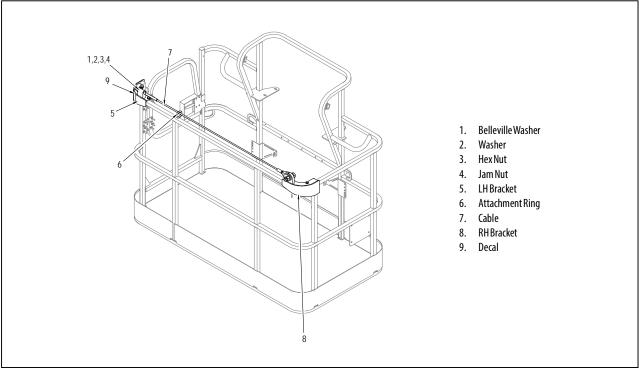


Figure 6-2. Bolt-On External Fall Arrest System

7.1 INTRODUCTION

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

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

Other Publications Available:

Service and Maintenance Manual	5
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Illustrated Parts Manual 312	15047
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7.2 OPERATING SPECIFICATIONS AND PERFORMANCE DATA

Operating Specifications

Table 7-1. Operating Specifications

Maximum Work Load (Capacity) All Markets Unrestricted:	500 lb (227 kg)
Maximum Wind Speed	28 MPH (12.5 m/s)
Travel Speed	3.0 MPH (4.83 km/h)
Maximum Operating Slope	4®
Maximum Travel Grade, stowed Position (Gradeability) 2WD 4WD	30% 45%
Maximum Travel Grade, stowed Position (Side Slope)	4®
Turning Radius (Outside) 2WS 4WS	19 ft 8 in (6.02 m) 11 ft 7 in (3.53 m)

Table 7-1. Operating Specifications

Tires

Turning Radius (Inside)	
2WS	12 ft 6 in (3.8 m)
4WS	6 ft(1.83 m)
Overall Width	8 ft 2 in (2.48 m)
Tailswing	8 ft 4 in (2.56 m)
Ground Clearance	11 ft (28 cm)
Machine Height Stowed	9 ft 9.5 in (2.98 m)
Machine Length (Stowed)	36 ft 6 in (11.13 m)
Wheel base	10 ft (3.05 m)
Boom Elevation	
Above Grade	+80 ft (24.38 m)
Below Grade	-13 ft 1 in (3.99 m)
Max. Ground Bearing Pressure	76 psi (5.3 kg/cm ²)
Max. Tire Load	17,755 lb (8054 kg)
Machine Weight approximately*	35,500 lb (16,103 kg)
Ambient (Operating) Temperature	See Figures 7-3. through 7-6.
* Certain options or country standards can increase we	ight.

Table 7-2. Tire Specifications

Size	Туре	Ply Rating	Load Range	Pressure
18-22.5 (Turf)	foam-filled	16	Н	N/A
18-625	foam-filled	16	Н	N/A

Capacities

Table 7-3. Capacities

FuelTank	Approx. 39 gallons (147.6 liters)		
HydraulicTank	Approx. 40 gallons (151.4 liters)		
Hydraulic System (Including Tank)	77 Gal. (291.4L)		
Drive Hub	44 ounces (1.3 L)		
Drive Brake	2.7 ounces (80 ml)		
Engine Crankcase			
Deutz D2011L04	11 quarts (10.5 L)		
DeutzTD 2.9L	2.4 Gallon (8.9 L) w/Filter		
Ford	7 quarts (2.5 L) w/Filter		

Engine Data

Table 7-4. Deutz D2011L04 Specifications

Туре	Liquid Cooled (Oil)	
Fuel	Diesel	
Oil Capacity		
Cooling System	5 Quarts (4.5 L)	
Crankcase	11 Quarts (10.5 L) w/Filter	
Total Capacity	16Quarts (15L)	
IdleRPM	1000	
Low RPM	1800	
High RPM	2600	
Alternator	55 Amp, belt drive	
FuelConsumption	0.88 GPH (3.33 lph)	
Battery	1000 Cold Cranking Amps, 210 minutes	
	Reserve Capacity, 12 VDC	
Horsepower	61.6@2600RPM, full load	

Table 7-6. Ford 2.5L

Fuel	Gasoline/LP Gas
OilCapacity	7 qt (6.6L)
Coolant Capacity	0.63 Gallon (2.4L)
Low RPM	1000±50 RPM
High RPM	3200±50 RPM
Alternator	150 Amp
Starter	64.4 Amp@3574 RPM
Fan Ratio	1:3
FuelConsumption	
Gas	1 GPH (3.79 LPH)
LP	5.34 lb/h (2.42 Kg/h)
MaxOutput (Power)	
Gasoline	84HP@3200
LP	80HP@3200
Max Output (Torque)	
Gasoline	142 ft.lb (192 Nm)@2400 RPM
LP	145 ft. lb (197 Nm)@2400 RPM

Table 7-5. Deutz TD 2.9 Specifications

Fuel	Ultra Low Sulfur Diesel (15 ppm)	
Output	67 hp (50 kW)	
Torque	173 ft.lbs. (234 Nm) @ 1800rpm	
Oil Capacity (Crankcase)	2.4 Gallon (8.9 L) w/Filter	
Cooling System	3.3 Gallon (12.5 L)	
Low RPM	1200±50 rpm	
High RPM	2600±50 rpm	
Alternator	95 Amp	
Fuel Consumption	0.65 GPH (2.48 lph)	

Hydraulic Oil

Table 7-7. Hydraulic Oil

Hydraulic System Operating Temperature Range	S.A.E. Viscosity Grade	
+0° to + 180° F (-18° to +83° C)	10W	
+0°to+210°F(-18°to+99°C)	10W-20, 10W30	
+50° to +210° F (+10° to +99° C	20W-20	

- **NOTE:** Hydraulic oils must have anti-wear qualities at least to API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service. JLG Industries recommends standard UTTO, which has an SAE viscosity index of 152.
- **NOTE:** When temperatures remain consistently below 20 degrees F. (-7 degrees C.), JLG Industries recommends the use of Mobil DTE13.
- **NOTE:** Aside from JLG recommendations, it is not advisable to mix oils of different brands or types, as they may not contain the same required additives or be of comparable viscosities. If use of hydraulic oil other than standard UTTO is desired, contact JLG Industries for proper recommendations.

Table 7-8. Mobilfluid 424 Specs

SAEGrade	10W30			
Gravity, API	29.0			
Density, Lb/Gal. 60°F	7.35			
Pour Point, Max	-46°F (-43°C)			
Flash Point, Min.	442°F (228°C)			
Visco	Viscosity			
Brookfield, cP at - 18°C	2700			
at 40°C	55 cSt			
at 100°C	9.3 cSt			
Viscosity Index	152			

Table 7-9. Mobil DTE 10 Excel 32 Specs

ISO Viscosity Grade	#32		
Specific Gravity	0.877		
Pour Point, Max	-40°F (-40°C)		
Flash Point, Min.	330°F (166°C)		
Viscosity			
at 40°C	33cSt		
at 100°C	6.6 cSt		
at 100°F	169 SUS		
at 210°F	48 SUS		
cp at -20° F	6,200		
Viscosity Index	140		

Table 7-10. Mobil EAL 224H Specs

Туре	Synthetic Biodegradable		
ISO Viscosity Grade	32/46		
Specific Gravity	.922		
Pour Point, Max	-25°F (-32°C)		
Flash Point, Min.	428°F (220°C)		
Operating Temp.	0 to 180°F (-17 to 162°C)		
Weight	7.64 lb per gal. (0.9 kg per liter)		
Viscosity			
at 40°C	37 cSt		
at 100°C	8.4cSt		
Viscosity Index	213		
NOTE: Must be stored above 32°F (14°C)			

Table 7-11. UCon Hydrolube HP-5046

Туре	Synthetic Biodegradable		
Specific Gravity	1.082		
Pour Point, Max	-58°F(-50°C)		
рН	9.1		
Viscosity			
at 0°C (32°F)	340 cSt (1600SUS)		
at 40°C (104°F)	46 cSt (215SUS)		
at 65°C (150°F)	22 cSt (106SUS)		
Viscosity Index	170		

Table 7-12. Exxon Univis HVI 26 Specs

	Specific Gravity	32.1	
Pour Point		-76°F (-60°C)	
	Flash Point 217°F (103°C)		
Viscosity			
at 40°C 25.8 cSt			
at 100°C		9.3 cSt	
ViscosityIndex 376		376	
NOTE: Mobil/Exxon recommends that this oil be checked on a yearly basis for viscosity.			

Critical Stability Weights

WARNING

DO NOT REPLACE ITEMS CRITICAL TO STABILITY WITH ITEMS OF DIFFERENT WEIGHT OR SPECIFICATION (FOR EXAMPLE: BATTERIES, FILLED TIRES, COUNTER WEIGHT, ENGINE, AND PLATFORM) DO NOT MODIFY UNIT IN ANY WAY TO EFFECT STABILITY.

COMPONENTS		LB	KG.
Tire & Wheel Size (Foam Filled Only)	18-22.5 (Turf)	724	328
(roannined only)	18-625	601	273
Engine	Deutz	534	242
	GM w/pumps	1030	468
Counterweight	Turntable	4805	2180
Wheel Hubs	Rear	218	99
	Front 2WD	210	99
	Front 4WD	218	99
Platform	6 FT. (1.83 M)	205	93
	8 FT. (2.44 M)	230	105

Table 7-13. Critical Stability Weights

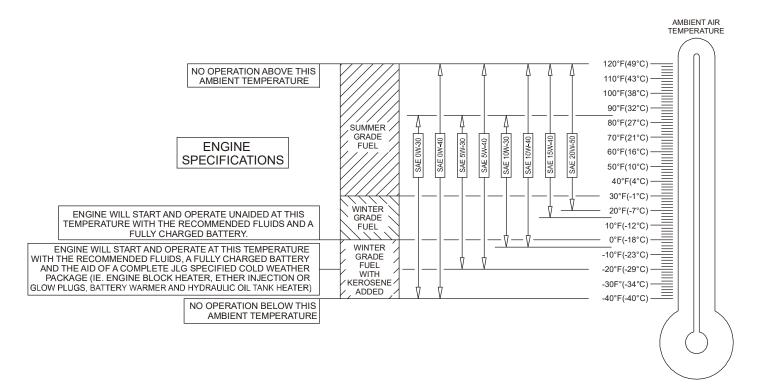


Figure 7-1. Engine Operating Temperature Specifications - Deutz - Sheet 1 of 2

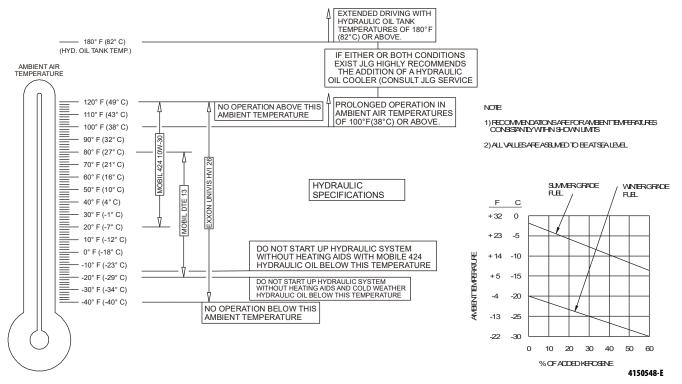


Figure 7-2. Hydraulic System Operating Temperature Specifications - Deutz - Sheet 2 of 2

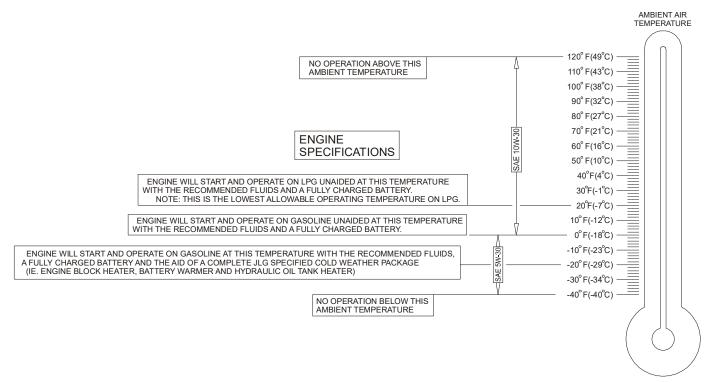


Figure 7-3. Engine Operating Temperature Specifications - Ford - Sheet 1 of 2

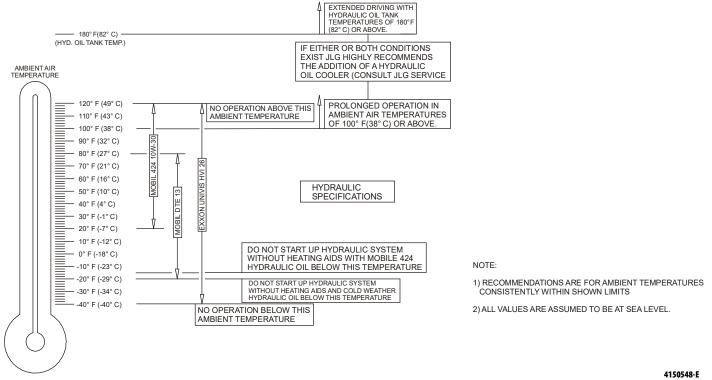


Figure 7-4. Hydraulic System Operating Temperature Specifications - Ford - Sheet 2 of 2

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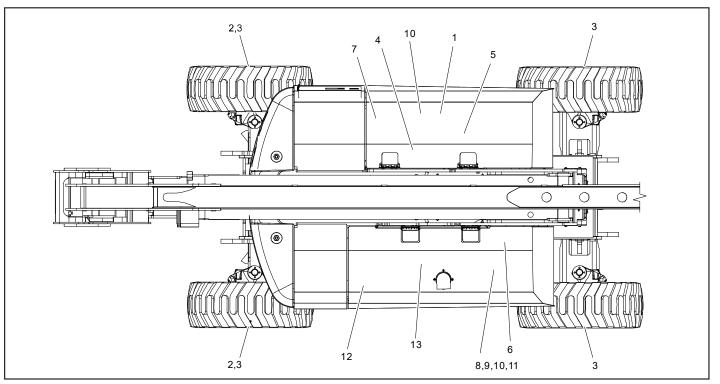


Figure 7-5. Maintenance and Lubrication Diagram

7.3 MAINTENANCE AND LUBRICATION

NOTE: The following numbers correspond to those in Figure 7-5., Maintenance and Lubrication Diagram.

Table 7-14. Lubrication Specifications.

KEY	SPECIFICATIONS
MPG	Multipurpose Grease having a minimum dripping point of 350° F (177° C). Excel- lent water resistance and adhesive qualities, and being of extreme pressure type. (Timken OK 40 pounds minimum.)
EPGL	Extreme Pressure Gear Lube (oil) meeting API service classification GL-5 or MIL- Spec MIL-L-2105
HO	Hydraulic Oil. API service classification GL-3, e.g. standard UTTO
EO	Engine (crankcase) Oil. Gas - API SF, SH, SG class, MIL-L-2104. Diesel - API CC/CD class, MIL-L-2104B/MIL-L-2104C
Super Lube®	Synthetic-Based Oil, Non-Flammable. Withstands temperatures within -45° to 450°F (-43° to 232° C). JLG P/N 3020042.



LUBRICATION INTERVALS ARE BASED ON MACHINE OPERATION UNDER NORMAL CONDITIONS. FOR MACHINES USED IN MULTI-SHIFT OPERATIONS AND/OR EXPOSED TO HOSTILE ENVIRONMENTS OR CONDITIONS, LUBRICATION FREQUENCIES MUST BE INCREASED ACCORDINGLY.

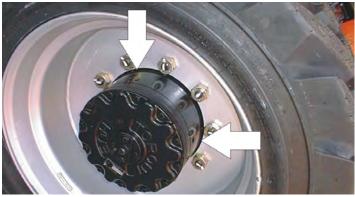
- **NOTE:** It is recommended as a good practice to replace all filters at the same time.
 - 1. Swing Bearing Internal Ball Bearing



Lube Point(s) - 2 Grease Fittings Capacity - A/R Lube - MPG Interval - Every 3 months or 150 hrs of operation Comments - Remote Access 2. Wheel Bearings



Lube Point(s) - Repack Capacity - A/R Lube - MPG Interval - Every 2 years or 1200 hours of operation 3. Wheel Drive Hub



Lube Point(s) - Level/Fill Plug Capacity - 17 oz. (0.5 L) - 1/2 Full Lube - EPGL

Interval - Check level every 3 months or 150 hrs of operation; change every 2 years or 1200 hours of operation Comments - Place Fill port at 12 o'clock position and Check

port at 3 o'clock position. Pour lubricant into fill port until it just starts to flow out of check port.

4. Swing Drive Hub



5. Hydraulic Return Filter



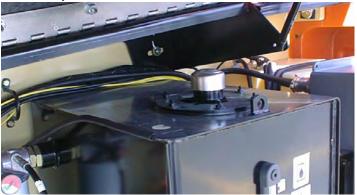
Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter or as indicated by Condition Indicator.

Lube Point(s) - Level/Fill Plug Capacity - 43 oz. (1.3 L) Lube - 90w80 Gear Oil Interval - Check level every 3 months or 150 hrs of operation; change every 2 years or 1200 hours of operation 6. Hydraulic Charge Filter



Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter or as indicated by Condition Indicator.

7. Hydraulic Tank



Lube Point(s) - Fill Cap Capacity - 40 gallons (151 L) Tank; 77 gallons (291.4 L) System Lube - HO Interval - Check Level daily; Change every 2 years or 1200 hours of operation.

8. Oil Change w/Filter - Deutz D2011



Lube Point(s) - Fill Cap/Spin-on Element Capacity - 11 Quarts(10.5 L) Crankcase Lube - EO Interval - Every Year or 1200 hours of operation Comments - Check level daily/Change in accordance with engine manual.

Lube Point(s) - Fill Cap/Spin-on Element Capacity - 9.6 Quarts (9.0 L) Lube - EO Interval - Every Year or 600 hours of operation Comments - Check level daily/Change in accordance with engine manual.

B. Oil Change w/Filter - Deutz TD2.9

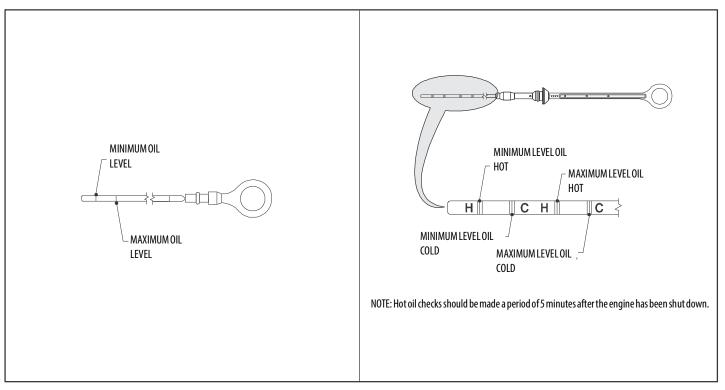


Figure 7-6. Deutz 2011 Engine Dipstick

9. Oil Change w/Filter - Ford



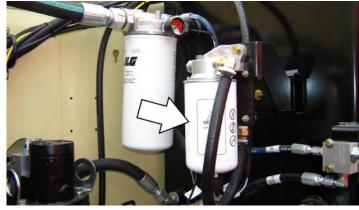
Lube Point(s) - Fill Cap/Spin-on Element (JLG P/N 7027965) Capacity - 4.5 qt. (4.25 L) w/filter Lube - EO Interval - 3 Months or 150 hours of operation Comments - Check level daily/Change in accordance with engine manual. 10. Fuel Filter - Deutz D2011



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

C. Fuel Filter - Deutz TD2.9 (On Engine)

B. Fuel Filter - Deutz TD2.9 (On Hydraulic Tank)



Lube Point(s) - Replaceable Element Interval - Change in accordance with engine manual

Lube Point(s) - Replaceable Element Interval - Change in accordance with engine manual

11. Fuel Filter (Gasoline) - Ford

Lube Point(s) - Replaceable Element Interval - Every 6 months or 300 hours of operation

12. Air Filter



Lube Point(s) - Replaceable Element Interval - Every 6 months or 300 hours of operation or as indicated by the condition indicator



B. Air Filter (Deutz TD 2.9)

Lube Point(s) - Replaceable Element Interval - Every 6 months or 300 hours of operation or as indicated by the condition indicator

All Alle

13. Fuel Filter (Propane) - Ford Engine



Interval - 3 Months or 150 hours of operation Comments - Replace filter. Refer to Section 7.5, Propane Fuel Filter Replacement

7.4 TIRES & WHEELS

Tire Damage

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

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

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

Tire Replacement

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

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

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

Wheel Replacement

The rims installed on each product model have been designed for stability requirements which consist of track width and load capacity. Size changes such as rim width, center piece location, larger or

smaller diameter, etc., without written factory recommendations, may result in an unsafe condition regarding stability.

Wheel Installation

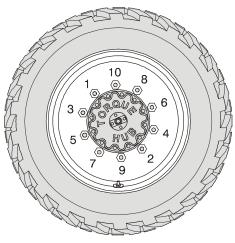
It is extremely important to apply and maintain proper wheel mounting torque.

WHEEL NUTS MUST BE INSTALLED AND MAINTAINED AT THE PROPER TORQUE TO PREVENT LOOSE WHEELS, BROKEN STUDS, AND POSSIBLE DANGEROUS SEPARATION OF WHEEL FROM THE AXLE. BE SURE TO USE ONLY THE NUTS MATCHED TO THE CONE ANGLE OF THE WHEEL.

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

1. Start all nuts by hand to prevent cross threading. DO NOT use a lubricant on threads or nuts.

2. Tighten nuts in the following sequence:



3. The tightening of the nuts should be done in stages. Following the recommended sequence, tighten nuts per wheel torque chart.

Table 7-15	. Wheel Torc	ue Chart
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TORQUE SEQUENCE				
1st Stage	2nd Stage	3rd Stage		
70 ft. lbs. (95 Nm)	170 ft. lbs. (225 Nm)	300 ft. lbs. (405 Nm)		

4. Wheel nuts should be torqued after first 50 hours of operation and after each wheel removal. Check torque every 3 months or 150 hours of operation.

7.5 PROPANE FUEL FILTER REPLACEMENT

Installation

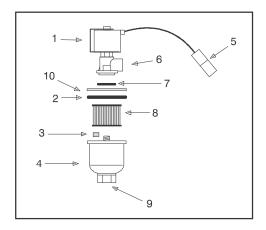
Removal

- 1. Relieve the propane fuel system pressure. Refer to Propane Fuel System Pressure Relief.
- 2. Disconnect the negative battery cable.
- 3. Slowly loosen the Filter housing and remove it.
- 4. Pull the filter housing from the Electric lock off assembly.
- 5. Remove the filter from the housing.
- 6. Locate Filter magnet and remove it.
- 7. Remove and discard the housing seal.
- 8. If equipped, remove and discard the retaining bolt seal.
- 9. Remove and discard mounting plate to lock off O-ring seal.

NOTICE

BE SURE TO REINSTALL THE FILTER MAGNET INTO THE HOUSING BEFORE INSTALLING NEW SEAL

- **1.** Install the mounting plate to lock off O-ring seal.
- 2. If equipped, install the retaining bolt seal.
- 3. Install the housing seal.
- 4. Drop the magnet into the bottom of the filter housing.
- 5. Install the filter into the housing.
- 6. If equipped, install the retaining bolt into the filter housing.
- 7. Install the filter up to the bottom of the electric lock off.
- 8. Tighten the filter bowl retainer to 106 in lb (12 Nm).
- **9.** Open manual shut-off valve. Start the vehicle and leak check the propane fuel system at each serviced fitting. Refer to Propane Fuel System Leak Test.



1. Electric Lock Off Solenoid 6. Fuel Outlet

2.

3.

- Housing Seal 7. O-ring
- Filter Magnet 8. Filter
- 4. Filter Housing 9. Fuel Inlet
- 5. Electrical Connector 10. Ring

Figure 7-7. Filter Lock Assembly

7.6 PROPANE FUEL SYSTEM PRESSURE RELIEF



THE PROPANE FUEL SYSTEM OPERATES AT PRESSURES UP TO 312 PSI (21.5 BAR). TO MINIMIZE THE RISK OF FIRE AND PERSONAL INJURY, RELIEVE THE PROPANE FUEL SYSTEM PRESSURE (WHERE APPLICABLE) BEFORE SERVICING THE PROPANE FUEL SYSTEM COMPONENTS.

To relieve propane fuel system pressure:

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

RESIDUAL VAPOR PRESSURE WILL BE PRESENT IN THE FUEL SYSTEM. ENSURE THE WORK AREA IS WELL VENTILATED BEFORE DISCONNECTING ANY FUEL LINE.

7.7 SUPPLEMENTAL INFORMATION ONLY APPLICABLE TO CE MACHINES

The following information is provided in accordance with the requirements of the European Machinery Directive 2006/42/EC.

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

The 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 106 dB(A) for machines equipped with Stage IIIA engines and 112 dB(A) for machines equipped with Stage IIIB engines.

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.

EC Declaration of Conformity

Manufacturer:

JLG Industries, Inc.

Address:

1 JLG Drive 1McConnellsburg, PA 17233 USA

Technical File:

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

Contact / Position:

Director of Engineering Europe

Date / Place:

Hoofddorp, Netherlands

Machine Type:	Mobile Elevating Work Platform		
Model Type:	800AJ		
Notified Body:	Kuiper Certificering b.v.		
EC-Number:	2842		
Address:	Van Slingelandtstraat 75, 7331 NM Apeldoorn, The Netherlands		
Certificate Number:	KCEC4411		
Reference Standards:	 EN 55011:2009/A1:2010 EN 61000-6-2:2005 EN 60204-1:2018 EN 280:2013+ A1:2015 EN ISO 12100:2010 		
JLG Industries Inc. hereby declares that the above mentioned machine conforms with the requirements of:			

- 2006/42/EC Machinery Directive
- · 2014/30/EU EMC Directive
- 2014/53/EU RED Directive (If fitted with optional equipment)
- 2000/14/EC Outdoor Noise Directive

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

SECTION 8. INSPECTION AND REPAIR LOG

Machine Serial Number_____

Table 8-1. **Inspection and Repair Log** Date Comments

SECTION 8 - INSPECTION AND REPAIR LOG

Table 8-1.

Inspection and Repair Log

Date	Comments



An Oshkosh Corporation Company

Corporate Office JLG Industries, Inc. 1 JLG Drive McConnellsburg, PA 17233-9533 USA (717) 485-5161 (Corporate) (877) 554-5438 (Customer Support) (717) 485-6417

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