



An Oshkosh Corporation Company

Operation and Safety Manual

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

Boom Lift Models

18RS



3121283
April 29, 2013

FOREWORD

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.

SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS



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

DANGER

INDICATES AN IMMINENTLY HAZARDOUS SITUATION. IF NOT AVOIDED, WILL RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE A RED BACKGROUND.

WARNING

INDICATES A POTENTIALLY HAZARDOUS SITUATION. IF NOT AVOIDED, COULD RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE AN ORANGE BACKGROUND.

CAUTION

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

NOTICE

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

⚠ WARNING

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

NOTICE

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

NOTICE

JLG INDUSTRIES, INC. MUST BE NOTIFIED IMMEDIATELY IN ALL INSTANCES WHERE JLG PRODUCTS HAVE BEEN INVOLVED IN AN ACCIDENT INVOLVING BODILY INJURY OR DEATH OF PERSONNEL OR WHEN SUBSTANTIAL DAMAGE HAS OCCURRED TO PERSONAL PROPERTY OR THE JLG PRODUCT.

For:

- Accident Reporting
- Product Safety Publications
- Current Owner Updates
- Questions Regarding Product Safety
- Standards and Regulations Compliance Information
- Questions Regarding Special Product Applications
- Questions Regarding Product Modifications

Contact:

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

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

In USA:

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

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REVISION LOG

Original Issue

- April 29, 2013

SECTION - PARAGRAPH, SUBJECT	PAGE	SECTION - PARAGRAPH, SUBJECT	PAGE
SECTION - 1 - SAFETY PRECAUTIONS		General	2-8
1.1 GENERAL	1-1	SECTION - 3 - MACHINE CONTROLS AND INDICATORS	
1.2 PRE-OPERATION	1-1	3.1 GENERAL	3-1
Operator Training and Knowledge	1-1	3.2 CONTROLS AND INDICATORS	3-1
Workplace Inspection	1-2	Ground Control Station	3-2
Machine Inspection	1-2	Ground Control Indicator Panel	3-5
1.3 OPERATION	1-3	Platform Station	3-7
General	1-3	Platform Control Indicator Panel	3-10
Trip and Fall Hazards	1-3		
Electrocution Hazards	1-4	SECTION - 4 - MACHINE OPERATION	
Tipping Hazards	1-6	4.1 DESCRIPTION	4-1
Crushing and Collision Hazards	1-7	4.2 BOOM OPERATING CHARACTERISTICS AND LIMITATIONS	4-2
1.4 TOWING, LIFTING, AND HAULING	1-8	Capacities	4-2
1.5 ADDITIONAL HAZARDS / SAFETY	1-9	Stability	4-2
		4.3 ENGINE OPERATION	4-5
SECTION - 2 - USER RESPONSIBILITIES, MACHINE PREPA- RATION, AND INSPECTION		Starting Procedure	4-5
2.1 PERSONNEL TRAINING	2-1	Shutdown Procedure	4-6
Operator Training	2-1	4.3 TRAVELING (DRIVING)	4-7
Training Supervision	2-1	Traveling Forward and Reverse	4-9
Operator Responsibility	2-1	4.4 STEERING	4-10
2.2 PREPARATION, INSPECTION, AND MAINTENANCE	2-2	4.5 PLATFORM	4-10
Pre-Start Inspection	2-4	Platform Level Adjustment	4-10
Function Check	2-5	Platform Rotation	4-10

TABLE OF CONTENTS

SECTION - PARAGRAPH, SUBJECT	PAGE	SECTION - PARAGRAPH, SUBJECT	PAGE
4.6 BOOM	4-10	DATA.	6-1
Swinging the Boom	4-11	Operating Specifications	6-1
Raising and Lowering the Main Boom	4-11	Dimensional Data	6-2
Telescoping the Main Boom	4-11	Capacities	6-2
4.7 FUNCTION SPEED CONTROL	4-11	Tires	6-3
4.8 SHUT DOWN AND PARK	4-12	Engine Data	6-3
Shut Down and Park	4-12	Hydraulic Oil	6-4
4.9 LIFTING AND TIE DOWN.	4-12	Major Component Weights.	6-7
Lifting	4-12	6.3 OPERATOR MAINTENANCE	6-9
Tie Down	4-12	6.4 TIRES & WHEELS	6-16
4.10 EMERGENCY TOWING PROCEDURES	4-14	Tire Replacement	6-16
		Wheel and Tire Replacement	6-16
		Wheel Installation	6-16
		6.5 SUPPLEMENTAL INFORMATION	6-18
SECTION - 5 - EMERGENCY PROCEDURES			
5.1 GENERAL	5-1		
5.2 INCIDENT NOTIFICATION.	5-1		
5.3 EMERGENCY OPERATION.	5-1		
Operator Unable to Control Machine	5-1		
Platform or Boom Caught Overhead.	5-2		
5.4 EMERGENCY TOWING PROCEDURES	5-2		
		SECTION - 7 - INSPECTION AND REPAIR LOG	
SECTION - 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE			
6.1 INTRODUCTION	6-1		
6.2 OPERATING SPECIFICATIONS AND PERFORMANCE			

SECTION - PARAGRAPH, SUBJECT	PAGE	SECTION - PARAGRAPH, SUBJECT	PAGE
LIST OF FIGURES		LIST OF TABLES	
2-1. Machine Nomenclature	2-6	1-1 Minimum Approach Distances (M.A.D.)	1-5
2-2. Daily Walk-Around Inspection Diagram.	2-7	1-2 Beaufort Scale (For Reference Only)	1-10
2-3. Daily Walk-Around Inspection Points - Sheet 1 of 22-8		2-1 Inspection and Maintenance Table.	2-3
2-4. Daily Walk-Around Inspection Points - Sheet 2 of 22-9		6-1 Operating Specifications.	6-1
3-1. Ground Control Station	3-3	6-2 Dimensional Data	6-2
3-2. Ground Control Indicator Panel.	3-6	6-3 Capacities	6-2
3-3. Platform Control Console.	3-8	6-4 Tires.	6-3
3-4. Platform Light Panel.	3-11	6-5 Deutz D2011	6-3
4-1. Position of Least Forward Stability	4-3	6-6 Hydraulic Oil	6-4
4-2. Position of Least Backward Stability	4-4	6-7 Critical Stability Weights	6-7
4-3. Grade and Side Slopes	4-8	6-8 Lubrication Specifications.	6-9
4-4. Lifting and Tie Down Chart	4-13	6-9 Wheel Torque Chart	6-17
4-5. Drive Disconnect Hub	4-14	7-1 Inspection and Repair Log	7-1
4-6. Decal Location Sheet 1 of 6.	4-15		
4-7. Decal Location Sheet 2 of 6.	4-16		
4-8. Decal Location Sheet 3 of 6.	4-17		
4-9. Decal Location Sheet 3 of 6.	4-18		
4-10. Decal Location Sheet 4 of 6.	4-19		
4-11. Decal Location Sheet 5 of 6.	4-20		
4-12. Decal Location Sheet 6 of 6.	4-21		
6-1. Engine Oil Operating Temperature Specifications .6-5			
6-2. Hydraulic Oil Operating Temperature Specifications	6-6		
6-3. Operator Maintenance and Lubrication Diagram . .6-8			

TABLE OF CONTENTS

SECTION - PARAGRAPH, SUBJECT	PAGE	SECTION - PARAGRAPH, SUBJECT	PAGE
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SECTION 1. SAFETY PRECAUTIONS

1.1 GENERAL

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

The owner/user/operator/lessor/lessee of the machine shall not operate the machine 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.

If there are any questions with regard to safety, training, inspection, maintenance, application, and operation, please contact JLG Industries, Inc. ("JLG").

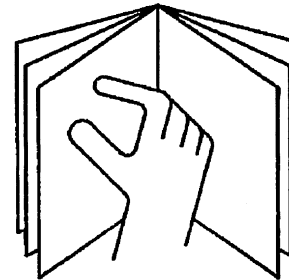
WARNING

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

1.2 PRE-OPERATION

Operator Training and Knowledge

- Read and understand this manual before operating the machine.



- Do not operate this machine until complete training is performed by authorized persons.
- Only authorized and qualified personnel can operate the machine.

SECTION 1 - SAFETY PRECAUTIONS

- Read, understand, and obey all DANGERS, WARNINGS, CAUTIONS, and operating instructions on the machine and in this manual.
- Use the machine in a manner which is within the scope of its intended application set by JLG.
- All operating personnel must be familiar with the emergency controls and emergency operation of the machine as specified in this manual.
- Read, understand, and obey all applicable employer, local, and governmental regulations as they pertain to operation of the machine.

Workplace Inspection

- The operator is to take safety measures to avoid all hazards in the work area prior to machine operation.
- Do not operate or raise the platform while on trucks, trailers, railway cars, floating vessels, scaffolds or other equipment unless approved in writing by JLG.
- Do not operate the machine in hazardous environments unless approved for that purpose by JLG.
- Be sure that the ground conditions are able to support the maximum load shown on the decals located on the machine.

Machine Inspection

- Before machine operation, perform inspections and functional checks. Refer to Section 2 of this manual for detailed instructions.
- Do not operate this machine until it has been serviced and maintained according to requirements specified in the Service and Maintenance Manual.
- Be sure the footswitch and all other safety devices are operating properly. Modification of these devices is a safety violation.

WARNING

MODIFICATION OR ALTERATION OF AN AERIAL WORK PLATFORM SHALL BE MADE ONLY WITH WRITTEN PERMISSION FROM THE MANUFACTURER

- Do not operate any machine on which safety or instruction placards or decals are missing or illegible.
- Avoid any buildup of debris on the platform floor. Keep mud, oil, grease, and other slippery substances from footwear and platform floor.

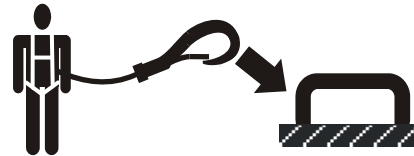
1.3 OPERATION

General

- Do not use the machine for any purpose other than positioning personnel, their tools, and equipment.
 - Never operate a machine that is not working properly. If a malfunction occurs, shut down the machine.
 - 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. Contact JLG for approved material handling accessories.
 - 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.
- Supplies or tools which extend outside the platform are prohibited unless approved by JLG.
 - 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, pulling, or by using boom functions. Only pull the unit from the tie-down lugs on the chassis.
 - Do not place boom or platform against any structure to steady the platform or to support the structure.
 - Stow boom and shut off all power before leaving machine.

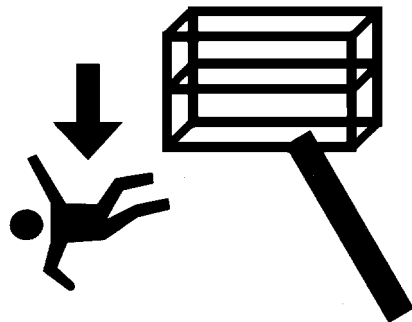
Trip and Fall Hazards

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.



SECTION 1 - SAFETY PRECAUTIONS

- Before operating the machine, make sure all gates are closed and fastened in their proper position.

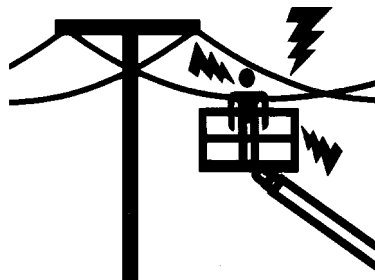


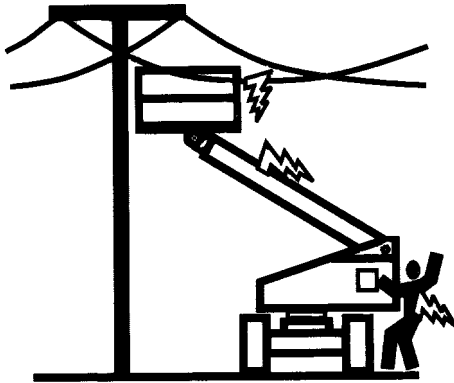
- Keep both feet firmly positioned on the platform floor at all times. Never use ladders, boxes, steps, planks, or similar items on platform to provide additional reach.
- Never use the boom assembly to enter or leave the platform.

- Use extreme caution when entering or leaving platform. Be sure that the boom is fully lowered. It may be necessary to telescope out to position the platform closer to the ground for entry/exit. Face the machine, maintain “three point contact” with the machine, using two hands and one foot or two feet and one hand during entry and exit.

Electrocution Hazards

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





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

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

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

SECTION 1 - SAFETY PRECAUTIONS

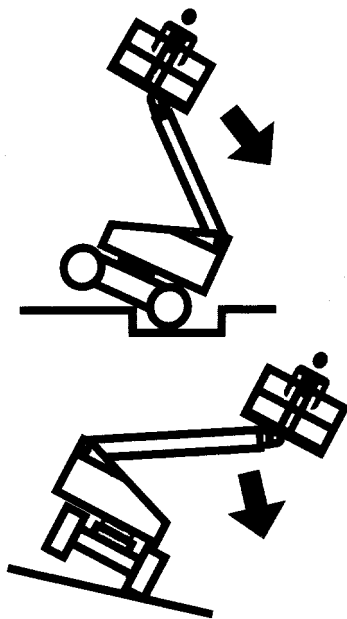
- The minimum approach distance may be reduced if insulating barriers are installed to prevent contact, and the barriers are rated for the voltage of the line being guarded. These barriers shall not be part of (or attached to) the machine. The minimum approach distance shall be reduced to a distance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

DANGER

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

Tipping Hazards

- The user must be familiar with the surface before driving. Do not exceed the allowable sideslope and grade while driving.

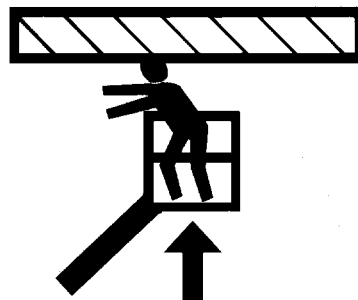


- Do not elevate platform or drive with platform elevated while on a sloping, uneven, or soft surface.
- Before driving on floors, bridges, trucks, and other surfaces, check allowable capacity of the surfaces.
- Never exceed the maximum platform capacity. Distribute loads evenly on platform floor.
- Do not raise the platform or drive from an elevated position unless the machine is on firm, level and smooth surfaces.
- Keep the chassis of the machine at least 2 ft. (0.6 m) from holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards on the floor/surface.
- 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.
- Do not elevate the machine when wind conditions exceed 28 mph (12.5 m/s). Refer to Table 1-2, Beaufort Scale (For Reference Only).
- Do not increase the surface area of the platform or the load. Increase of the area exposed to the wind will decrease stability.
- Do not increase the platform size with unauthorized deck extensions or attachments.

- If boom assembly or platform is in a position that one or more wheels are off the ground, all persons must be removed before attempting to stabilize the machine. Use cranes, forklift trucks, or other appropriate equipment to stabilize machine.

Crushing and Collision Hazards

- Approved head gear must be worn by all operating and ground personnel.
- Check work area for clearances overhead, on sides, and bottom of platform when lifting or lowering platform, and driving.



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

SECTION 1 - SAFETY PRECAUTIONS

- 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 driving and swing operations.
- Limit travel speed according to conditions of ground surface, congestion, visibility, slope, location of personnel, and other factors which may cause collision or injury to personnel.
- Be aware of stopping distances in all drive speeds. When driving in high speed, switch to low speed before stopping. Travel grades in low speed only.
- Do not use high speed drive in restricted or close quarters or when driving in reverse.
- Exercise extreme caution at all times to prevent obstacles from striking or interfering with operating controls and persons in the platform.
- Be sure that operators of other overhead and floor level machines are aware of the aerial work platform's presence. Disconnect power to overhead cranes.
- 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 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 ADDITIONAL HAZARDS / SAFETY

- 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.
- Battery fluid is highly corrosive. Avoid contact with skin and clothing at all times.
- Charge batteries only in a well ventilated area.

SECTION 1 - SAFETY PRECAUTIONS

NOTICE

DO NOT OPERATE THE MACHINE WHEN WIND CONDITIONS EXCEED 28 MPH (12.5 M/S).

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

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

SECTION 2. USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

2.1 PERSONNEL TRAINING

The aerial platform is a personnel handling device; so it is necessary that it be operated and maintained only by trained personnel.

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.

Operator Training

Operator training must cover:

1. Use and limitations of the controls in the platform and at the ground, emergency controls and safety systems.
2. Control labels, instructions, and warnings on the machine.
3. Rules of the employer and government regulations.
4. Use of approved fall protection device.
5. Enough knowledge of the mechanical operation of the machine to recognize a malfunction or potential malfunction.
6. The safest means to operate the machine where overhead obstructions, other moving equipment, and obstacles, depressions, holes, or dropoffs exist.
7. Means to avoid the hazards of unprotected electrical conductors.
8. Specific job requirements or machine application.

Training Supervision

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

Operator Responsibility

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

2.2 PREPARATION, INSPECTION, AND MAINTENANCE

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

NOTICE

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

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

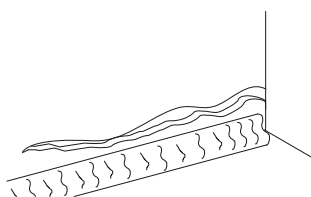
Table 2-1. Inspection and Maintenance Table

Type	Frequency	Primary Responsibility	Service Qualification	Reference
Pre-Start Inspection	Before using each day; or whenever there's an Operator change.	User or Operator	User or Operator	Operator 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	In service for 3 months or 150 hours, whichever comes first; or Out of service for a period of more than 3 months; or Purchased used.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual and applicable JLG inspection form
Annual Machine Inspection	Annually, no later than 13 months from the date of prior inspection.	Owner, Dealer, or User	Factory-Trained Service Technician (Recommended)	Service and Maintenance Manual and applicable JLG inspection form
Preventative Maintenance	At intervals as specified in the Service and Maintenance Manual.	Owner, Dealer, or User	Qualified JLG Mechanic	Service and Maintenance Manual
NOTE: Inspection forms are available from JLG. Use the Service and Maintenance Manual to perform inspections.				

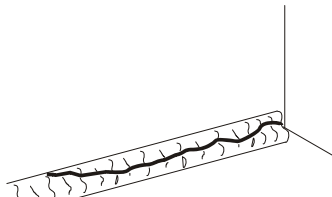
Pre-Start Inspection

The Pre-Start Inspection shall 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. **Operation and Safety Manuals** – Make sure a copy of the Operator and Safety Manual, AEM Safety Manual (Domestic only), and ANSI Manual of Responsibilities

(Domestic only) is enclosed in the weather resistant storage container.

5. **“Walk-Around” Inspection** – Refer to Figure 2-2. thru Figure 2-4.
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. **Function Check** – Once the “Walk-Around” Inspection is complete, perform a functional check of all systems in an area free of overhead and ground level obstructions. Refer to Section 4 for more specific instructions.

WARNING

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

Function Check

Perform the Function Check as follows:

1. From the ground control panel with no load in the platform:
 - a. Check that all guards protecting the switches or locks are in place;
 - b. Operate all functions and ensure proper operation;
 - c. Check manual descent;
 - d. Ensure that all machine functions are disabled when the Emergency Stop Button is activated.
2. From the platform control console:
 - a. Ensure that the control console is firmly secured in the proper location;
 - b. Check that all guards protecting the switches or locks are in place;
 - c. Operate all functions and ensure proper operation;
 - d. Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
3. With the platform in the transport (stowed) position:
 - a. Drive the machine on a grade, not to exceed the rated gradeability, and stop to ensure the brakes hold;
 - b. Check the tilt sensor alarm to ensure proper operation.

NOTE: *When the tilt sensor alarm is activated the Drive function will be disabled if the boom is elevated above horizontal.*

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

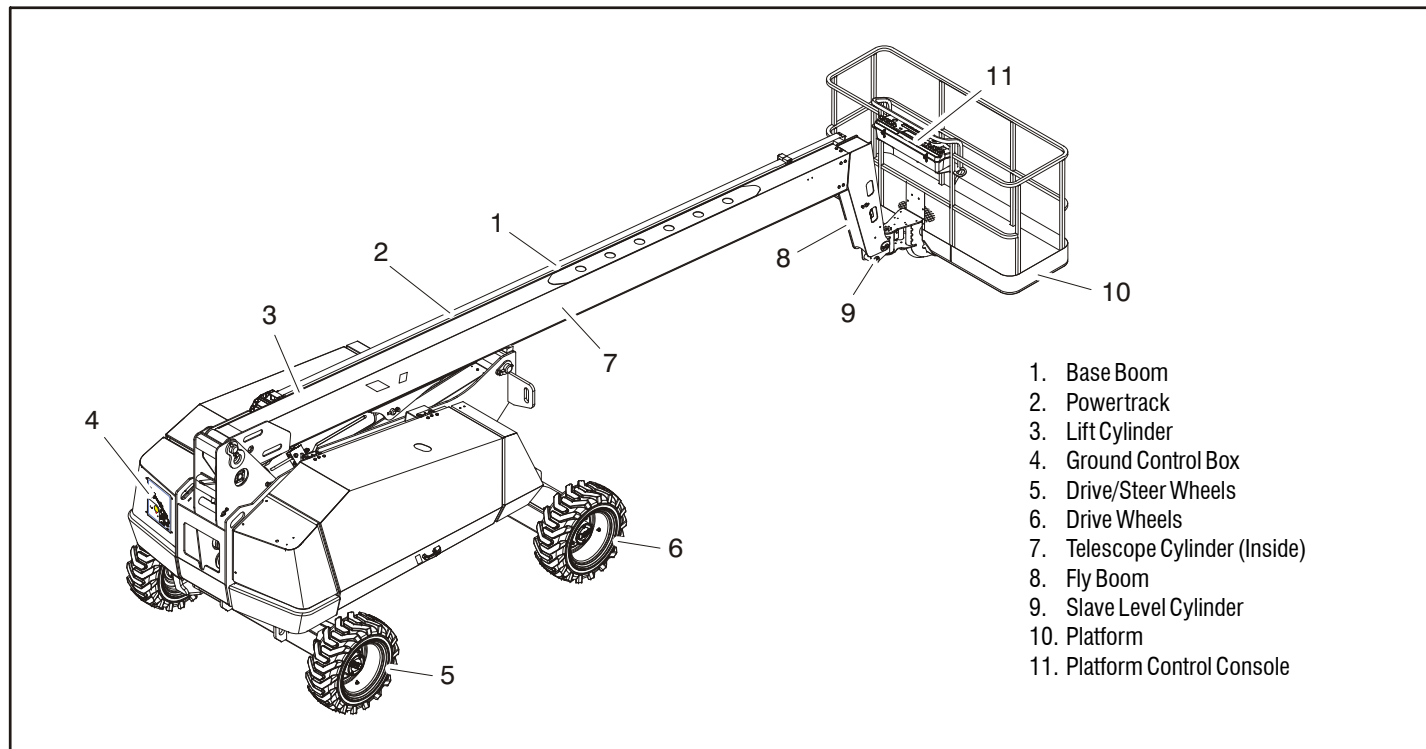


Figure 2-1. Machine Nomenclature

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

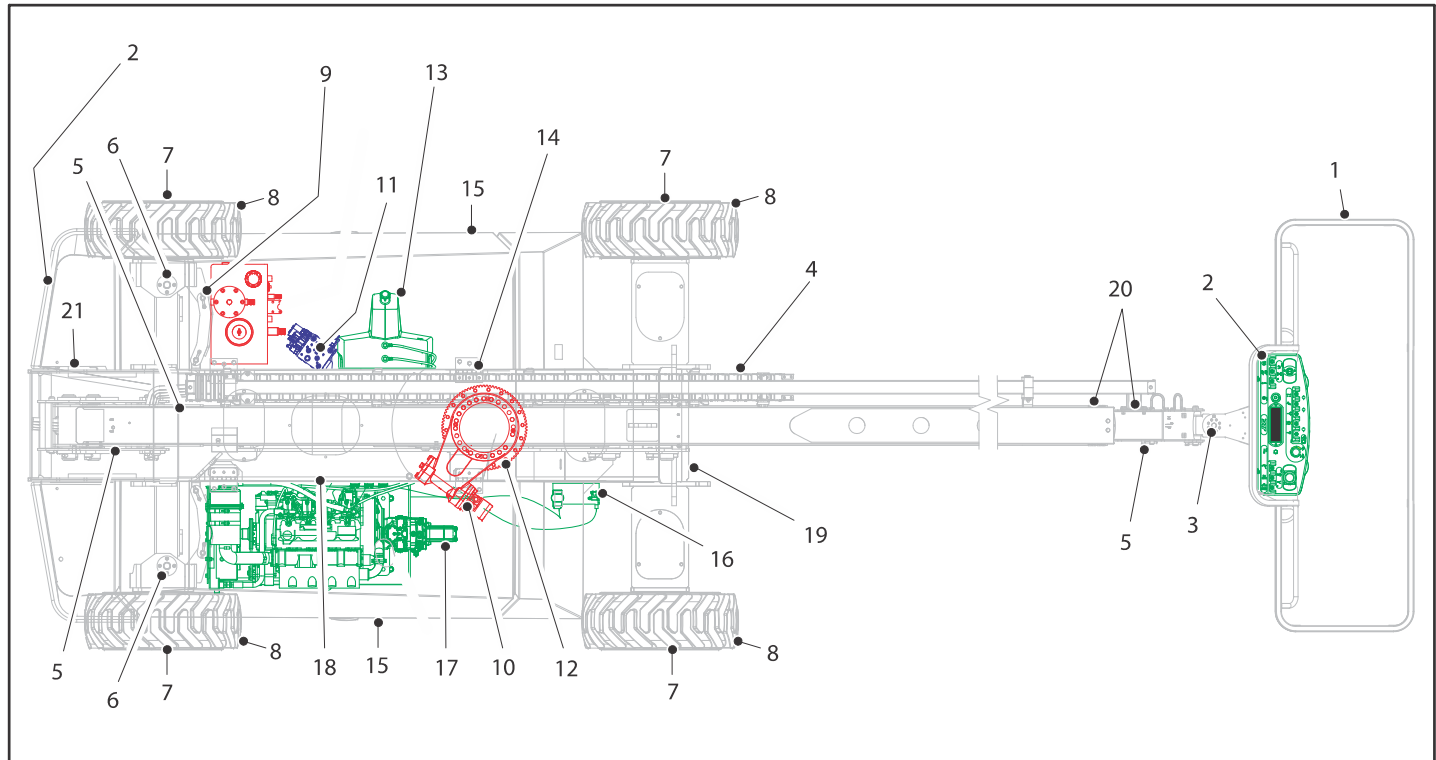


Figure 2-2. Daily Walk-Around Inspection Diagram

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

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.

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. Latch and hinges in working condition.
2. **Platform & Ground Control Consoles** - Switches and levers return to neutral, decals/placards secure and legible, control markings legible.
3. **Rotator** - See Inspection Note.
4. **Power Track** - See Inspection Note.
5. **All Hydraulic Cylinders** - See Inspection Note.
6. **King Pins** - Evidence of proper lubrication.
7. **Drive Motor, Brake, and Hub** - See Inspection Note.

Figure 2-3. Daily Walk-Around Inspection Points - Sheet 1 of 2

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

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. **Tie Rod and Steering Linkage** - See Inspection Note.
10. **Swing Motor and Worm Gear** - No evidence of damage. See Inspection Note.
11. **Main Control Valve** - See Inspection Note.
12. **Turntable Bearing** - Evidence of proper lubrication. No evidence of loose bolts or looseness between bearing and structure.
13. **Fuel Tank** - See Inspection Note.
14. **Fuel Filter (Optional)** - See Inspection Note.
15. **Hood Assemblies** - See Inspection Note.
16. **Battery** - Proper electrolyte levels if adjustable; cables tight, no visible damage or corrosion.
17. **Hydraulic Pump** - See Inspection Note.
18. **Turntable** - See Inspection Note.
19. **Frame** - See Inspection Note.
20. **Main Boom Sections** - See Inspection Note.
21. **Tower Boom** - See Inspection Note.

Figure 2-4. Daily Walk-Around Inspection Points - Sheet 2 of 2

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

 **NOTES:**

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SECTION 3. MACHINE CONTROLS AND INDICATORS

3.1 GENERAL

NOTICE

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

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

3.2 CONTROLS AND INDICATORS

NOTE: All machines are equipped with control panels that use symbols to indicate control functions. On ANSI machines refer to decal located on the control box guard in front of the control box or by the ground controls for these symbols and the corresponding functions.

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



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



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



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

Ground Control Station

(See Figure 3-1., Ground Control Station)

⚠ 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 POSITION WHEN RELEASED.

NOTE: The Function Enable switch must be held down in order to operate Main Boom Telescope, Swing, Main Lift, Platform Level Override, and Platform Rotate functions.



1. Indicator Panel

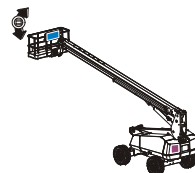
The Indicator Panel contains indicator lights that signal problem conditions or functions operating during machine operation.

⚠ WARNING

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

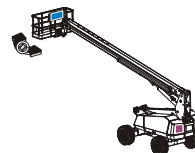
2. Platform Leveling Override

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.



3. Platform Rotate

Provides rotation of the platform.



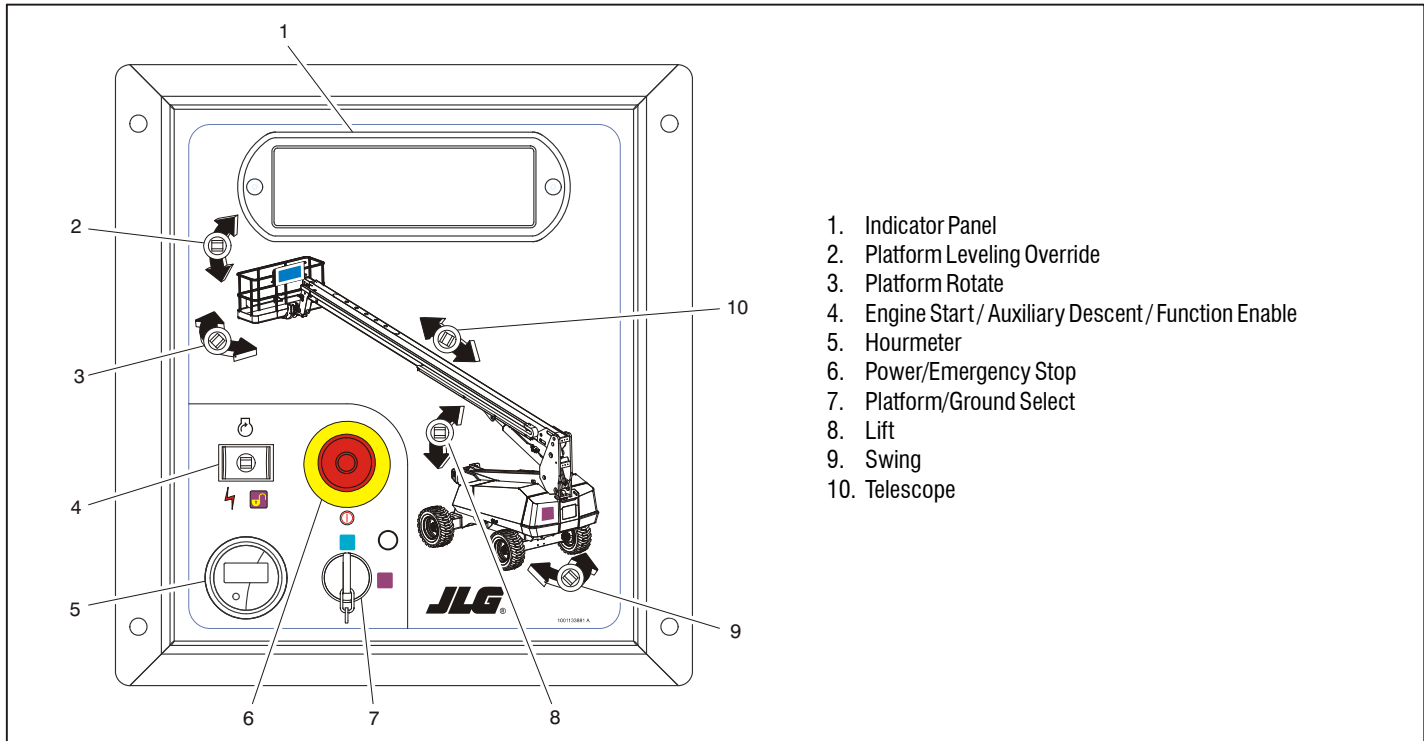


Figure 3-1. Ground Control Station

SECTION 3 - MACHINE CONTROLS AND INDICATORS

4. Engine Start/ Auxiliary Descent /Function Enable

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



To use auxiliary descent, the switch must be held "DOWN" for duration of Lift Down Operation.



When the engine is running, the switch must be held "DOWN" to enable all boom controls.



CAUTION

WHEN THE MACHINE IS SHUT DOWN THE POWER/EMERGENCY STOP SWITCH MUST BE POSITIONED TO THE OFF POSITION TO PREVENT DRAINING THE BATTERIES.

5. Hourmeter

Registers the amount of time the machine has been in use, with engine running. In the event of a fault, the hourmeter also displays the three digit fault code. Refer to the Service Manual for a listing of fault codes. Additionally, there is a small, red indicator light that will blink when there is a fault on the machine to draw operator attention to the display,



6. 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.



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. The key is removable in the platform position on CE specification machines. The key must be available to ground personnel in the event of an emergency.

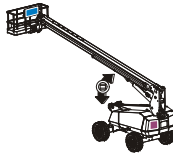
7. Platform/Ground Select Switch

A three position, key operated switch supplies power to the platform control console when positioned to Platform. With the switch key positioned in the Ground position, power is shut off to platform and only ground controls are operable.



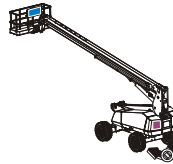
8. Lift Control

Provides raising and lowering of the boom.



9. Swing Control

Provides 359 degrees non-continuous turntable rotation.



10. Telescope Control

Provides extension and retraction of the boom.



2. Low Engine Oil Pressure Indicator

Indicates that engine oil pressure is below normal and service is required.



3. High Engine Coolant Temperature Indicator

Indicates that engine coolant temperature is abnormally high and service is required.



4. 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.



5. Glow Plug Indicator

Indicates glow plugs are on. The glow plugs are automatically turned on with the ignition circuit and remain on for approximately about seven seconds. Start the engine only after the light goes out.



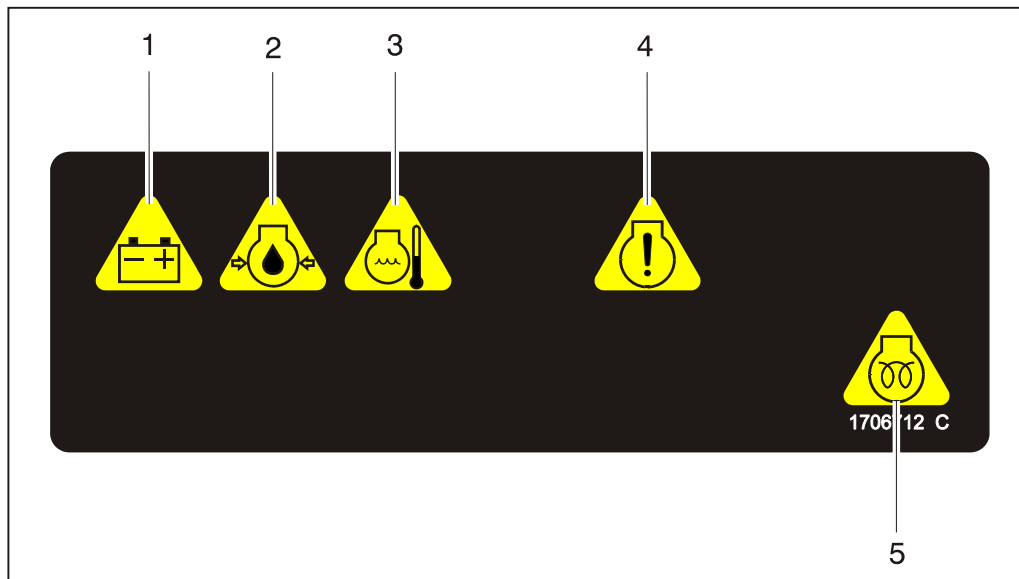
Ground Control Indicator Panel

(See Figure 3-2.)

1. Battery Malfunction Indicator

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





- | | |
|-------------------------|--------------------|
| 1. Battery Malfunction | 4. System Distress |
| 2. Engine Oil Pressure | 5. Glow Plug |
| 3. Engine Coolant Temp. | |

Figure 3-2. Ground Control Indicator Panel

Platform Station

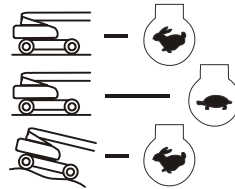
(See Figure 3-3., Platform Control Console)

⚠ 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 position allows the machine to be driven as quietly as possible.



⚠ WARNING

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

2. 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.



3. Horn

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

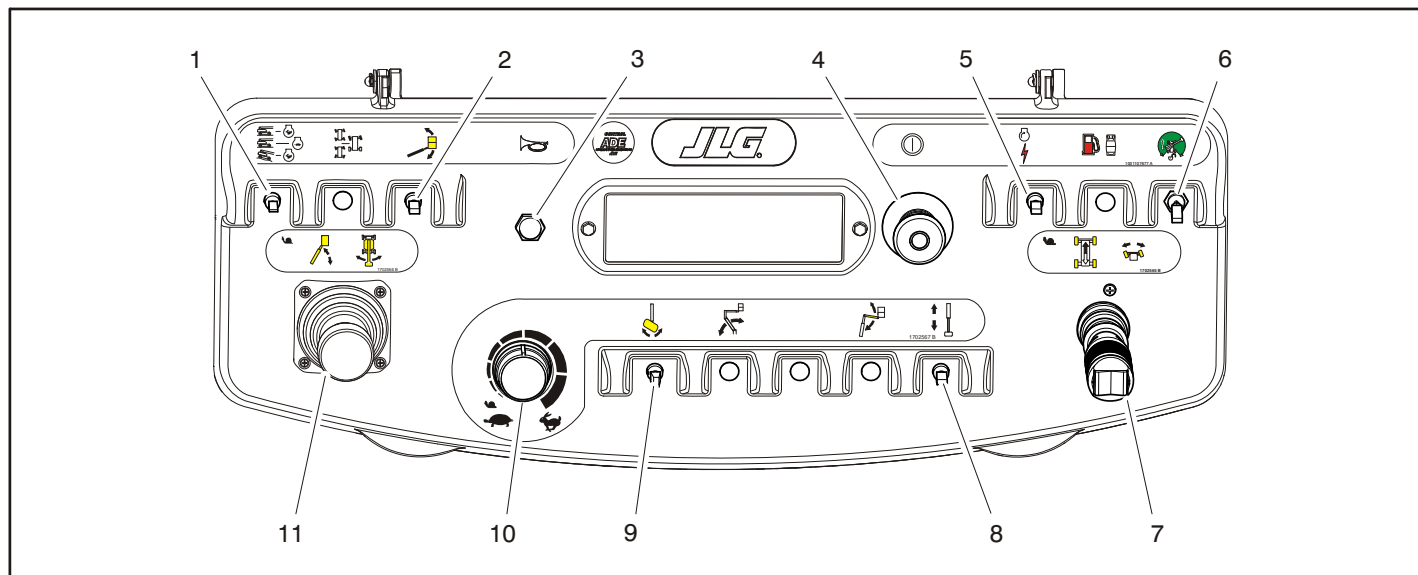


4. Power/Emergency Stop Switch

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.



SECTION 3 - MACHINE CONTROLS AND INDICATORS



- | | | |
|-------------------------------|-----------------------------------|--------------------------------|
| 1. Drive Speed/Torque Select | 5. Start/Auxiliary Descent Enable | 9. Platform Rotate |
| 2. Platform Leveling Override | 6. Drive Orientation Override | 10. Function Speed Control |
| 3. Horn | 7. Drive/Steer | 11. Main Lift/Swing Controller |
| 4. Power/Emergency Stop | 8. Telescope | |

Figure 3-3. Platform Control Console

SECTION 3 - MACHINE CONTROLS AND INDICATORS

5. Start/Auxiliary Descent Enable

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



When pushed back, it energizes Auxiliary Descent Enable which allows the boom to be lowered in the event of engine malfunction. Gravity is used to control valves and lower the boom.

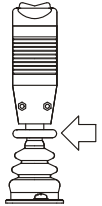


6. Drive Orientation Override

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.



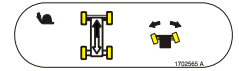
NOTE: To operate the Drive joystick, pull up on the locking ring below the handle.



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

7. 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.



8. Telescope

Provides extension and retraction of the main boom.



9. Platform Rotate

Provides rotation of the platform when positioned to the right or left.



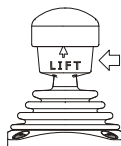
SECTION 3 - MACHINE CONTROLS AND INDICATORS

10. Function Speed Control

This control affects the speed of telescope. Turning the knob all the way counterclockwise until it clicks puts drive, tower lift and swing into creep mode.



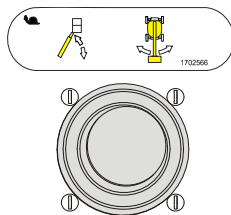
NOTE: To operate the Main Boom Lift/Swing joystick, pull up on the locking ring below the handle.



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

11. 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. Moving the joystick activates switches to provide the functions selected.



Platform Control Indicator Panel

(See Figure 3-4., Platform Light Panel)

1. AC Generator (If Equipped)

Indicates the generator is in operation.



2. Tilt Alarm Warning Light and Alarm

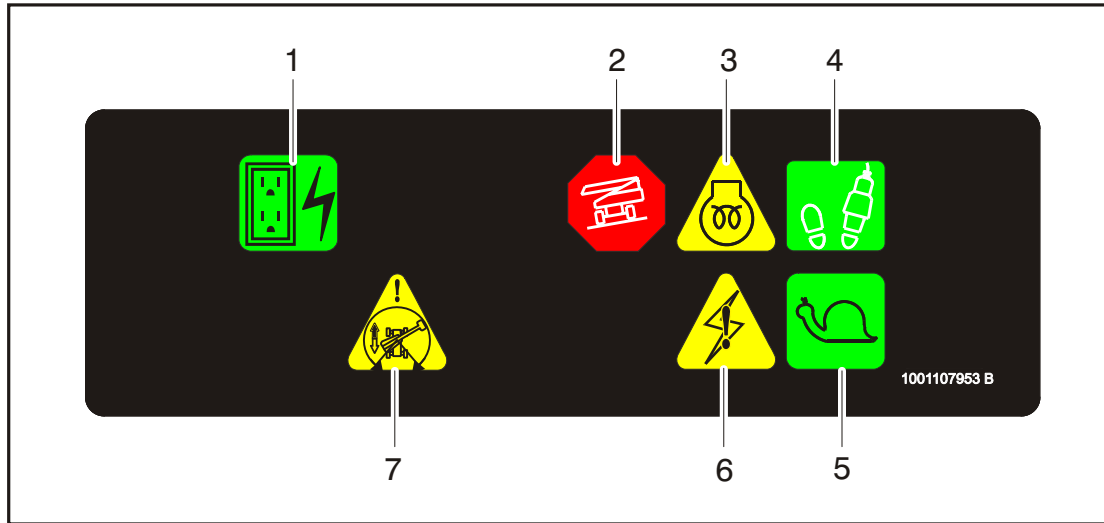
This illuminator indicates that the chassis is on a slope. An alarm will also sound when the chassis is on a slope and the boom is above horizontal. If lit when boom is raised or extended, retract and lower to below horizontal then reposition machine so that it is level before continuing operation. If the boom is above horizontal and the machine is on a slope, the tilt alarm warning light will illuminate and an alarm will sound and CREEP is automatically activated.



NOTE: When the tilt sensor alarm is activated the Drive function will be disabled if the boom is elevated above horizontal.

⚠ WARNING

IF TILT WARNING LIGHT IS ILLUMINATED WHEN BOOM IS RAISED OR EXTENDED, RETRACT AND LOWER TO BELOW HORIZONTAL THEN REPOSITION MACHINE SO THAT IT IS LEVEL BEFORE EXTENDING BOOM OR RAISING BOOM ABOVE HORIZONTAL.



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| 1. AC Generator | 3. Glow Plug/Wait to Start | 6. System Distress |
| 2. Tilt Alarm Warning | 4. Footswitch/Enable | 7. Drive Orientation |
| 5. Creep Speed | | |

Figure 3-4. Platform Light Panel

SECTION 3 - MACHINE CONTROLS AND INDICATORS

3. Glow Plug/Wait to Start Indicator

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



4. 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.



⚠ WARNING

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

⚠ WARNING

FOOTSWITCH MUST BE ADJUSTED IF FUNCTIONS ACTIVATE WHEN SWITCH ONLY OPERATES WITHIN LAST 1/4" OF TRAVEL, TOP OR BOTTOM.

5. 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.



6. 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.



7. 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).



SECTION 3 - MACHINE CONTROLS AND INDICATORS



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SECTION 4. MACHINE OPERATION

4.1 DESCRIPTION

This machine is a self-propelled hydraulic personnel lift equipped with a work platform on the end of an elevating and rotating boom.

The primary operator control station is in the platform. From this control station, the operator can drive and steer the machine in both forward and reverse directions. The operator can raise or lower the boom or swing the boom to the left or right. Standard boom swing is 359 degree non-continuous. The machine has a Ground Control Station which will override the Platform Control Station. Ground Controls operate Boom Lift and Swing, and 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 BOOM OPERATING CHARACTERISTICS AND LIMITATIONS

Capacities

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

1. Machine is positioned on a smooth, firm and level surface.
2. Load is within manufacturers rated design capacity.
3. All machine systems are functioning properly.
4. Machine is as originally equipped from JLG.

Stability

Machine stability is based on two (2) conditions which are called Forward and Backward stability. The machine's position of least Forward stability is shown in Figure 4-1., and its position of least Backward stability is shown in Figure 4-2.



TO AVOID FORWARD OR BACKWARD TIPPING, DO NOT OVERLOAD MACHINE OR OPERATE THE MACHINE ON AN OUT-OF-LEVEL SURFACE.

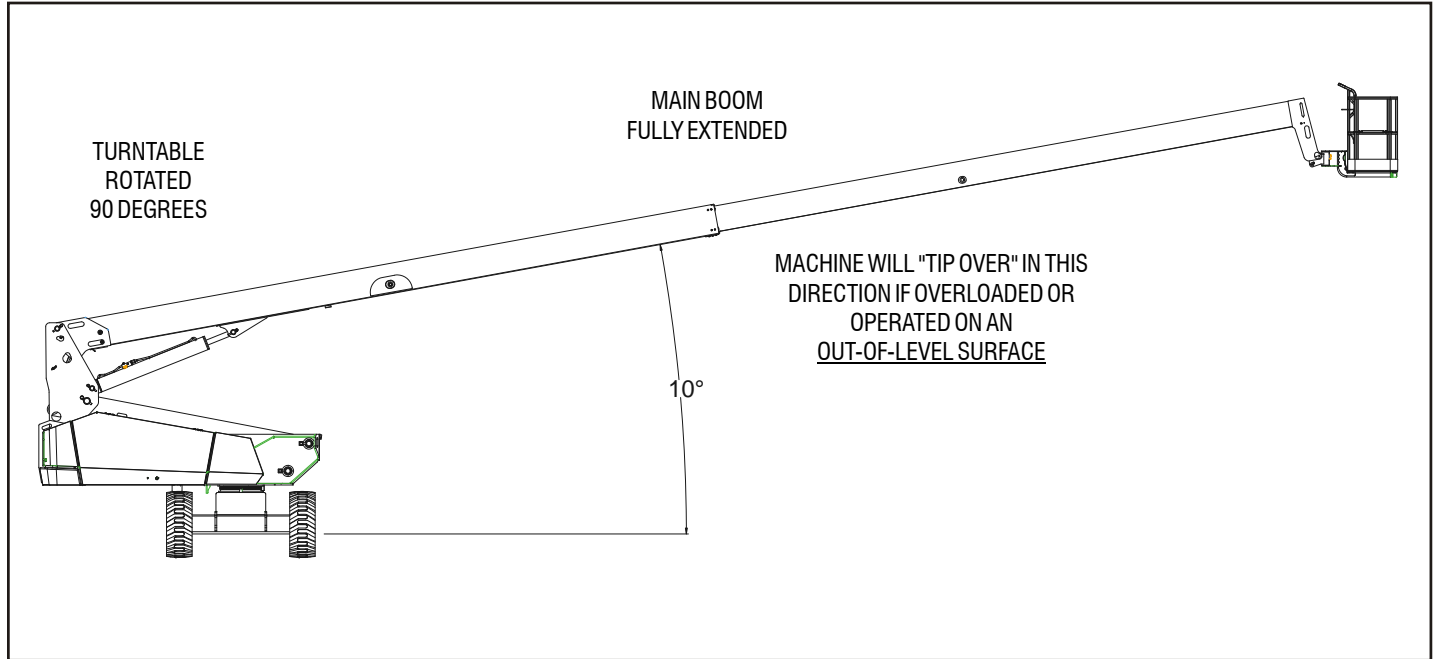


Figure 4-1. Position of Least Forward Stability

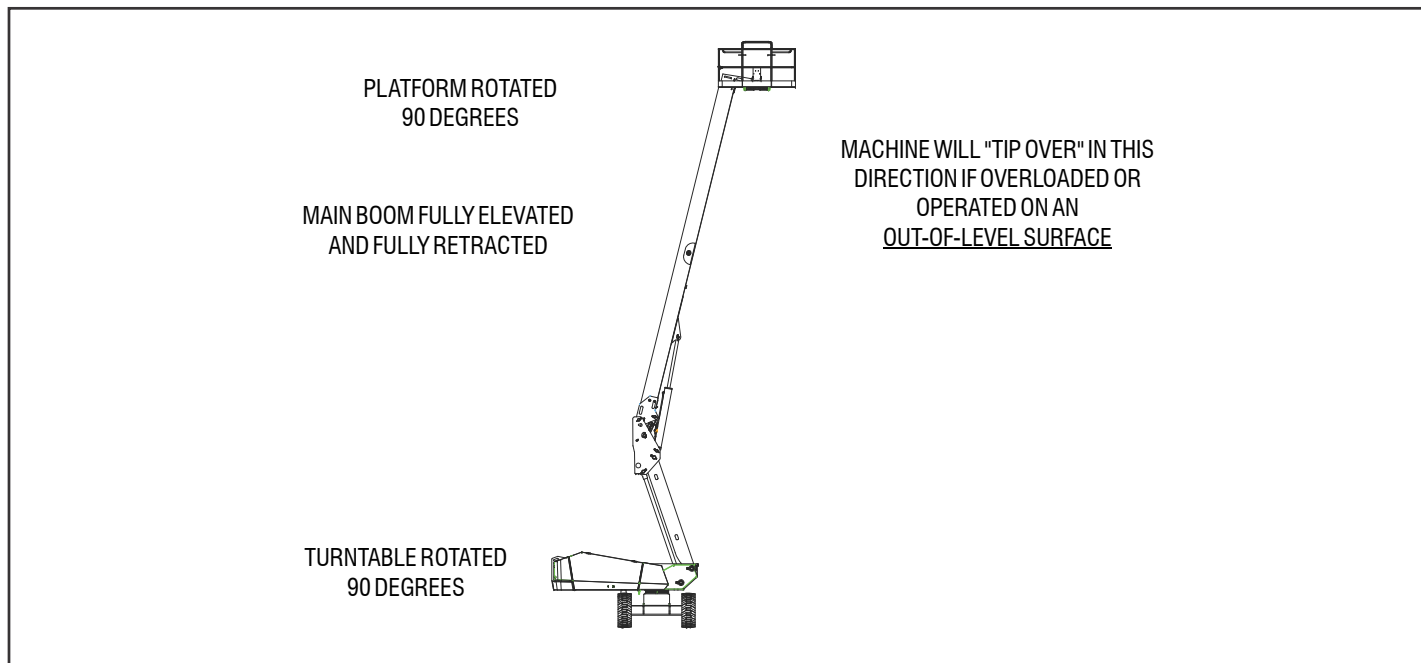
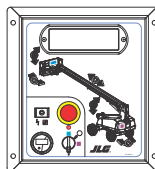


Figure 4-2. Position of Least Backward Stability

4.3 ENGINE OPERATION

NOTE: Initial starting should always be performed from the Ground Control station.



Starting Procedure

CAUTION

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 MINUTES. IF ENGINE FAILS AFTER SEVERAL ATTEMPTS, REFER TO ENGINE MAINTENANCE MANUAL.

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



1. Turn key of Select switch to Ground.



2. Position Power/Emergency Stop switch to On.



3. Push the Engine Start switch until engine starts.



CAUTION

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, shut engine off.



5. Turn Select switch to Platform.



6. From Platform, pull Power/Emergency Stop switch out.



7. Push the Engine Start switch until engine starts.



NOTE: Footswitch must be in released (up) position before starter will operate. If starter operates with footswitch in the depressed position, DO NOT OPERATE MACHINE.

Shutdown Procedure

CAUTION

IF AN ENGINE MALFUNCTION CAUSES AN UNSCHEDULED SHUT-DOWN, 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.



3. Turn Platform/Ground Select switch to Off.

Refer to Engine Manufacturer's manual for detailed information.



4.3 TRAVELING (DRIVING)

See Figure 4-3., Grade and Side Slopes

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.

WARNING

DO NOT DRIVE WITH BOOM OUT OF TRANSPORT MODE EXCEPT ON A SMOOTH, FIRM AND LEVEL SURFACE.

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.

DO NOT DRIVE ON SIDESLOPES WHICH EXCEED 5 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 DIRECTION MATCHING THE DIRECTIONAL ARROWS.

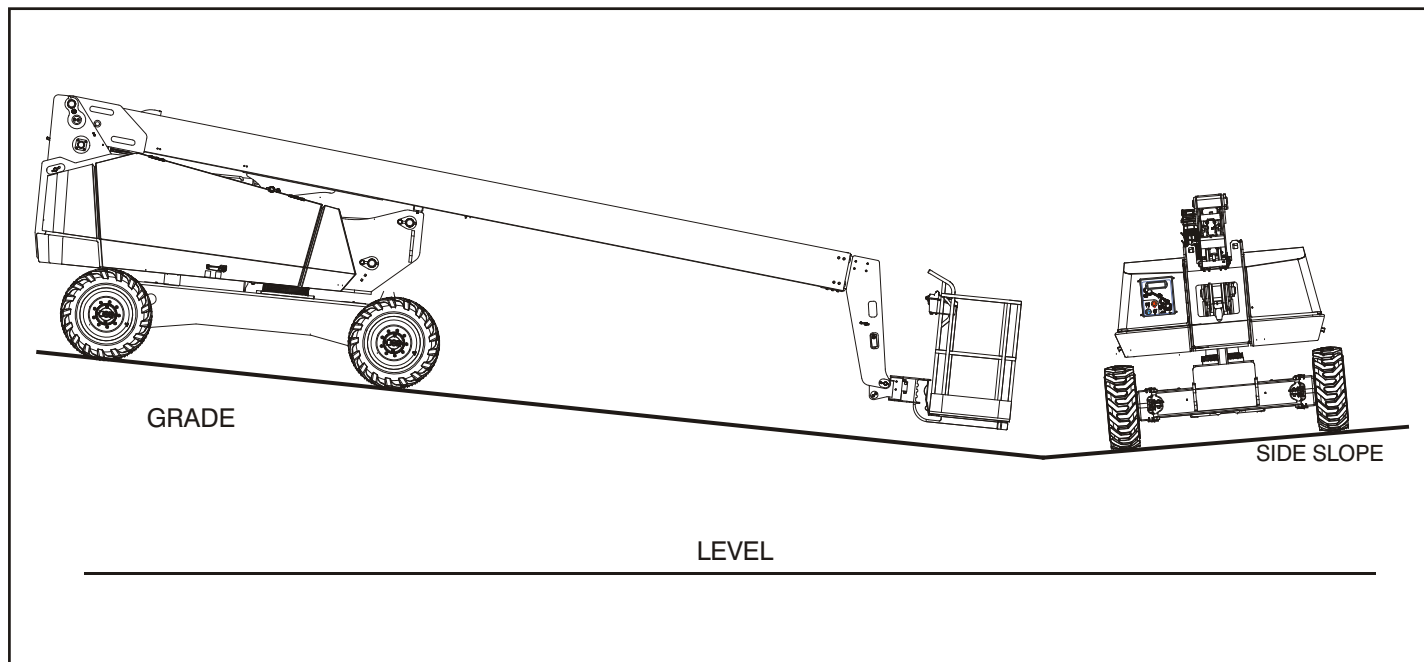


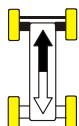
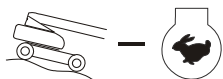
Figure 4-3. Grade and Side Slopes

Traveling Forward and Reverse

NOTICE

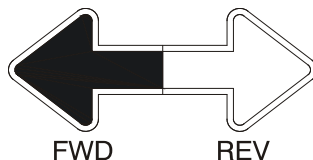
IF WHEEL SLIPPAGE IS EVIDENT WHEN DRIVING ON UNEVEN OR MUDDY TERRAIN, MANUALLY POSITION THE DRIVE SPEED/TORQUE SELECT SWITCH BACK TO THE MAXIMUM TORQUE MODE TO CONTINUE TRAVEL.

1. At Platform Controls, pull out Emergency Stop switch, start engine, and activate foot-switch.
2. Position Drive controller to Forward or Reverse as desired.



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

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



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



4.4 STEERING

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



4.5 PLATFORM

⚠ WARNING

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

Platform Level Adjustment

To manually Level Up or Down - Position the Platform/Level control switch Up or Down and hold until the desired platform position is obtained.



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.



4.6 BOOM

⚠ WARNING

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



DO NOT DEPEND ON TILT ALARM AS A LEVEL INDICATOR FOR THE CHASSIS. TILT ALARM INDICATES CHASSIS IS ON AN EXCESSIVE SLOPE (3 DEGREE OR GREATER ON CE & AUSTRALIA SPEC MACHINES, 5 DEGREE OR GREATER ON ANSI, CSA, & JAPAN SPEC MACHINES). CHASSIS MUST BE LEVEL BEFORE SWINGING, OR RAISING BOOM ABOVE HORIZONTAL OR DRIVING WITH THE BOOM ELEVATED.

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

TRAVELING WITH BOOM BELOW HORIZONTAL IS PERMITTED ON GRADES AND SIDE SLOPES SPECIFIED IN THE OPERATING SPECIFICATIONS SECTION OF THIS MANUAL.

⚠ WARNING

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

⚠ CAUTION

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

Swinging the Boom

To swing boom, use Swing control 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.

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.



4.7 FUNCTION SPEED CONTROL

This control affects the speed of telescope and platform rotate. Turning the knob all the way counterclockwise until it clicks puts drive, main lift and swing into creep mode.



4.8 SHUT DOWN AND PARK

Shut Down and Park

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

1. Drive machine to a reasonably well protected area.
2. Ensure boom is lowered over rear drive 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 position.
5. If necessary, cover Platform Controls to protect instruction placards, warning decals, and operating controls from hostile environment.

4.9 LIFTING AND TIE DOWN

(See Figure 4-4.)

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.
3. Remove all loose items from the machine.
4. Properly adjust the rigging to prevent damage to the machine and so the machine remains level.

Tie Down

NOTICE

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

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

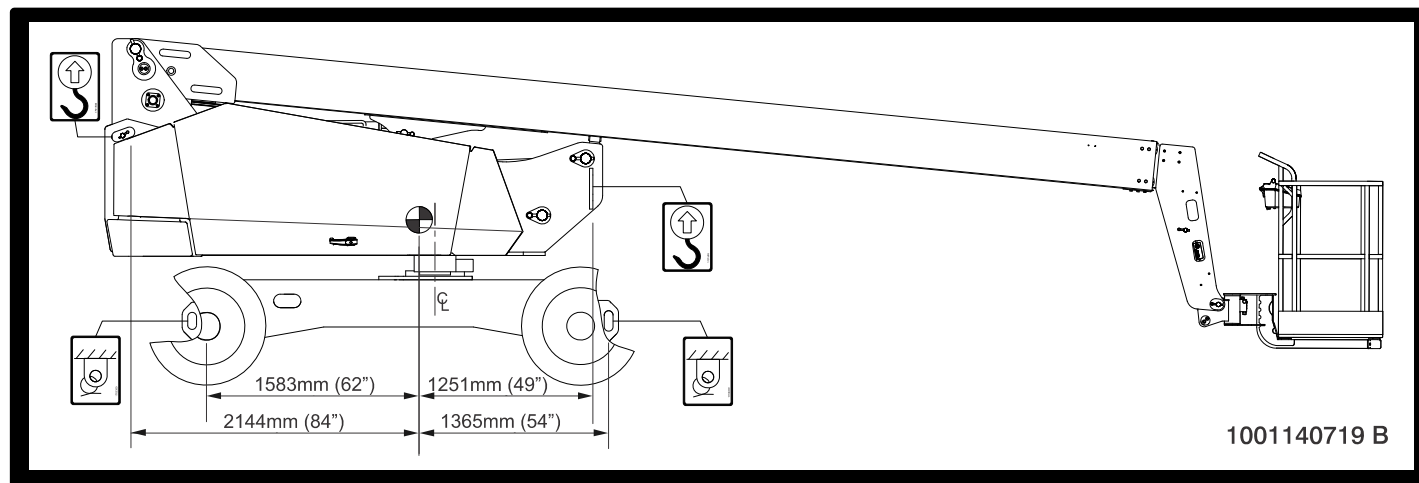


Figure 4-4. Lifting and Tie Down Chart

4.10 EMERGENCY TOWING PROCEDURES

The following procedures are to be used **ONLY** for emergency movement to a suitable maintenance area.

NOTICE

THE ALLOWABLE TOWING SPEED IS 1.9 MPH (3 KPH). THE MAXIMUM ALLOWABLE TOWING DISTANCE IS 0.6 MILES (1 KM).

1. Chock wheels securely.
2. Engage the mechanical release on both drive hubs by loosening, completely reversing, and tightening the two bolts on each hub. Refer to Figure 4-5., Drive Disconnect Hub
3. Connect suitable equipment, remove chocks, and move machine.

After moving machine, complete the following procedure:

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

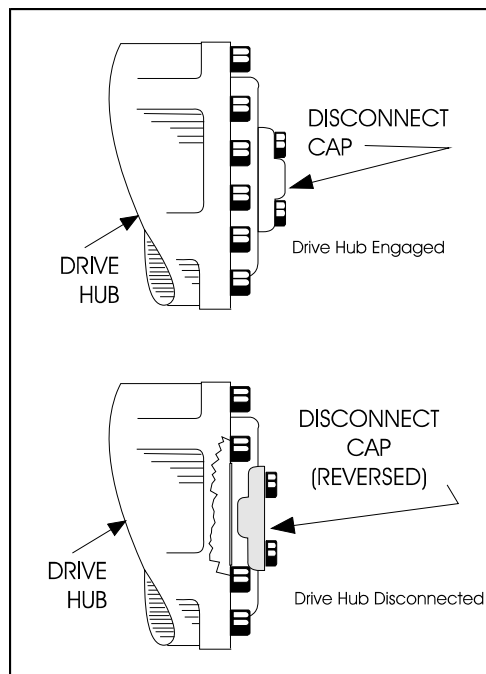


Figure 4-5. Drive Disconnect Hub

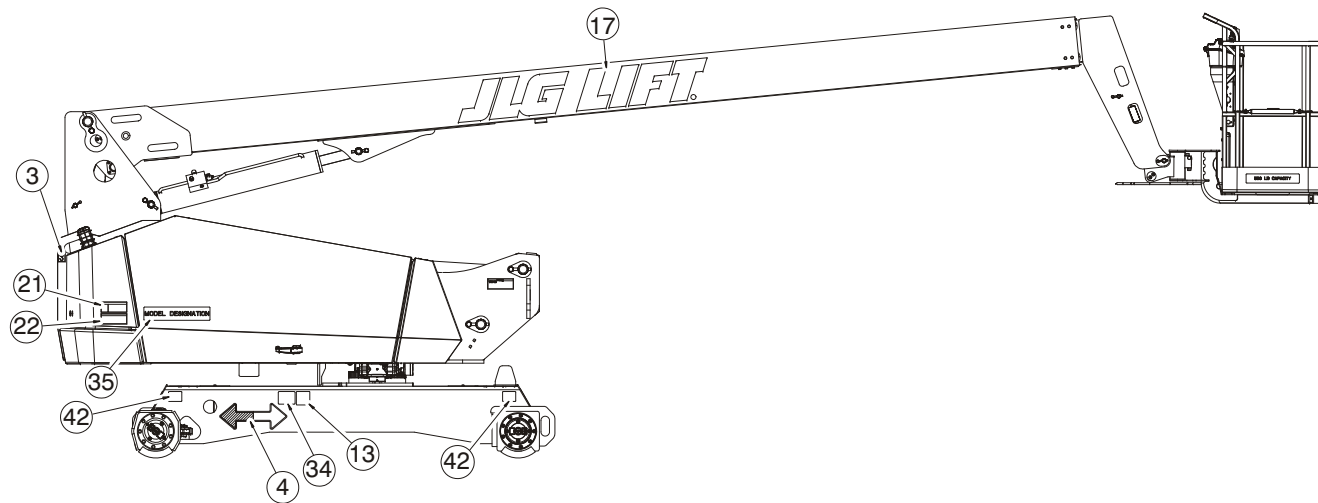


Figure 4-6. Decal Location Sheet 1 of 6

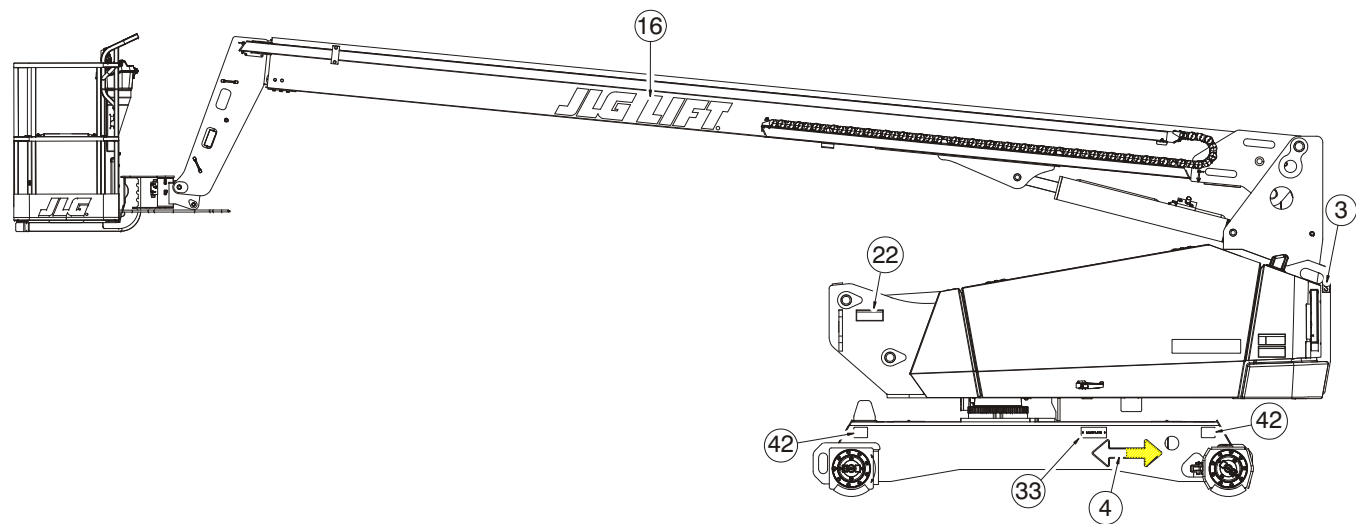


Figure 4-7. Decal Location Sheet 2 of 6

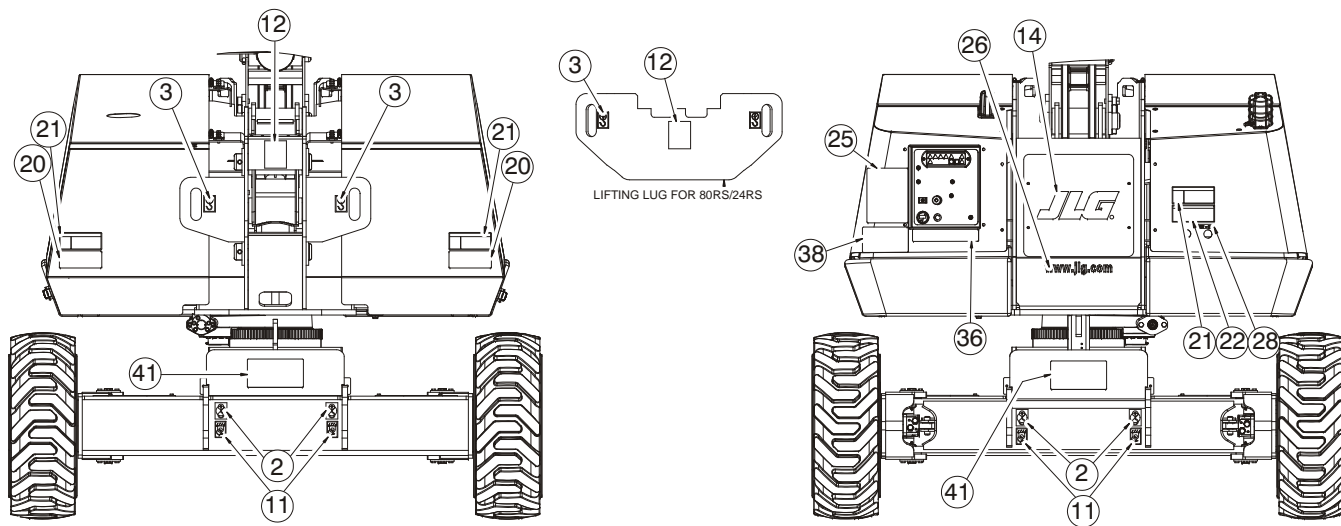
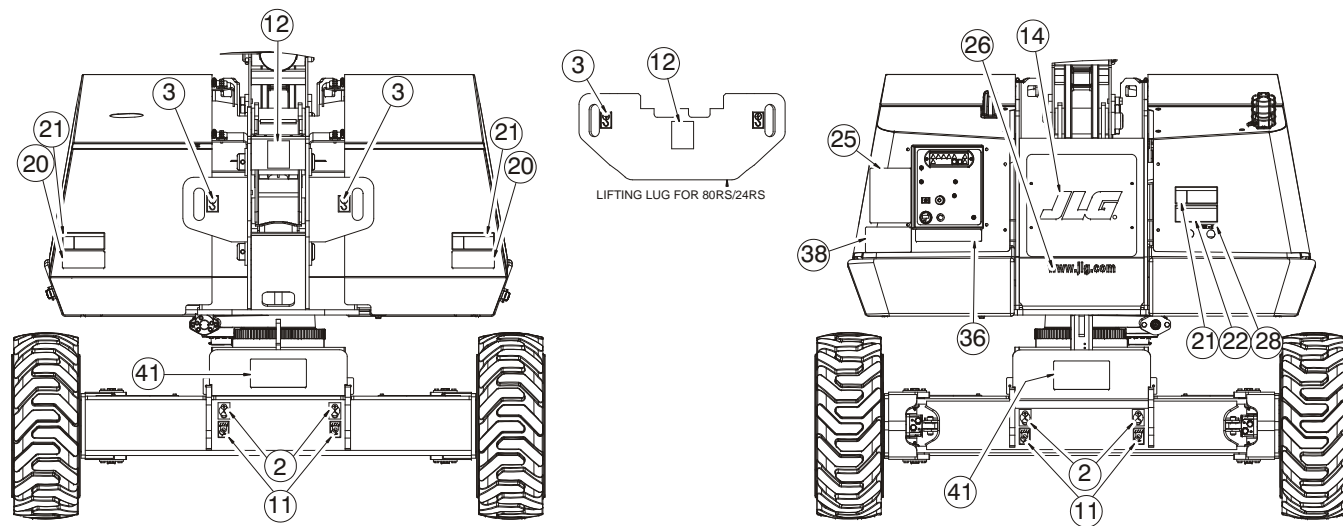


Figure 4-8. Decal Location Sheet 3 of 6



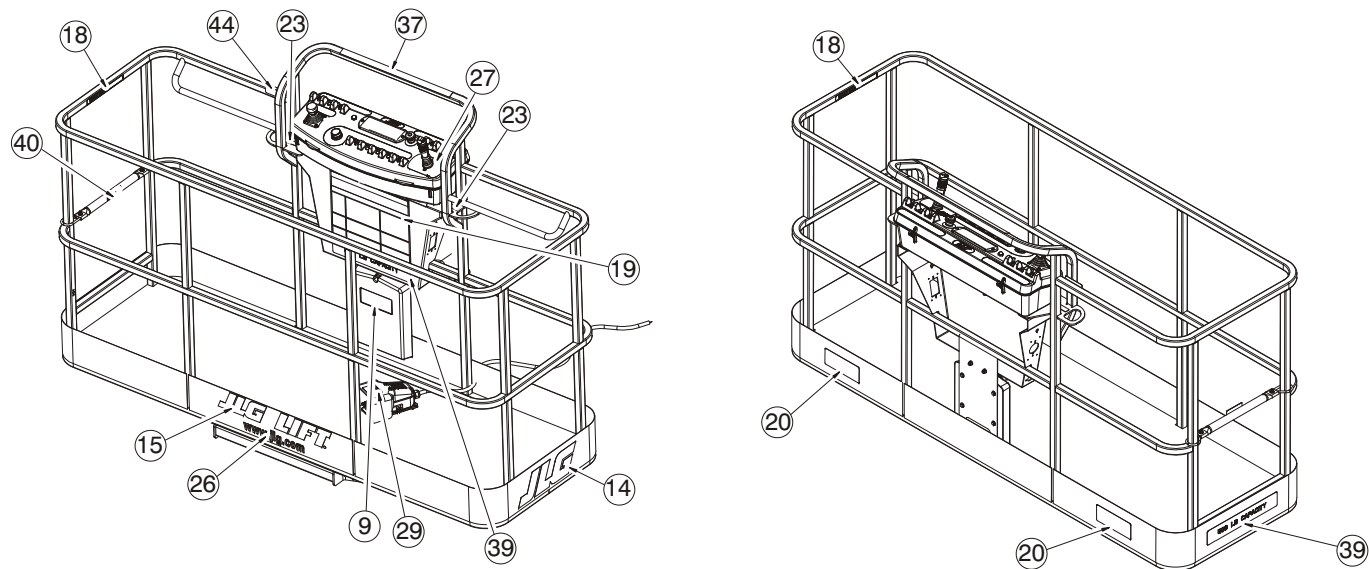
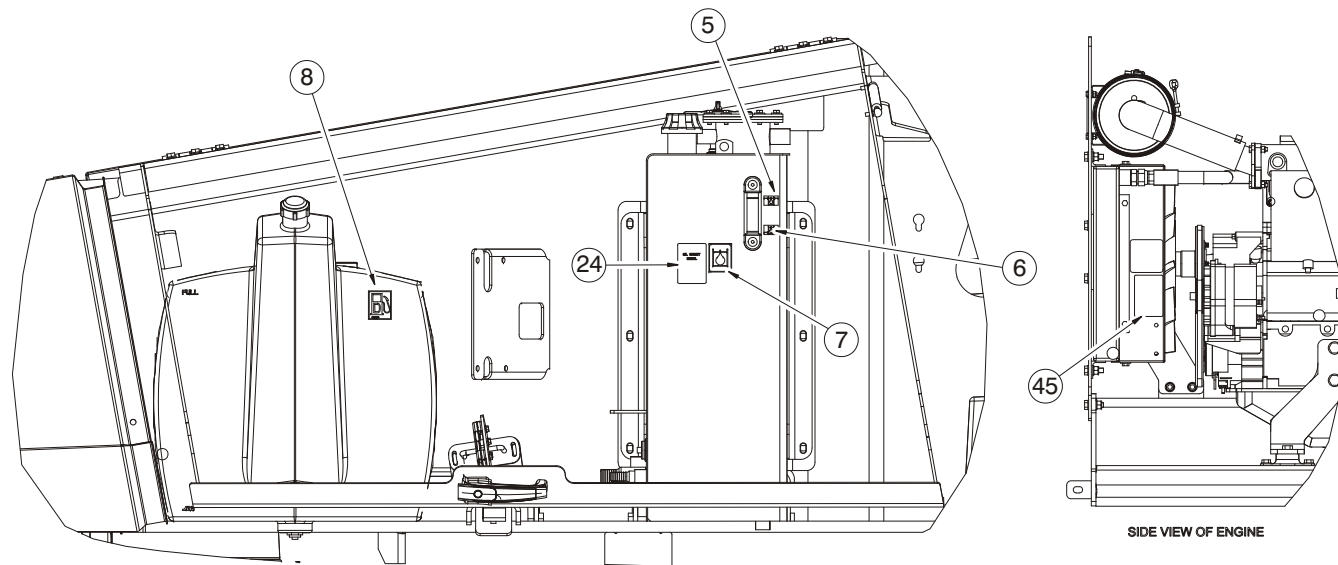


Figure 4-10. Decal Location Sheet 4 of 6



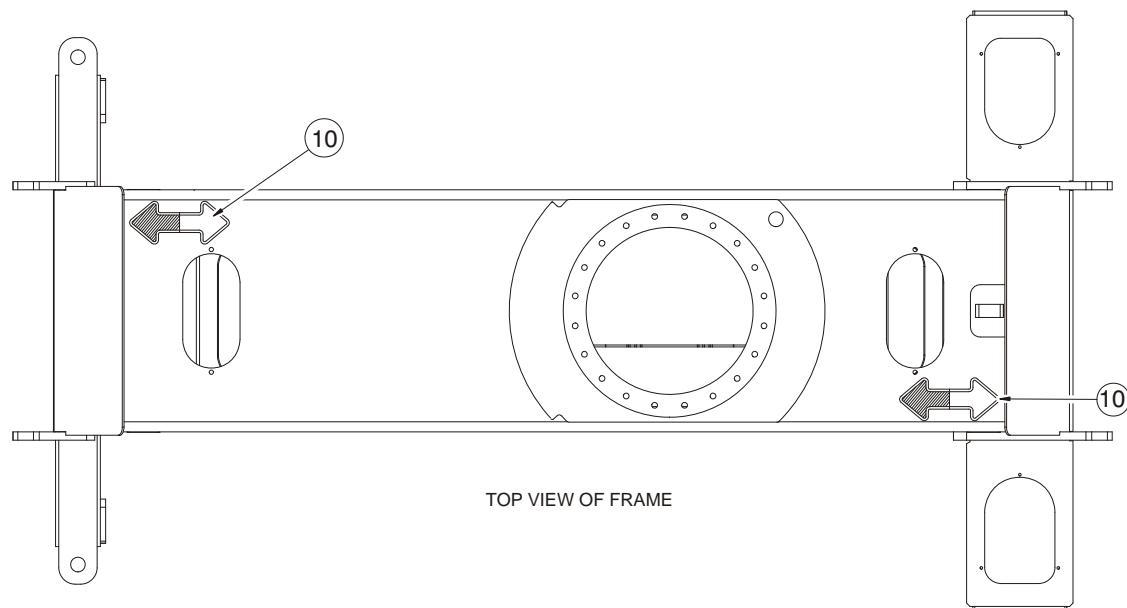


Figure 4-12. Decal Location Sheet 6 of 6

SECTION 4 - MACHINE OPERATION

Item #	ANSI 1001139024-C	Korea 1001139026-C	Chinese 1001139027-D	Portuguese 1001139028-C	Spanish 1001139029-C	French 1001139030-C	Japan 1001139031-C
1	--	--	--	--	--	--	--
2	1701499	1701499	1701499	1701499	1701499	1701499	1701499
3	1701500	1701500	1701500	1701500	1701500	1701500	1701500
4	1701501	1701501	1701501	1701501	1701501	1701501	1701501
5	1701502	1701502	1701502	1701502	1701502	1701502	1701502
6	1701503	1701503	1701503	1701503	1701503	1701503	1701503
7	--	--	--	--	--	--	--
8	1701505	1701505	1701505	1701505	1701505	1701505	1701505
9	1701509	1701509	1701509	1701509	1701509	1701509	1701509
10	1701529	1701529	1701529	1701529	1701529	1701529	1701529
11	1702300	1702300	1702300	1702300	1702300	1702300	1702300
12	1702391	1001113509	1001113168	1702391	1001113171	1001113169	1001113166
13	--	--	--	--	--	--	--
14	1702773	1702773	1702773	1702773	1702773	1702773	1702773
15	1702774	1702774	1702774	1702774	1702774	1702774	1702774
16	1702861	1702861	1702861	1702861	1702861	1702861	1702861
17	1702862	1702862	1702862	1702862	1702862	1702862	1702862
18	1702868	1705969	1705968	1705967	1704001	1704000	--
19	1703797	1703927	1703925	1705895	1703923	1703924	1703926

SECTION 4 - MACHINE OPERATION

Item #	ANSI 1001139024-C	Korea 1001139026-C	Chinese 1001139027-D	Portuguese 1001139028-C	Spanish 1001139029-C	French 1001139030-C	Japan 1001139031-C
20	1703804	1703951	1703949	1705898	1703947	1703948	1703950
21	1703805	1703939	1703937	1705897	1703935	1703936	1703938
22	1703953	1703945	1703943	1705903	1703941	1703942	1703944
23	1704277	1704277	1704277	1704277	1704277	1704277	1704277
24	1704412	1704412	1704412	1704412	1704412	1704412	1704412
25	1704575	1705345	1001116849	1705896	1705917	1705347	1705344
26	1704885	1704885	1704885	1704885	1704885	1704885	1704885
27	1705351	1705427	1705351	1705905	1705910	1705429	1705426
28	--	--	--	--	--	--	--
29	--	--	--	1705902	--	1703984	1703980
30	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--
32	--	--	--	--	--	--	--
33	--	--	--	--	--	--	--
34	--	--	1001131269	1001131269	1001131269	1001131269	1001131269
35	--	--	--	--	--	--	--
36	--	--	1001140402	1001140402	1001140402	1001140402	1001140402
37	--	--	1001140403	1001140403	1001140403	1001140403	1001140403
38	--	--	1001121823	1001121823	1001121818	1001121816	1001121821
39	--	--	1001121810	1001121920	1001121805	1001121803	1001121808

SECTION 4 - MACHINE OPERATION

Item #	ANSI 1001139024-C	Korea 1001139026-C	Chinese 1001139027-D	Portuguese 1001139028-C	Spanish 1001139029-C	French 1001139030-C	Japan 1001139031-C
40	--	--	1001140429	1001140429	1001140429	1001140429	1001140429
41	--	--	--	--	--	--	--
42	--	--	--	--	--	--	--
43	--	--	--	--	--	--	--
44	--	--	--	--	--	--	--
45	--	--	--	--	--	--	--
46	--	--	--	--	--	--	--
47	--	--	--	--	--	--	--

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.

In USA:

JLG Phone: 877-JLG-SAFE (554-7233)

Outside USA:

240-420-2661

E-mail:

ProductSafety@JLG.com

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

NOTICE

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

5.3 EMERGENCY OPERATION

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 stabilize motion of the machine.

SECTION 5 - EMERGENCY PROCEDURES

Platform or Boom Caught Overhead

If the platform or boom becomes jammed or snagged in overhead structures or equipment, rescue platform occupants prior to freeing the machine.

5.4 EMERGENCY TOWING PROCEDURES

Towing this machine is prohibited. However, provisions for moving the machine have been incorporated. Refer to Emergency Towing Procedures in Section 4.

SECTION 6. GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

6.1 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 3121284

Illustrated Parts Manual 3121285

6.2 OPERATING SPECIFICATIONS AND PERFORMANCE DATA

Operating Specifications

Table 6-1. Operating Specifications

Capacity: Unrestricted:	500 lbs. (227 kg)
Maximum Travel Grade, stowed Position (Gradeability) see Figure 4-3.	45%
Maximum Travel Grade, stowed Position (Side Slope) see Figure 4-3.	5°
Drive Speed - Stowed	2.6 mph (4.1 kph)
Elevated Drive Speed	0.75 mph (1.2 kph)
Gross Machine Weight - Approximate	16100 lbs. (7303TBD kg)
Ground Bearing Pressure	76 psi (5.34 kg/cm ²)
System Voltage	12V DC
Maximum Main Relief Hyd. Pressure	3000 psi (207 Bar)

Dimensional Data**Table 6-2. Dimensional Data**

Turning Radius (Inside)	11' 8" (3.56 m)
Turning Radius (Outside)	21' 5" (6.56 m)
Machine Height (stowed)	8' 2" (2.5 m)
Machine Height (storage)	8' 2.5" (2.5 m)
Machine Length (stowed)	30' 10" (9.4 m)
Machine Length (storage)	30' 10" (9.4 m)
Horizontal Reach	43' (13.1 m)
Machine Width (Normal Operation)	8' 2.5" (2.5 m)
Machine Width (Shipping)	7' 5" (2.3 m)
Wheel Base	9' (2.7 m)
Platform Height	60' 5" (18.34 m)
Ground Clearance	9" (0.24 m)

Capacities**Table 6-3. Capacities**

Hydraulic Oil Tank (to Full Level)	32.5 Gal. (136.3 L)
Drive Hub*	20.5 oz. (0.6 L)
* Drive hubs should be one half full of lubricant.	

Tires**Table 6-4. Tires**

Size	315/55D20
Maximum Tire Load	9,650 lbs. (4377 kg)
Type	Foam Filled

Engine Data**Table 6-5. Deutz D2011**

Type	Liquid Cooled
Number of Cylinders	4
Bore	3.7in. (94 mm)
Stroke	4.4 in. (112 mm)
Total Displacement	189.6 cu. in. (3.1 L)
Compression Ratio	19.0:1
Firing Order	1-3-4-2
Output	36.4 hp (48.8 kW)
Low Idle RPM	1200 \pm 50
High Idle RPM	2500 \pm 50

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

Hydraulic Oil

Table 6-6. 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: 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 Mobil 424 is desired, contact JLG Industries for proper recommendations.

NOTE: Hydraulic oils require anti-wear qualities at least API Service Classification GL-3, and sufficient chemical stability for mobile hydraulic system service.

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

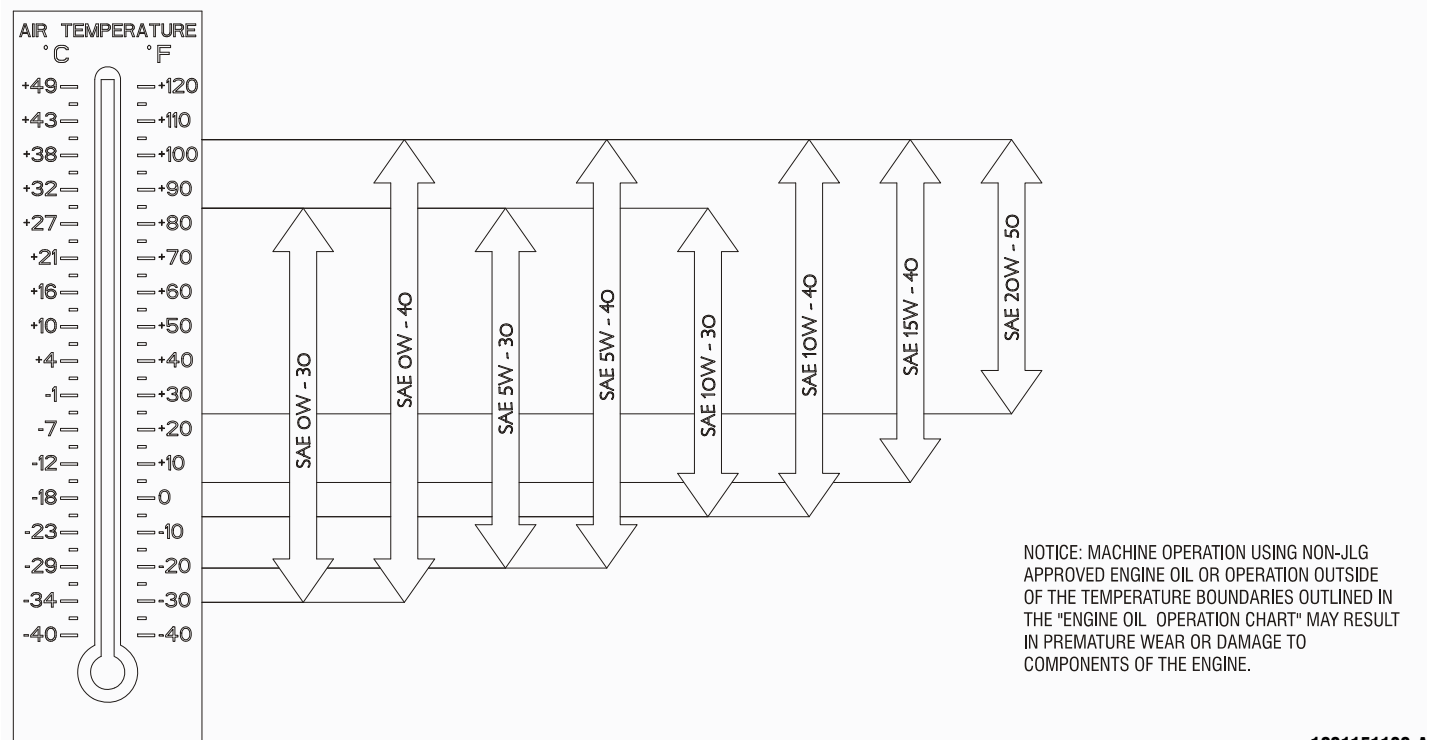
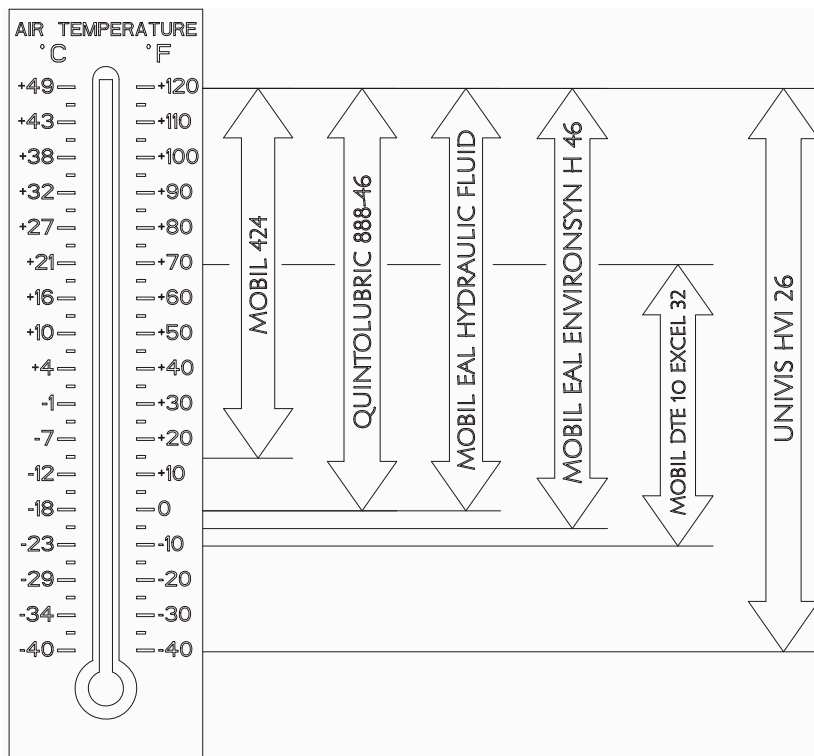


Figure 6-1. Engine Oil Operating Temperature Specifications

1001151190-A

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE



NOTICE: MACHINE OPERATION USING NON-JLG APPROVED HYDRAULIC FLUIDS OR OPERATION OUTSIDE OF THE TEMPERATURE BOUNDARIES OUTLINED IN THIS CHART MAY RESULT IN PREMATURE WEAR OR DAMAGE TO COMPONENTS OF THE HYDRAULIC SYSTEM.

Figure 6-2. Hydraulic Oil Operating Temperature Specifications

1001151189-A

Major Component Weights

WARNING

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

Table 6-7. Critical Stability Weights

Components	LBS.	KG.
Platform Support	68	31
Platform Rotator	55	25

Table 6-7. Critical Stability Weights

Components	LBS.	KG.
Tire & Wheel (Foam-Filled)	343	155.5
Engine Assembly (w/tray)	917	416
Battery	41	18.5
Counterweights (Left or Right)	937	425
Tower Boom	441.5	200.3
Tower Link	304.6	138.2
Upright	410.3	186.1
Main Boom Assembly	1886.5	855.7
Platform	224	102

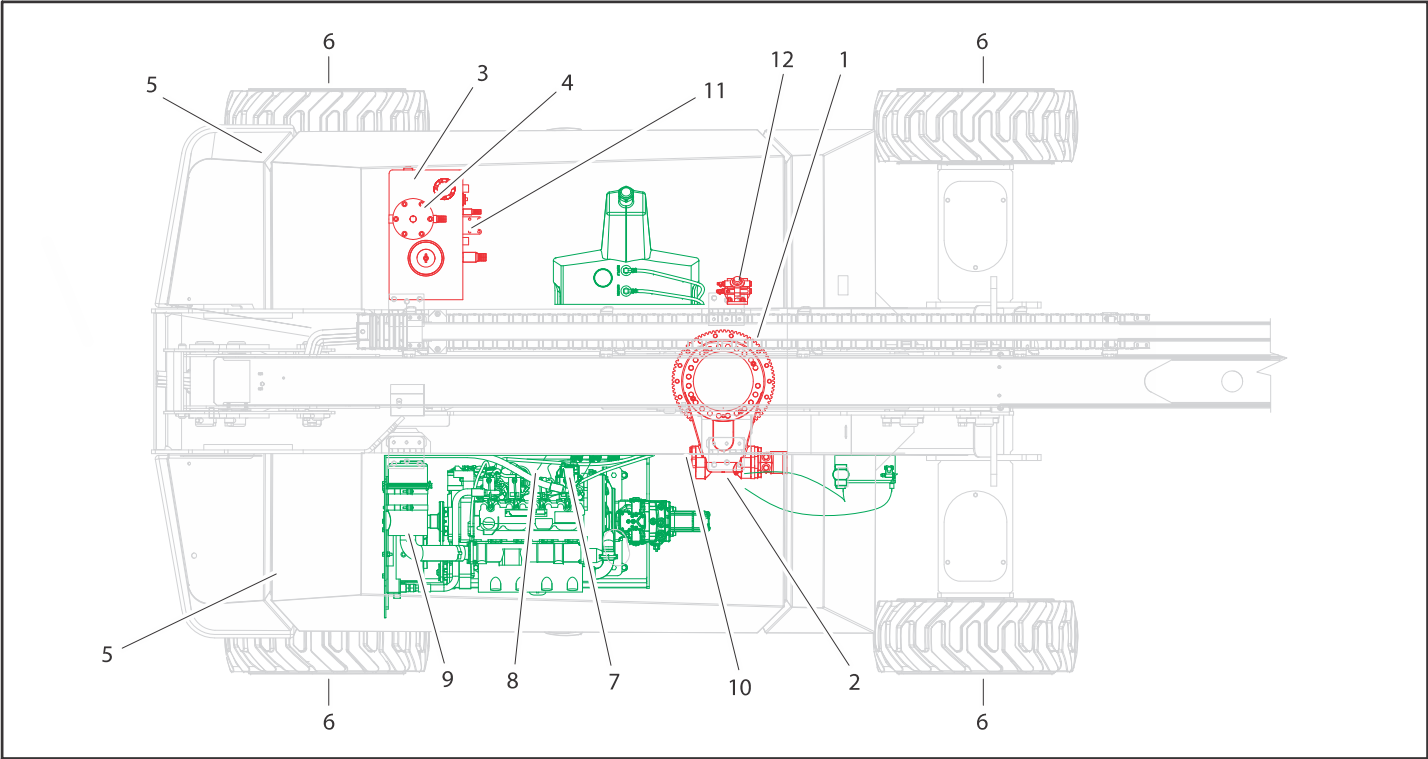


Figure 6-3. Operator Maintenance and Lubrication Diagram

6.3 OPERATOR MAINTENANCE

NOTE: The following numbers correspond to those in Figure 6-3., Operator Maintenance and Lubrication Diagram.

Table 6-8. Lubrication Specifications.

KEY	SPECIFICATIONS
BG*	Bearing Grease (JLG Part No. 3020029) Mobilith SHC 460.
HO	Hydraulic Oil. API service classification GL-4, e.g. Mobilfluid 424.
EPGL	Extreme Pressure Gear Lube (oil) meeting API Service Classification GL-5 or Mil-Spec Mil-L-2105.
MPG	Multipurpose Grease having a minimum dripping point of 350° F (177° C). Excellent water resistance and adhesive qualities, and being of extreme pressure type. (Timken OK 40 pounds minimum.)
EO	Engine (crankcase) Oil. Gas - API SF, SH, SG class, MIL-L-2104. Diesel - API CC/CD class, MIL-L-2104B/MIL-L-2104C.
*MPG may be substituted for these lubricants, if necessary, but service intervals will be reduced.	

NOTICE

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

1. Swing Bearing - Internal Ball Bearing

Lube Point(s) - 2 Grease Fittings

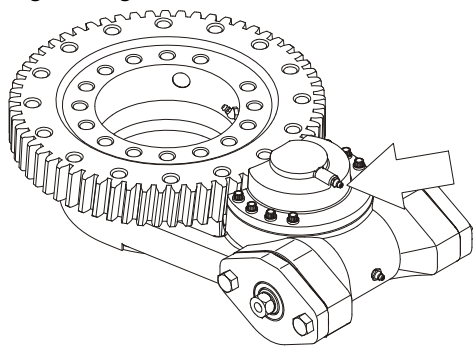
Capacity - A/R

Lube - MPG

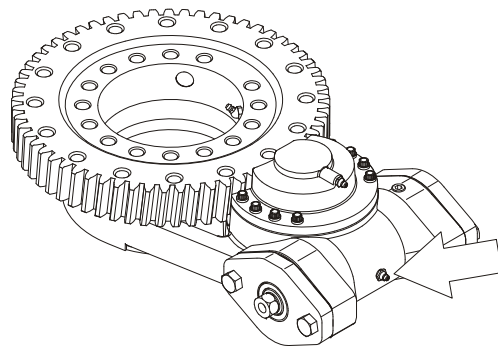
Interval - Every 3 months or 150 hrs of operation

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

2. Swing Bearing/Worm Gear Teeth



Lube Point(s) - Grease Fitting
Capacity - A/R
Lube - Lubriplate 930-AAA
Interval - A/R



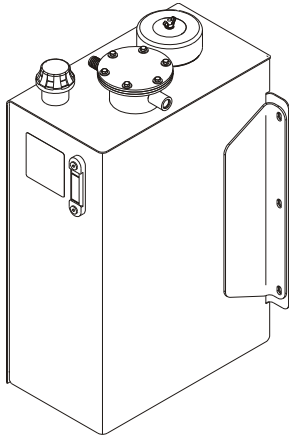
Lube Point(s) - Grease Fitting*
Capacity - A/R
Lube - Mobile SHC 007
Interval - A/R

⚠ CAUTION

DO NOT OVERGREASE BEARINGS. OVERGREASING BEARINGS WILL RESULT IN DAMAGE TO OUTER SEAL IN HOUSING.

*If necessary install grease fitting into worm gear housing and grease. Replace fitting with pipe plug when complete.

3. Hydraulic Tank



Lube Point(s) - Fill Cap

Capacity - 36 Gal. (136.3 L), 32.5 Gal. (123 L) to Full Level;
26.5 Gal (100.3 L) to Refill Mark

Lube - HO

Interval - Check Level daily; Change every 2 years or 1200 hours of operation.

Comments - On new machines, those recently overhauled, or after changing hydraulic oil, operate all systems a minimum of two complete cycles and recheck oil level in reservoir.

4. Hydraulic Tank Return Filter and Breather

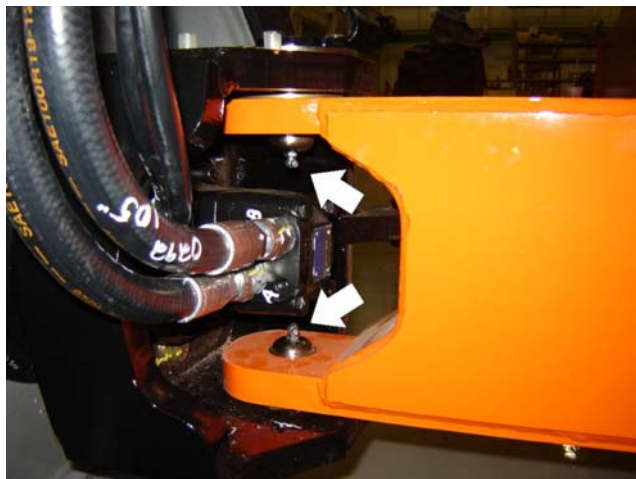


Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter.

Comments - For breather element, remove wing nut and cover to replace. Under certain conditions, it may be necessary to replace both elements on a more frequent basis.

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

5. King Pins



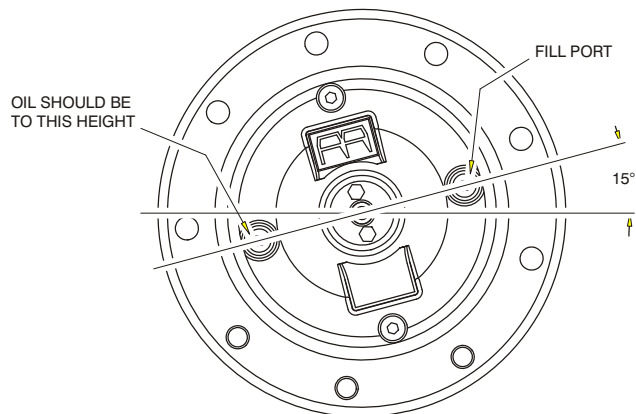
Lube Point(s) - 2 Grease Fittings

Capacity - As Required

Lube - MPG

Interval - Every 3 months or 150 hrs of operation

6. Wheel Drive Hub



Lube Point(s) - Level/Fill Plug

Capacity - 20.5 oz. (0.6 L)

Lube - Mineral Oil ISO VG150

Interval - Check level every 3 months or 150 hrs of operation; change every 2 years or 1200 hours of operation

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

7. Oil Change with Filter



Lube Point(s) - Fill Cap/Spin-on Element
Total Capacity (Engine & Oil Cooler)- 15 Quarts (14.2 L) w/
Filter

Lube - EO

Interval - Check level daily; change every 600 hours or six
months, whichever comes first. Adjust final oil level by
mark on dipstick.

8. Fuel Filter/Water Separator



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

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

9. Air Filter



Lube Point(s) - Replaceable Element

Interval - Every 6 months or 300 hours of operation

10. Charge Filter



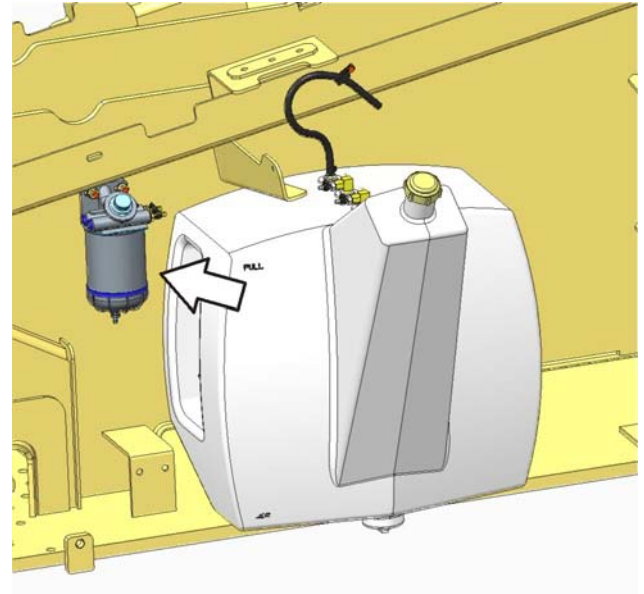
Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter.

11. Main Valve Filter



Interval - Change after first 50 hrs. and every 6 months or 300 hrs. thereafter.

12. Optional Fuel Filter



Lube Point(s) - Replaceable Element

Interval - Every year or 600 hours of operation

6.4 TIRES & WHEELS

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 and Tire Replacement

The rims installed on each product model have been designed for stability requirements which consist of track width, tire pressure, 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.

WARNING

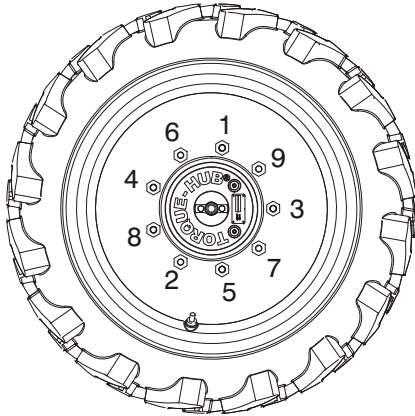
WHEEL NUTS MUST BE INSTALLED AND MAINTAINED AT THE PROPER TORQUE TO PREVENT LOOSE WHEELS, BROKEN STUDS, AND POSSIBLE DANGEROUS SEPARATION OF WHEEL FROM THE AXLE. BE SURE TO USE ONLY THE NUTS MATCHED TO THE CONE ANGLE OF THE WHEEL.

Tighten the lug nuts to the proper torque to prevent wheels from coming loose. Use a torque wrench to tighten the fasteners. If you do not have a torque wrench, tighten the fasteners with a lug wrench, then immediately have a service garage or dealer tighten the lug nuts to the proper torque. Over-tightening will result in breaking the studs or permanently deforming the

SECTION 6 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

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

Table 6-9. Wheel Torque Chart

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

6.5 SUPPLEMENTAL INFORMATION

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

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

For combustion engine powered machines, guaranteed Sound Power Level (LWA) per European Directive 2000/14/EC (Noise Emission in the Environment by Equipment for Use Outdoors) based on test methods in accordance with Annex III, Part B, Method 1 and 0 of the directive, is 104 dB.

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

SECTION 7. INSPECTION AND REPAIR LOG

Machine Serial Number _____

Table 7-1. Inspection and Repair Log

Date	Comments

SECTION 7 - INSPECTION AND REPAIR LOG

Table 7-1. Inspection and Repair Log

Date	Comments



WARNING:



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

1702961


PROPOSITION 65 WARNING


- **Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.**
- **Batteries also contain other chemicals known to the State of California to cause cancer.**
- **Wash hands after handling.**



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