

ANSI

AS/NZS



Operation and Safety Manual

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

Boom Lift Models E600 E600J E600JP M600 M600J M600JP S/N 0300219230 to Present

* See inside front cover for exceptions.

3121710 November 5, 2018 - Rev D

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar This manual also covers the following Serial Numbers.

0300218866 0300218867 0300218868

A 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.

ordei

FOREWORD

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

order got

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



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

INDICATES A POTENTIALLY 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.

NOTICE

INDICATES INFORMATION OR A COMPANY POLICY THAT RELATES DIRECTLY OR INDI-RECTLY 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 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 OF PERSONNEL OR WHEN SUBSTANTIAL DAMAGE HAS OCCURRED TO PER-SONAL PROPERTY OR THE JLG PRODUCT.

For:

- Accident Reporting
- Product Safety Publications
- Current Owner Updates
- Questions Regarding Product Safety

Contact:

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

or Your Local JLG Office (See addresses on 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

scount-Falipment.co. **REVISION LOG**

- Original Issue A May 24, 2016
- Revised B May 30, 2018
- Revised C June 29, 2018 Revised Covers, Prop 65

to order go to t

Revised D - November 5, 2018

TABLE OF CONTENTS

SECTION - PARAGRAPH, SUBJECT

SECTION - 1 - SAFETY PRECAUTIONS

1.1	GENERAL
1.1	GENERAL I-I
1.2	PRE-OPERATION1-1
	Operator Training and Knowledge
	Workplace Inspection1-2
	Machine Inspection1-3
1.3	OPERATION
	General
	Trip and Fall Hazards1-4
	Electrocution Hazards1-5
	Tipping Hazards 1-7
	Crushing and Collision Hazards
1.4	TOWING, LIFTING, AND HAULING
1.5	MAINTENANCE1-11
	Maintenance Hazards1-11
	Battery Hazards 1-13

SECTION - 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

2.1	PERSONNEL TRAINING
	Operator Training
	Training Supervision
	Operator Responsibility
2.2	PREPARATION, INSPECTION, AND MAINTENANCE 2-2
	Pre-Start Inspection
	Daily Walk-Around Inspection

PAGE **SECTION - PARAGRAPH, SUBJECT**

PA	GE

Function Check	
SkyGuard Function Test	2-13

SECTION - 3 - MACHINE CONTROLS AND INDICATORS

3.1	GENERAL
3.2	CONTROLS AND INDICATORS
. 0	Ground Control Station
	Platform Control Station
\mathbf{N}	Platform Control Indicator Panel 3-11

SECTION - 4 - MACHINE OPERATION

4.1	DESCRIPTION 4-1
4.2	OPERATING CHARACTERISTICS AND LIMITATIONS 4-1
	Capacities 4-1
	Stability 4-1
4.3	MOTOR OPERATION
	Power/Emergency Stop4-2
	Platform/Ground Select Switch
4.4	TRAVELING (DRIVING) 4-5
	Traveling Forward and Reverse
	Traveling on a Grade
4.5	STEERING
4.6	PLATFORM
	Platform Level Adjustment
	Platform Rotation 4-7

SECTION - PARAGRAPH, SUBJECT

4.7	BOOM	4-8
	Swinging the Boom	4-8
	Raising and Lowering the Upper Boom	4-8
4.8	GENERATOR (OPTIONAL)	4-8
	Automatic Operating Mode	4-8
	Battery Only Operating Mode	4-9
	Manual (Charge) Operating Mode	4-9
4.9	FUNCTION SPEED CONTROL	4-9
4.10	MACHINE SAFETY SYSTEM OVERRIDE (MSSO)	
	(CE ONLY)	4-9
4.11	SKYGUARD OPERATION	4-10
	SkyGuard	4-10
	SkyGuard - SkyLine	4-10
	SkyGuard - SkyEye	4-11
	SkyGuard Function Table	4-11
4.12	OSCILLATING AXLE LOCKOUT TEST (IF EQUIPPED)	4-12
4.13	SHUT DOWN AND PARK	4-12
4.14	LIFTING AND TIE DOWN	4-13
	Lifting	4-13
	Tie Down	4-13
4.15	TOWING INSTRUCTIONS	4-15
4.16	DRIVE HUB	
	Disengaging for Towing	4-16
	Engaging after Towing is Complete	
	OL STATE	
	X ^O	

SECTION - PARAGRAPH, SUBJECT				
SECTION - 5 - EMERGENCY PROCEDURES				
5.1	GENERAL			
5.2	INCIDENT NOTIFICATION	5-1		
5.3	EMERGENCY OPERATION	5-1		
	Operator Unable to Control Machin	e 5-1		
	Platform or Boom Caught Overhead	d 5-2		
5.4	EMERGENCY TOWING PROCEDURES	5-2		
5.5	MANUAL DESCENT SYSTEM	5-2		
5.6	MACHINE SAFETY SYSTEM OVERRIDE	(MSSO)		
\sim	(CE ONLY)	5-6		

SECTION - 6 - ACCESSORIES

6.1	FALL ARREST PLATFORM 6-2
6.2	SOFT TOUCH
6.3	BOLT-ON EXTERNAL FALL ARREST
	Inspection Before Use
6.4	SKYGLAZIER™
	Capacity Specifications 6-8
	Safety Precautions 6-9
	Preparation and Inspection
	Operation

TABLE OF CONTENTS

SECTION - PARAGRAPH, SUBJECT

SECTION - 7 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

	- 7 - GENERAL SPECIFICATIONS & OPERATOR ENANCE			A.
7.1	INTRODUCTION	7-1		
7.2	OPERATING SPECIFICATIONS	7-1		
	Capacities	7-2		
	Tires	7-2		
	Hydraulic Oil	7-3		
	Major Component Weights	7-8		
	Serial Number Location	7-8		
7.3	OPERATOR MAINTENANCE	7-10	N.	
7.4	OSCILLATING AXLE LOCKOUT TEST (IF EQUIPPED)7-14		
7.5	TIRES & WHEELS	7-15	X	
	Tire Inflation	7-15		
	Tire Damage	7-15		
	Tire Replacement	7-15		
	Wheel Replacement	7-16		
	Wheel Installation	7-16		
7.6	SUPPLEMENTAL INFORMATION	7-17		

SECTION - 8 - INSPECTION AND REPAIR LOG

FIGURE NUMBER - TITLE		PAGE	FIGURE NUMBER - TITLE
2-1.	Basic Nomenclature - Sheet 1 of 3	2-4	
2-2.	Basic Nomenclature - Sheet 2 of 3	2-5	
2-3.	Basic Nomenclature - Sheet 3 of 3	2-6	
3-1.	Ground Control Station	3-2	
3-2.	Platform Control Station	3-6	
3-3.	Platform Control Indicator Panel	3-11	
4-1.	Position of Least Forward Stability	4-3	
4-2.	Position of Least Backward Stability	4-4	
4-3.	Grade and Side Slopes	4-6	
4-4.	Traveling on a Grade	4-7	
4-5.	Lifting and Tie Down Chart	4-14	
4-6.	Decal Installation - Sheet 1 of 4	4-19	
4-7.	Decal Installation - Sheet 2 of 4	4-20	
4-8.	Decal Installation - Sheet 3 of 4		
4-9.	Decal Installation - Sheet 4 of 4	4-22	
5-1.	Manual Descent Decal	5-5	
6-1.	Soft Touch	6-3	
6-2.	Bolt-On External Fall Arrest Cable Tension	6-5	
6-3.	Bolt-On External Fall Arrest System	6-7	
7-1.	Hydraulic Oil Specification - Sheet 1 of 2	7-6	
7-2.	Hydraulic Oil Specification - Sheet 2 of 2	7-7	
7-3.	Serial Number Location	7-8	
7-4.	Operator Maintenance and Lubrication Diagram.	7-9	
	oroc		
3121710	\sim		

TABLE NU	MBER - TITLE PAGE	TABLE NUMBER - TITLE
1-1	Minimum Approach Distances (M.A.D.)1-6	X.
1-2	Beaufort Scale (For Reference Only)1-9	
2-1	Inspection and Maintenance Table2-3	
4-1	Decal Legend	
6-1	Available Accessories6-1	
7-1	Operating Specifications7-1	
7-2	Capacities	
7-3	Tires	
7-4	Hydraulic Oil	
7-5	DTE 10 Excel 15 Specs	
7-6	Mobil EAL Envirosyn H 32 Specs7-4	
7-7	Mobil EAL Envirosyn SHC 32 Specs7-4	
7-8	DTE 10 Excel 32 Specs	
7-9	Component Weights	
7-10	Lubrication Specifications	
7-11	Wheel Torque Chart7-17	
8-1	Inspection and Repair Log8-1	
	×O	

To order do

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

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").

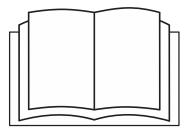
WARNING

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

 The Operation and Safety Manual must be read and understood in its entirety before operating the machine. For clarification, questions, or additional information regarding any portions of this manual, contact JLG Industries, Inc.



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

, order

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 AN AERIAL WORK PLATFORM SHALL BE MADE ONLY WITH PRIOR WRITTEN PERMISSION FROM THE MANUFACTURER.

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

1.3 OPERATION

General

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

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

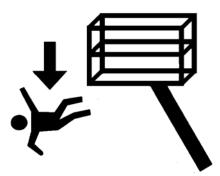
Trip and Fall Hazards

• 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.



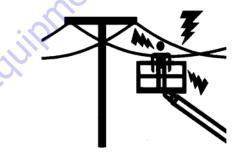
• Enter and exit only through gate area. Use extreme caution when entering or leaving platform. Ensure that the platform assembly is fully lowered. Face the machine when entering or leaving the platform. Always maintain "three point contact" with the machine, using two hands and one foot or two feet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

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



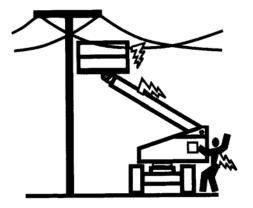
• This machine is not insulated and does not provide protection from contact or proximity to electrical current.

Electrocution Hazards



- 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.

oru



• 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.

orde

• 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.

3121710

• 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

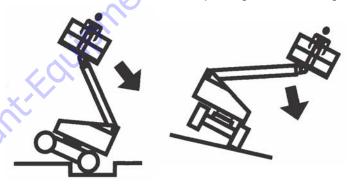
DANGER

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

order

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 or near a sloping, uneven, or soft surface. Ensure machine is positioned on a firm, level and smooth surface 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 work load as specified on the platform. Keep all loads within the confines of the platform, unless authorized by JLG.
- Keep the chassis of the machine a minimum of 2 ft. (0.6m) from holes, bumps, drop-offs, obstructions, debris, concealed holes, and other potential hazards at the ground level.
- Do not push or pull any object with the boom.
- Never attempt to use the machine as a crane. Do not tie-off machine to any adjacent structure. Never attach wire, cable, or any similar items to platform.
- If boom assembly or platform is in a position that one or more wheels are off the ground, all persons must be removed before attempting to stabilize the machine. Use cranes, forklift trucks or other appropriate equipment to stabilize machine.

order go

- Do not operate the machine when wind conditions, including gusts, may exceed 28 mph (12.5 m/s). Factors affecting wind speed are; platform elevation, surrounding structures, local weather events, and approaching storms. Refer to Table 1-2, Beaufort scale (For Reference Only) or use other means to monitor wind conditions.
- Wind speed can be significantly greater at height than at ground level.
- Wind speed can change rapidly. Always consider approaching weather events, the time required to lower the platform, and methods to monitor current and potential wind conditions.
- Do not increase surface area of the platform or the load. Increased areas exposed to wind will decrease stability.
- Do not increase the platform size with unauthorized modifications or attachments.

SECTION 1 - SAFETY PRECAUTIONS

NOTICE

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

S).

Beaufort Number	Wind Speed		Description		
	mph	m/s	Description	Land Conditions	
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	Lightbreeze	Wind felt on exposed skin. Leaves rustle	
3	8-12	3.4-5.4	Gentle breeze	Leaves and smaller twigs in constant motion	
4	13-18	5.5-7.9	Moderate breeze	Dust and loose paper raised. Small branches begin to move.	
5	19-24	8.0-10.7	Fresh breeze	Smaller trees sway.	
6	25-31	10.8-13.8	Strong breeze	Large branches in motion. Flags waving near horizontal. Umbrella use becomes difficult.	
7	32-38	13.9-17.1	Near Gale/Moderate Gale	Whole trees in motion. Effort needed to walk against the wind.	
8	39-46	17.2-20.7	Fresh Gale	Twigs broken from trees. Cars veer on road.	
9	47-54	20.8-24.4	Strong Gale	Light structure damage.	
<	00	'Ser			

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.
- 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.
- 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.
- 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 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, 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.

order got

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.



- Ensure replacement parts or components are 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 unit in any way to affect stability.
- Refer to the Service and Maintenance Manual for the weights of critical stability items.

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

SECTION 1-SAFETY PRECAUTIONS

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.

· o order go to

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.

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

SECTION 1 - SAFETY PRECAUTIONS

NOTES:	ant.com
	0
×0×	
Xe	
1-14	3121710

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, dropoffs.
- 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 recommended 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.

order



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.

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

Туре	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

Table 2-1.Inspection and Maintenance Table

~ order o

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION

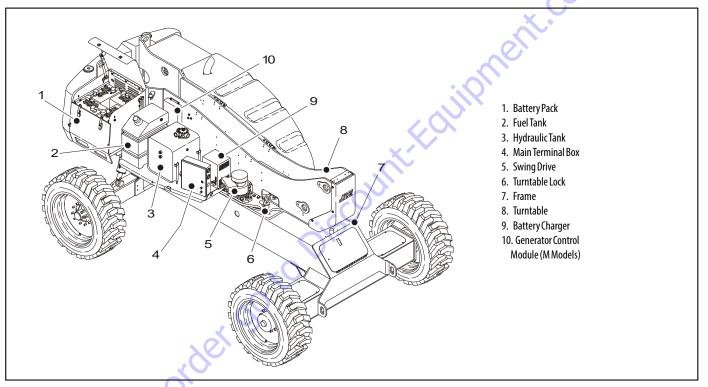
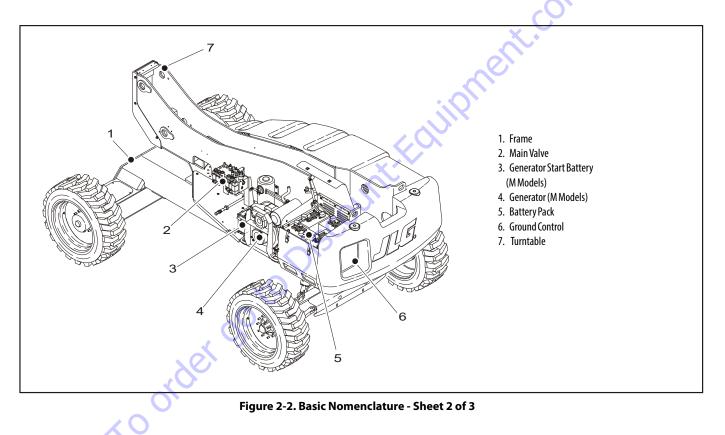
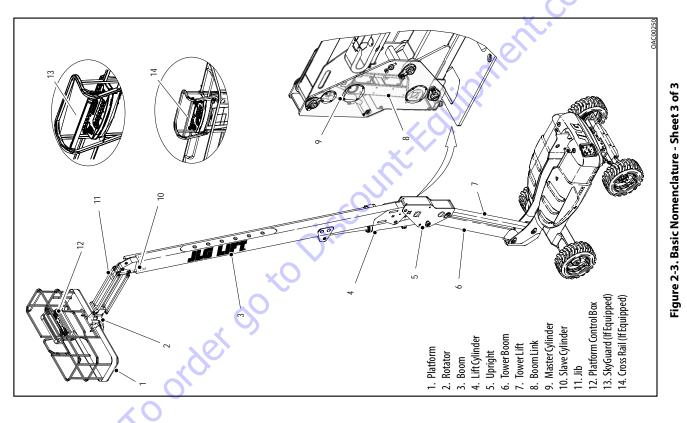


Figure 2-1. Basic Nomenclature - Sheet 1 of 3

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARATION, AND INSPECTION





Pre-Start Inspection

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

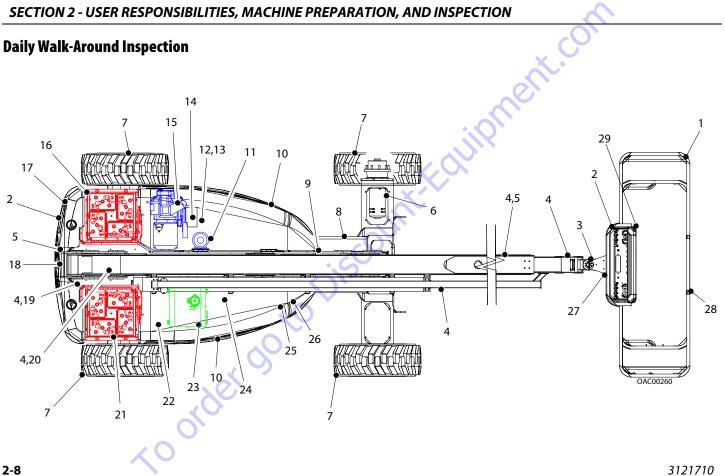
- 1. Cleanliness Check all surfaces for leakage (oil, fuel, or battery fluid) or foreign objects. Report any leakage to the proper maintenance personnel.
- 2. Decals and Placards Check all for cleanliness and legibility. Make sure none of the decals and placards are missing. Make sure all illegible decals and placards are cleaned or replaced.
- 3. Operation and Safety Manuals Make sure a copy of the Operation and Safety Manual, AEM Safety Manual (ANSI markets only), and ANSI Manual of Responsibilities (ANSI markets only) is enclosed in the weather resistant storage container.
- 4. Daily Walk-Around Inspection Perform as instructed.

· o order of

- 5. Battery Charge as required.
- **6. Fuel** (Combustion Engine Powered Machines) Add the proper fuel as necessary.
- Hydraulic Oil Check the hydraulic oil level. Ensure hydraulic oil is added as required.
- 8. Accessories/Attachments Reference the Operation and Safety Manual of each attachment or accessory installed upon the machine for specific inspection, operation, and maintenance instructions.
- 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.



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.



GENERAL

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

WARNING

TO AVOID POSSIBLE INJURY BE SURE MACHINE POWER IS OFF DURING "WALK-AROUND INSPECTION".

NOTICE

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

- **NOTE:** On each item, make sure there are no loose or missing parts, that they are securely fastened and that no visible damage exists in addition to any other criteria mentioned.
 - Platform Assembly Platform mounting pins secure. Footswitch in good working order; not modified, disabled or blocked.

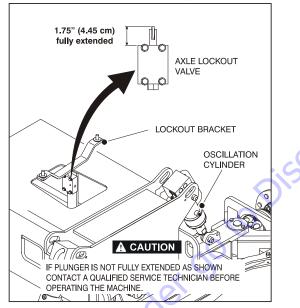
ore

- Platform & Ground Control Console Switches and control levers; placards secure and legible; control lever and switches return to neutral; control lever lock functions properly; emergency stop switch functions properly; control markings legible.
- 3. Rotator See Note.
- **4.** All Hydraulic Cylinders No visible damage; Pivot pins and hydraulic hoses undamaged, not leaking.
- Boom Pivot pins secure; Upright in vertical position. See Note.
- 6. Drive Axle and Motor See Note
- Wheel/Tire Assembly No loose or missing lug nuts, proper inflation (pneumatic). Inspect for worn tread, cuts, tears, or other discrepancies. Inspect wheels for damage and corrosion
- 8. Frame (top and underside) See Note.

- BOOM LIMIT SWITCH
- 9. Boom Limit Switch Switch operable;

- 10. Cowling and Latches See Note
- **11.** Hydraulic Pump and Reservoir Recommended hydraulic fluid level on dipstick (system shut down, boom in stowed position). Breather cap/dipstick secure and working.
- 12. Manual Descent Valve See Note
- 13. Control Valve No unsupported or damaged wires or hoses.
- 14. Generator Start Battery See Note
- **15.** Engine Oil Supply Full mark on dipstick; filler cap and filter secure.
- **16.** Battery Compartment Right Side See Note
- 17. Counterweight See Note
- 18. Limit Switches Switches operable.
- **19.** Tie Rod Ends and Steering Spindles Tie rod end stubs locked.

20. Oscillating Axle and Lockout Valve (If Equipped) - Check the lockout valve plunger in the depressed position. Swing the turntable until the axle lockout bracket passes the plunger and make sure the plunger is fully extended as shown below



21. Battery Compartment - See Note

- 22. Fuel Supply Fuel filler cap secure; Tank Decals secure and legible.
- **23.** Hydraulic Oil Filter Housing See Note
- 24. Battery Charger See Note
- **25.** Turntable Bearing Evidence of proper lubrication. No loose bolts or looseness between bearing and structure.
- **26.** Swing Motor Evidence of proper lubrication.
- 27. Platform Pivot Pins See Note
- **28.** Platform Gate Latch and Hinges in working condition.
- **29.** SkyGuard (If Equipped) See Inspection Note.

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 check all limiting and cut-out switches.
 - c. Check auxiliary power (or manual descent).
 - **d.** Ensure that all machine functions are disabled when the Emergency Stop Button is activated.

orderdi

- 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;
 - Operate all functions and check all limiting and cut-out switches;
 - **d.** Ensure that all machine functions are disabled when the Emergency Stop Button is pushed in.
 - With machine in the transport (stowed) position, drive on a grade (not to exceed the rated gradeability) and stop to ensure the brakes hold;
 - **f.** With machine in the transport (stowed) position, check the tilt sensor indicator light to ensure proper operation.

SkyGuard Function Test

NOTE: Refer to Section 4.11 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.
 - 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.
 - c. If equipped with a SkyGuard beacon, the beacon illuminates.

- **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.

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

SECTION 2 - USER RESPONSIBILITIES, MACHINE PREPARA	TION, AND INSPECTION
NOTES:	ent.con
	ii0
	J ⁿ t
<u>is</u>	
×O	
2-14	3121710

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 optional generator engine will automatically shut down under the following conditions:

Batteries Fully Charged High Oil Temperature Low Oil Pressure Engine Overspeed Overvoltage

NOTE: The optional generator engine will not start if the batteries are fully charged or if the Generator Enable switch on the platform console is not in the on position.

Ground Control Station

See Figure 3-1.



DO NOT OPERATE FROM GROUND CONTROL STATION WITH PERSONNEL IN THE PLAT-FORM EXCEPT IN AN EMERGENCY.

PERFORM AS MANY PRE-OPERATIONAL CHECK AND INSPECTIONS FROM GROUND CONTROLS AS POSSIBLE.

- **NOTE:** When machine is shut down the Platform/Ground Select switch and Emergency Stop must be positioned to OFF.
- **NOTE:** The Function Enable switch must be held down in order to operate Telescope, Lift, Swing, Jib Lift, Platform Level Override, and Platform Rotate functions.



1. Platform Rotate

A three position switch permits rotation of the platform.



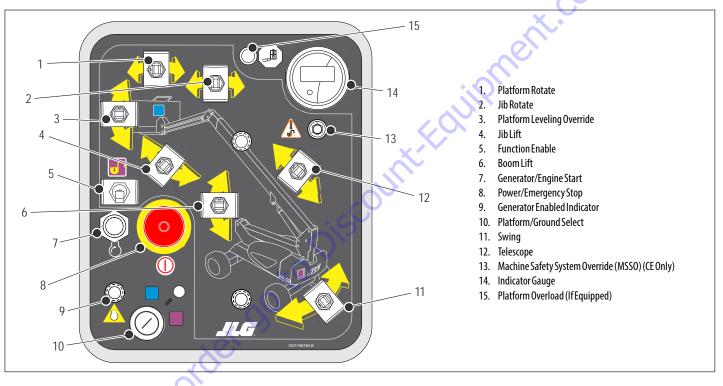


Figure 3-1. Ground Control Station

2. Jib Rotate (If Equipped)

A three position switch permits rotation of the jib and platform.



A 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.

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. Jib Lift (If Equipped)

This switch provides raising and lowering of the jib.



5. Function Enable



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

6. Boom Lift

Provides for raising and lowering of the Boom.



- **NOTE:** Refer to the Service Manual for the generator fault codes.
 - 7. Generator/Engine Start Button (if equipped)



The generator/engine start push-button switch allows the generator to be started manually to topoff the battery charge. The generator will start automatically when the batteries reach a low-charge level.

8. Power/Emergency Stop



A two-position red mushroom shaped switch furnishes power to Platform/Ground Select switch when pulled out (on). When pushed in

(off), power is shut off to the Platform/Ground Select switch.

9. Generator Enabled Indicator

The generator enabled indicator lights to signify the generator is enabled and may start at

any time as the batteries require. If the indicator flashes, it signifies an abnormal condition for the generator engine (high oil temperature or low oil pressure) or, on all electric machines, an electrical system fault.

10. Platform/Ground Select

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

NOTE: With PLATFORM/GROUND SELECT switch in the center position, power is shut off to controls at both operating stations.

11. Swing

This switch provides 400 degrees noncontinuous turntable rotation. To activate SWING, position switch to LEFT or RIGHT.



Provides for extension and retraction of the Boom.



 Machine Safety System Override (MSSO) (CE Only)

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

-

14. Indicator Gauge

Registers the amount of time the machine has been in use, with functions operating. In the event of a fault, the hourmeter also displays the three digit fault code. Refer to the

machine rating. In also disfer 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.

15. Platform Overload (If Equipped)

Indicates the platform has been overloaded.



Platform Control Station

(See Figure 3-2., Platform Control Station)

1. Power/Emergency Stop

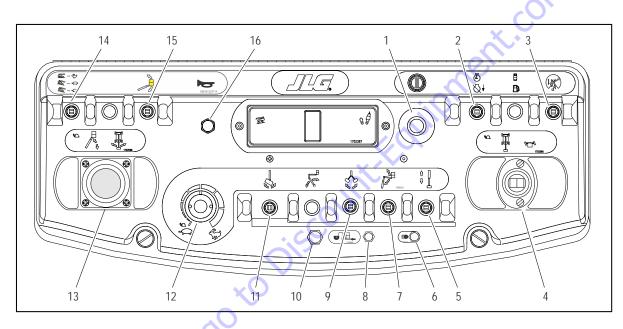
A two-position red mushroom shaped switch furnishes power to PLATFORM Controls when pulled out (on). When pushed in (off), power is shut off to the platform functions.



Within about 2 seconds of pulling the switch out, the machine will perform a diagnostic check of the various electrical circuits, and if everything is OK, the platform alarm will beep once. During this time the lights on the indicator panel will also blink once as a bulb check.



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.



- Power/Emergency Stop 1.
- Generator Enable 2.

Drive/Steer

4.

- Drive Orientation Override 3.
- 5. Telescope
- 6. Lights
- 7. Articulating Jib Boom
 - Soft Touch/SkyGuard Override
- 9. Jib Rotate
- 10. Soft Touch/SkyGuard Indicator
- 11. Platform Rotate
- 12. Function Speed

- 13. Main Lift/Swing 14. Speed Mode
- 15. Platform Leveling Override
- 16. Horn

Figure 3-2. Platform Control Station

2. Generator Enable Control (if equipped)

This switch allows the operator to prevent the generator engine from starting to charge the batteries when using the machine indoors.

Drive Orientation Override 3.

> 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 and match the control direction arrow to the intended chassis direction.

- Drive/Steer

The DRIVE joystick provides for driving either forward or backward. The controller is 'ramped' to allow variable drive speed.

Steering is controlled by a thumb operated switch on top of the joystick.

Telescope Control

This switch allows extension and retraction of the main boom.

6. Lights (If Equipped)

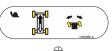
This switch operates accessory light packages if the machine is so equipped.

7. Jib Lift (If Equipped)

This switch controls the raising and lowering of the jib (up or down).











8. Soft Touch/SkyGuard Override Switch (If equipped)

The machine can be equipped with one of three options. It may have Soft Touch, SkyGuard, or both Soft Touch and Sky-Guard.

If equipped with Soft Touch, the switch enables the functions that were 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.

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

If equipped with both Soft Touch and SkyGuard, the switch operates like described above and allows the operator to override the system that has experienced a cutout situation.

- ons. It A I Sky- ji
- **9.** Jib Rotate (If Equipped)

A three position switch permits rotation of the jib and platform (left or right).



10. Soft Touch/SkyGuard Indicator (If Equipped)

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.

I. Platform Rotate

This switch controls the rotation of the basket (left or right).



12. Function Speed Control

Controls the speed of Boom and Swing Functions. Rotate CCW for slower speed and CW for faster speed. To adjust to creep, turn knob fully CCW until it clicks.

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.
 - 13. Main Lift/Swing

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.

NOTE: Main lift and swing functions may be selected at the same time. Maximum speed is reduced when both functions are selected. 14. Speed Mode

Activating the Speed Mode switch allows the operator to High or Low Speed travel operation.

2WD - On 2WD machines, a two-position switch is used. The forward position selects High Speed travel and the lower position selects Low Speed travel.





4WD - On 4WD machines, a three-position switch is used. The forward position selects High speed mode. The middle position selects Low Speed mode and Automatic 4WD. The lower position is momentary and selects Manual 4WD. It must be held down as long as Manual 4WD is required.



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.

15. 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.

orv

16. Horn

If pressed, this switch supplies power to the horn.

Platform Control Indicator Panel

(See Figure 3-3., Platform Control Indicator Panel)

NOTE: The platform control indicator panel uses 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.

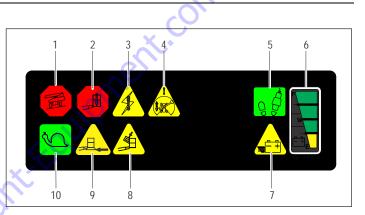


Indicates an abnormal operating condition, which if not corrected, may result in machine interruption or damage. This indicator will be yellow.



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.

order



1. Tilt

3.

4.

- Platform Overload
- System Distress
- Drive Orientation Override 9. Soft Touch Indicator

Battery Charge

SkyGuard Indicator

Low Battery

5. Footswitch/Enable Indicator 10. Creep

Figure 3-3. Platform Control Indicator Panel

3121710

1. Tilt Alarm Warning Light and Alarm

This orange 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.

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.

2. Platform Overload (If Equipped)

Indicates the platform has been overloaded.

3. System Distress Light

The system distress light indicates an abnormal condition for machine control system.



The three likely causes of a system fault are:

- **a.** The seven second enable time has been allowed to lapse or a function was selected before pushing down the footswitch.
- b. The maximum power limit has been reached and the machine is not moving. This condition is the same as stalling the engine by asking it to provide more power than it was designed to do.
- **c.** There is some other fault in one of the circuits. Refer to the service manual.
- **4.** 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 activate the Drive Orientation Override Switch and verify the drive control direction is correct.

5. 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

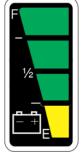
TO AVOID SERIOUS INJURY, DO NOT REMOVE, MODIFY OR DISABLE THE FOOTSWITCH BY BLOCKING OR ANY OTHER MEANS.

WARNING

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

6. Battery Charge Indicator

This indicator lights to show the state-ofcharge of the battery pack..



7. Low Battery Light

This light indicates when battery voltage is below 45 volts and flashes below 40 volts. The machine will shut down below 33 volts.



8. SkyGuard (If Equipped)

When illuminated indicates the SkyGuard sensor has been activated. All controls are cut out until the override button is pushed, at which time controls will work normally.



9. Soft Touch Indicator (If Equipped)

When illuminated (Yellow) the Soft Touch bumper is against an object. All controls are disabled until the override button is pushed, at which time controls are active in the Creep mode.

order



anntat

10. 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.



TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

SECTION 4. MACHINE OPERATION

4.1 **DESCRIPTION**

This machine is a self-propelled hydraulic lift equipped with a work platform on the end of an elevating, articulating 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 upper or lower boom or swing the boom to the left or right. Standard boom swing is 400 degree non-continuous left and right of the stowed position. 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. The Ground Control is also to be used in Pre-Start Inspection.

orderd

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 and level surface.
- 2. Load is within manufacturer's rated capacity.
- 3. All machine systems are functioning properly.
- 4. Proper tire pressure.
- 5. 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 (See Figure 4-1.), and its position of least BACKWARD stability is shown in (See Figure 4-2.)

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

4.3 MOTOR OPERATION

Power/Emergency Stop

This red, mushroom-shaped switch provides battery power, when pulled out (on), for all machine functions. The switch should be pushed in (off) when recharging the batteries or parking the machine overnight.

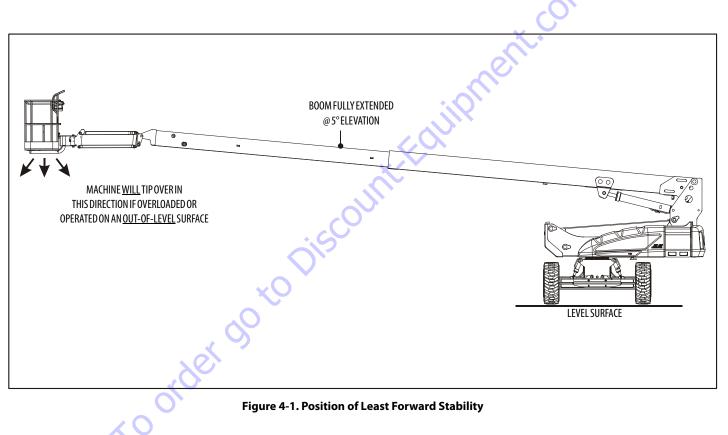
Within about 2 seconds of pulling the switch out, the machine will perform a diagnostic check of the various electrical circuits, and if everything is OK, the platform alarm will beep once. During this time the lights on the indicator panel will also blink once as a bulb check.

order.

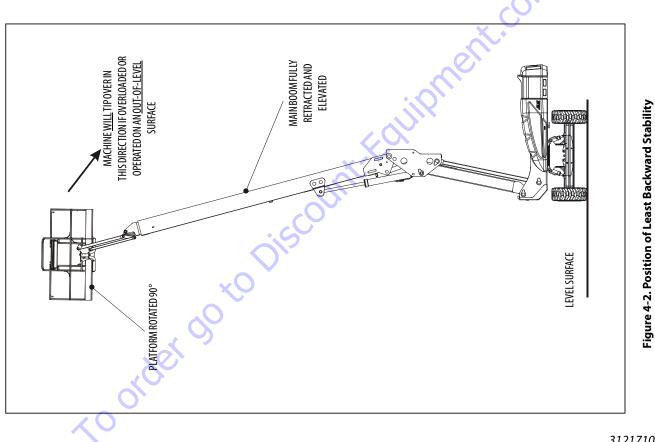
Platform/Ground Select Switch

The Platform/Ground Select switch directs power to the Ground or Platform controls as selected. For power, the POWER/EMER-GENCY STOP switch must also be pulled out (on).

SECTION 4 MACHINE OPERATION



SECTION 4 - MACHINE OPERATION



4.4 TRAVELING (DRIVING)

NOTE: When the upper boom is raised approximately 11 degrees above horizontal, the high drive function will automatically be in low drive.

NOTICE

IF THE MACHINE IS OPERATED AT A VERY SLOW SPEED OR STALLED WHEN CLIMBING A GRADE OF 20% OR GREATER, DRIVE FUNCTION WILL STOP. REMOVE YOUR FOOT FROM FOOT-SWITCH, AND PUSH THE FOOTSWITCH DOWN AGAIN TO RESET IT.

DO NOT DRIVE WITH BOOM ABOVE HORIZONTAL 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 ON THE SERIAL NUMBER PLATE.

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, MAKE SURE BOOM IS POSITIONED OVER REAR DRIVE AXLE. IF BOOM IS OVER FRONT WHEELS, STEER AND DRIVE CONTROLS WILL BE REVERSED.

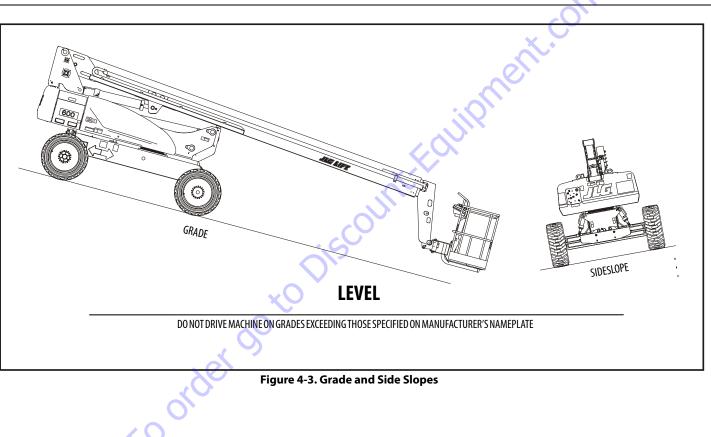
Traveling Forward and Reverse

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

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

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

SECTION 4 - MACHINE OPERATION



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.

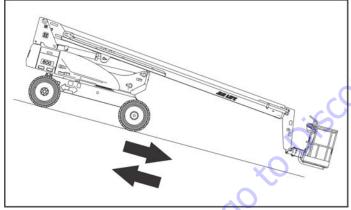


Figure 4-4. Traveling on a Grade



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

4.5 STEERING

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

4.6 PLATFORM

Platform Level Adjustment

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

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

Platform 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.

4.7 BOOM

DO NOT SWING OR RAISE BOOM ABOVE HORIZONTAL WHEN MACHINE IS OUT OF LEVEL.

DO NOT DEPEND ON TILT ALARM AS A LEVEL INDICATOR FOR THE CHASSIS.

TO AVOID TIP OVER, LOWER PLATFORM TO GROUND LEVEL. THEN DRIVE MACHINE TO A LEVEL SURFACE BEFORE RAISING BOOM.

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.

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.

order of

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.

Raising and Lowering the Upper Boom

To raise or lower the Upper Boom, use Upper Boom Lift switch to select UP or DOWN movement.

4.8 GENERATOR (OPTIONAL)

Automatic Operating Mode

The generator will operate in automatic mode when:

- 1. Ground Control EMS is pulled out (on), and:
- **2.** The Generator Enable switch on the platform control console is in the On or Enable position.

When the above conditions apply, the generator's controller will monitor status of the batteries, will turn on automatically when

the battery voltage drops as a result of discharge and will turn off when batteries are fully charged.

Battery Only Operating Mode

The machine will operate in the battery only mode when:

- 1. Ground Control EMS is pulled out, and:
- **2.** The switch on the platform control console is in the Off or Disable position.

The batteries can be used until they are fully discharged.

Manual (Charge) Operating Mode

The generator will operate in manual mode when:

- 1. Ground Control EMS is pulled out, and:
- The switch on the platform control console is in the On or Enable position <u>and</u>:
- 3. The Manual Charge push button is activated.

Activation of the Manual Charge button will start the engine and begin the charging cycle even if the batteries are charged above the level of automatic start.

4.9 FUNCTION SPEED CONTROL

This control affects the speed of all boom functions and Platform Rotate. When in the CCW maximum position, Drive is placed in creep speed.

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

The Machine Safety System Override (MSSO) is used to override function controls for Emergency Platform Retrieval only. Refer to Section 5.6, 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.

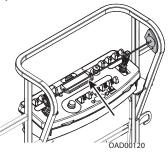
Consult the following illustrations to determine which type of SkyGuard the machine has. Regardless of type, SkyGuard function according to the SkyGuard Function Table does not change.

· o order of

SkyGuard

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

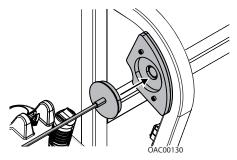
SkyGuard - SkyLine



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

SECTION 4 - MACHINE OPERATION

OAC00140



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

Operator passes through path of sensor beam.

SkyGuard Function Table

SkyGuard - SkyEye

Drive Forward	Drive Reverse	Steer	Swing	Boom Lift Up	Boom Lift Down	Boom Tele Out	Boom Tele In	Jib Lift	Jib Swing	Basket Level	Basket Rotate
R*/C**	R	C	R	R	C	R	C	C	C	C	C
R = Indicates Reversal is Activated											
C=Indicates Cutout is Activated											
*DOSEnabled											
** DOS Not Enabled, machine is driving straight without steering, and any other hydraulic function is active											
0,											
×C											

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 7.4, Oscillating Axle Lockout Test (If Equipped) for procedure.

order

4.13 SHUT DOWN AND PARK

- **NOTE:** When parking overnight, batteries should be charged properly to ensure readiness for following workday.
- **NOTE:** Electric machines are equipped with a static strap due to static electricity build-ups. Strap is located under rear of machine chassis.

To shut down and park the machine, the procedures are as follows:

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

SECTION 4 - MACHINE OPERATION

4.14 LIFTING AND TIE DOWN

Lifting

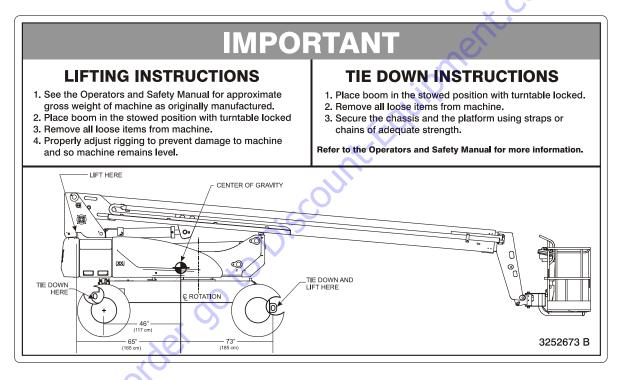
- 1. Refer to the Machine Serial Number Plate, call JLG Industries, or weigh the individual unit to find out the Gross Vehicle Weight.
- 2. Place the boom in the stowed position.
- 3. Remove all loose items from the machine.
- **4.** Properly adjust the rigging to prevent damage to the machine and so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

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.





4.15 TOWING INSTRUCTIONS

WARNING

THE MACHINE HAS NO TOWING BRAKES. THE TOWING VEHICLE MUST BE ABLE TO CONTROL THE MACHINE AT ALL TIMES. TOWING IS NOT PERMITTED ON HIGHWAY.

WARNING

KEEP ALL BODY PARTS AWAY FROM MOVING COMPONENTS.

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS INJURY.

CAUTION

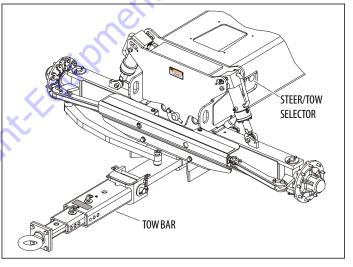
MAXIMUM TOWING SPEED: 5 MPH (8 KPH) FOR A DISTANCE OF 5 MILES (8K).

MAXIMUM TOWING GRADE: 25%

The following instructions are for towing using the optional tow bar.

- 1. Lock the turntable in the travel position, with the boom fully lowered and retracted.
- 2. Lower the tow bar to the towing position and connect to the towing vehicle.

- 3. Disengage the drive hubs.
- 4. Position the steer/tow selector to the towing (out) position.



5. To return the machine to the self-propelled mode, follow the above steps in the reverse order.

4.16 DRIVE HUB

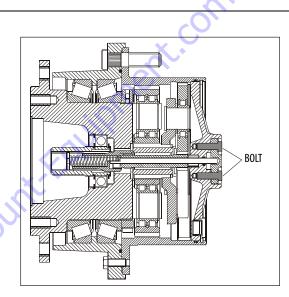
Disengaging for Towing

CAUTION

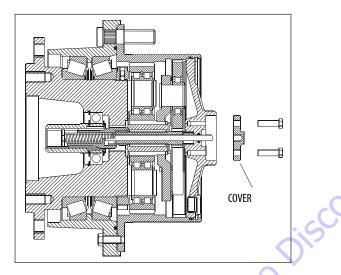
MAKE SURE THE DISCONNECT MECHANISM IS ONLY OPERATED WITH THE MACHINE AT A STANDSTILL.

< 0 order 00 tu

1. Remove the two hex head bolts from the cover.

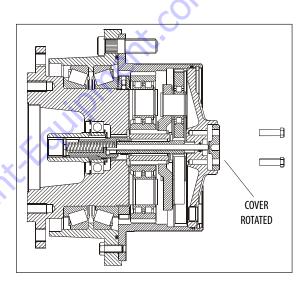


2. Remove the cover.



3. Rotate the cover to show the inside diameter

· o order of



- **4.** Install the bolts and torque 6.3 ft. lbs. (8.8 Nm) until they are flush with the cover.
- 5. The machine is ready to be towed.



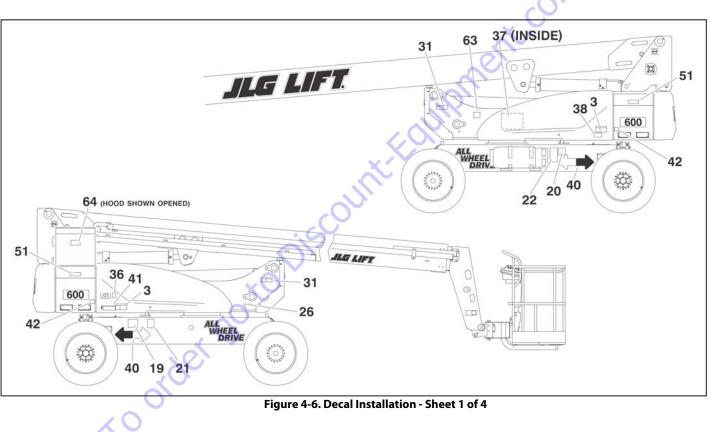
BEFORE THE MACHINE IS SEPARATED FROM THE TOWING VEHICLE, EITHER THE DRIVE HUB HAS TO BE REENGAGED OR PROPER STEPS MUST BE TAKEN TO PREVENT THE MACHINE FROM MOVING.

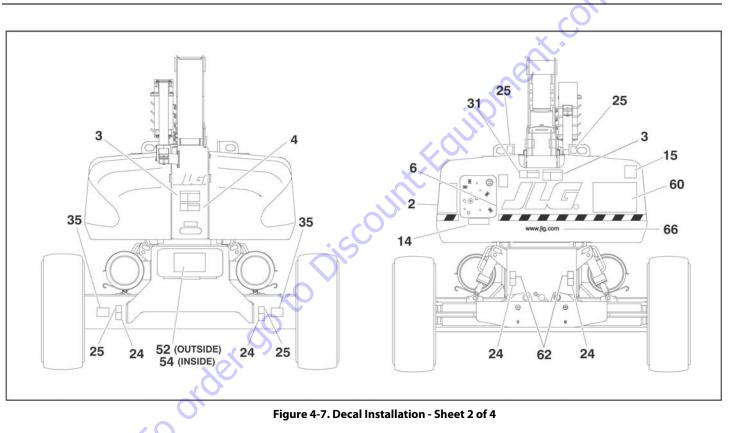
Engaging after Towing is Complete

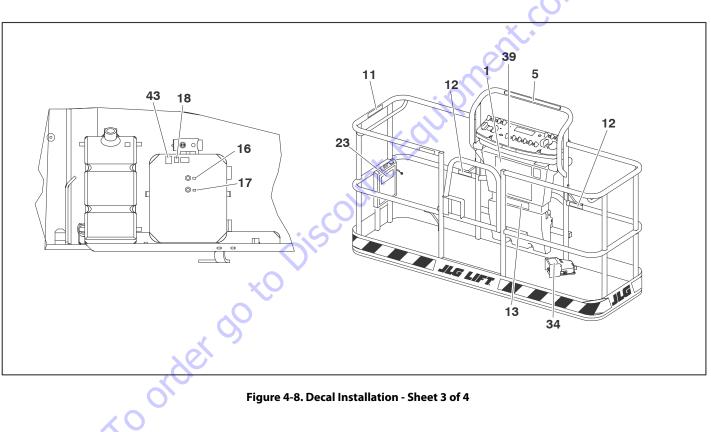


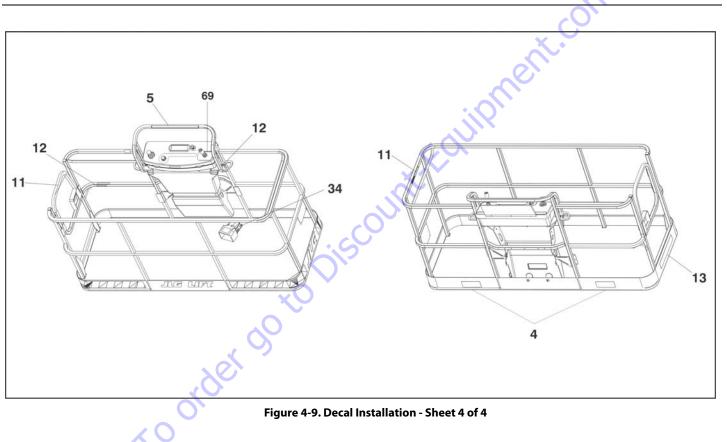
- 1. Remove the 2 hex head bolts securing the cover evenly and remove the cover.
- **2.** Rotate the cover 180 degrees and secure with the two hex head bolts.
- 3. Torque the hex head bolts 6.3 ft.lbs. (8.8 Nm).
- **4.** The gear drive should now be reengaged and the machine can be disconnected from the towing vehicle.

order









item #	ANSI 0270129-G	CE/Aus 0275062-D	Japan 0270146-D	Korean/Eng 0270148-D	Eng/Spanish 0270150-D	Eng/French 0270152-E	Chinese/Eng 0270154-D	Port./Spa 0270156-D
1	1703797	1705921	1703926	1703927	1703923	1703924	1703925	1703928
2	1704575	1705822	1704667	1704668		×		
3	1703805		1703938	1703939	1703935	1703936	1703937	1703940
4	1703804	1701518	1703950	1703951	1703947	1703948	1703949	1703952
5	1001196811			~	1001196811	1001196811		
6	1707035				1707035	1707035		
7				<u> </u>				
8				<u> </u>				
9								
10								
11	1702868		Å C		1704001	1704000	1001116846	1704002
12	1704277	1704277	1704277	1704277	1704277	1704277	1704277	1704277
13	1001121801	1705978	1001121808	1001121918	1001121805	1001121803	1001121810	1001121920
14	1001121814	1705978	1001121821	1001121921	1001121818	1001121816	1001121823	1001121923
15		1705084						
16	1701502	1701502	1701502	1701502	1701502	1701502	1701502	1701502
17	1701503	1701503	1701503	1701503	1701503	1701503	1701503	1701503

Table 4-1. Decal Legend

(0)

Table 4-1. Decal Legend

. .

ltem #	ANSI 0270129-G	CE/Aus 0275062-D	Japan 0270146-D	Korean/Eng 0270148-D	Eng/Spanish 0270150-D	Eng/French 0270152-E	Chinese/Eng 0270154-D	Port./Spa 0270156-D
18	1701504	1701504	1701504	1701504	1701504	1701504	1701504	1701504
19								1704008
20	1702631	1702631	1702631	1702631	1702631	1702631	1702631	1702631
21	1001131269				-7	1001131269		
22	1706948		1706948	1706948	1706948	1706948	1706948	1706948
23	1701509	1701509	1701509	1701509	1701509	1701509	1701509	1701509
24	1702300	1702300	1702300	1702300	1702300	1702300	1702300	1702300
25	1701500	1701500	1701500	1701500	7701500	1701500	1701500	1701500
26	1701529	1701529	1701529	1701529	1701529	1701529	1701529	1701529
27				3				
28				J				
29			<u></u> O					
30								
31	1703953	1701518	1703944	1703945	1703941	1703942	1703943	1703946
32		,	う					
33								
34	3252347	1705828	1703980	1703981	1703983	1703984	1703982	1703985
35	1704708	1704708	1704708	1704708	1704708	1704708	1704708	1704708
	20							

Table 4-1. Decal Legend

1701644 1704705 1706392 1701501 1706378 1702155 1704412	1701644 1704705 1704119 1701501 1704331 1702155 1704412	1701644 1704705 1704120 1701501 1704332 1702155 1704412	1701644 1704705 1704117 1701501 1704328 1702155	1701644 1704705 1704116 1705514 1701501 1704329 1702155	1701644 1704705 1704121 1701501 1704333	1701644 1704705 1704118 1701501 1704330
1706392 1701501 1706378 1702155	1704119 1701501 1704331 1702155	1704120 1701501 1704332 1702155	1704117 1701501 1704328	1704116 1705514 1701501 1704329	1704121 1701501 1704333	1704118 1701501
 1701501 1706378 1702155	 1701501 1704331 1702155	 1701501 1704332 1702155	 1701501 1704328	1705514 1701501 1704329	 1701501 1704333	1701501
1701501 1706378 1702155	1701501 1704331 1702155	1701501 1704332 1702155	1701501 1704328	1701501 1704329	1701501 1704333	
1706378 1702155	1704331 1702155	1704332 1702155	1704328	1704329	1704333	
1702155	1702155	1702155				1704330
			1702155	1702155		
1704412	1704412	1704412			1702155	1702155
			1704412	1704412	1704412	1704412
		<u> </u>				
		2				
	>					
	<u> - O -</u>					
	· · ·					
1705670	1704342	1704343	1704339	1704340	1704344	1704341
1706377	3252738	3252739	3252740	3252743	3252741	3252742
		1706377 3252738	1706377 3252738 3252739	1706377 3252738 3252739 3252740	1706377 3252738 3252739 3252740 3252743	1706377 3252738 3252739 3252740 3252743 3252741

Table 4-1. Decal Legend

ltem #	ANSI 0270129-G	CE/Aus 0275062-D	Japan 0270146-D	Korean/Eng 0270148-D	Eng/Spanish 0270150-D	Eng/French 0270152-E	Chinese/Eng 0270154-D	Port./Spa 0270156-D
54	1001209679	100209679	1001209679	1001209679	1001209679	1001209679	1001209679	1001209679
55								
56						<u> </u>		
57								
58								
59					X			
60					1703929	1703930	1703931	1703934
61								
62	1701499	1701499	1701499	1701499	1701499	1701499	1701499	1701499
63	1702391	1701517	1701517	1701517	1701517	1701517	1701517	1701517
64	1704725	1704728	1704671	1704670	1704732	1704733	1704731	1704618
65			νŪ					
66	1704885	1704885	1704885	1704885	1704885	1704885	1704885	1704885
67			0					
68			ク					
69	1705351	$\overline{\mathbf{O}}$	1705426	1705427	1705910	1705429	1705430	1001113680
70		J.G.						
	~0	2/-						

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

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 10 FT (3 M) 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.
- **4.** From the ground controls, use the Auxiliary Power System (if equipped) to carefully free the platform or boom from the object.
- 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.

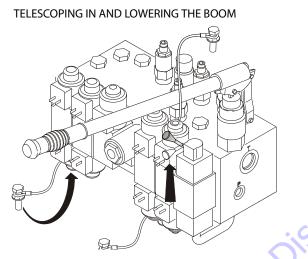
5.4 EMERGENCY TOWING PROCEDURES

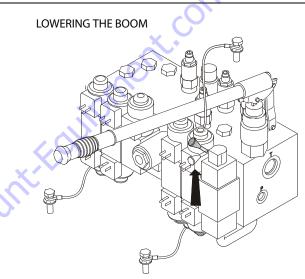
Towing this machine is prohibited, unless properly equipped. However, provisions for moving the machine have been incorporated. For specific procedures, refer to Section 4.

5.5 MANUAL DESCENT SYSTEM

The manual descent system is used, in the event of total power failure, to lower the boom using gravity. To operate the manual descent system, proceed as follows:

SECTION 5 - EMERGENCY PROCEDURES



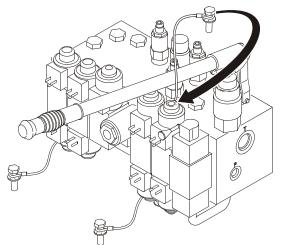


- 1. Install the spool plug in the location shown and push the control lever on the valve up.
- **2.** Install the handle into the hand pump and pump the handle until the desired platform position is reached.
- **3.** Push the control lever down when complete. Remove the handle from the hand pump and the spool plug from the valve.

- 1. Push the control lever on the valve up.
- **2.** Install the handle into the hand pump and pump the handle until the desired platform position is reached.
- **3.** Push the control lever down when complete. Remove the handle from the hand pump.

SECTION 5 - EMERGENCY PROCEDURES

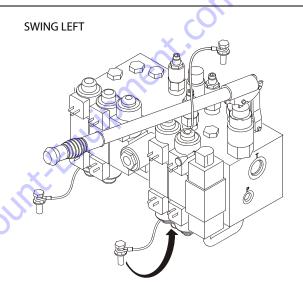
SWING RIGHT



- 1. Install the spool plug in the location shown.
- 2. Install the handle into the hand pump and pump the handle until the desired platform position is reached.

~01-

3. Remove the handle from the hand pump.

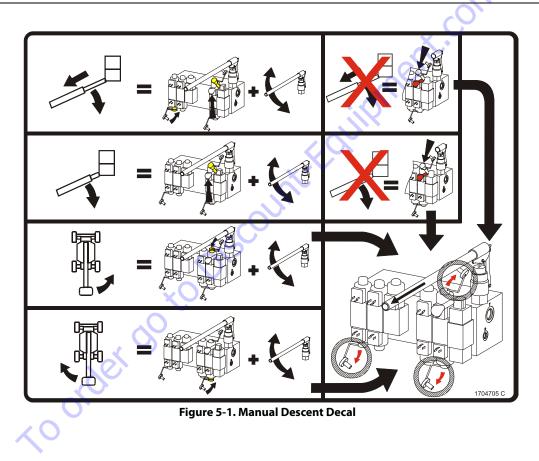


- 1. Install the spool plug in the location shown.
- **2.** Install the handle into the hand pump and pump the handle until the desired platform position reached.
- 3. Remove the handle from the hand pump.



REMOVE ALL SPOOL PLUGS BEFORE RETURNING UNIT TO SERVICE.

SECTION 5 - EMERGENCY PROCEDURES



5.6 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 will flash and a fault code is set 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.

order

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.

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

SECTION 6 - ACCESSORIES

K.C

SECTION 6. ACCESSORIES

				Market	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Accessory	ANSI (USA Only)	ANSI	CSA	CE	AUS	Japan	China
Soft Touch	\checkmark		\checkmark				\checkmark
SkyGlazier™			V	V	\checkmark		
Fall Arrest Platform (36x60)			X	¥			\checkmark
Fall Arrest Platform (36x72)			V			\checkmark	
Bolt-On External Fall Arrest (36x72)		V	√ √				
Bolt-On External Fall Arrest (36x96)	\checkmark	• V					
order	do to						

6.1 FALL ARREST PLATFORM

NOTE: Refer to JLG External Fall Arrest System manual (P/N-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 lbs. (408 kg) for the transfastener type and 1350 lbs. (612 kg) for the shuttle type fall arrest system.

WARNING

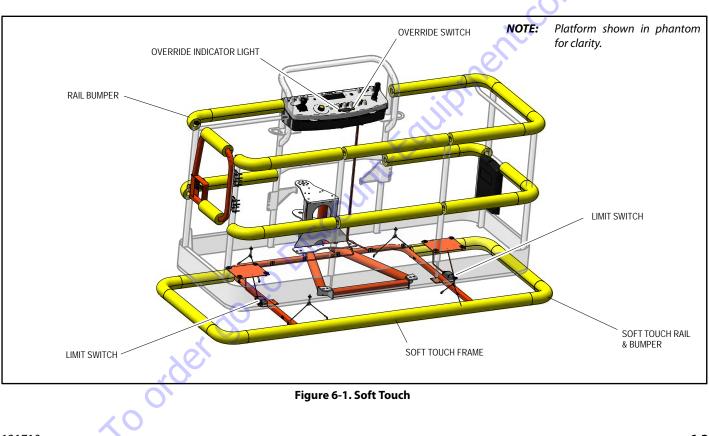
DO NOT OPERATE ANY MACHINE FUNCTIONS WHILE OUTSIDE OF PLATFORM. BE CAREFUL WHEN ENTERING/EXITING THE PLATFORM AT ELEVATION.

oru

6.2 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.

SECTION 6 - ACCESSORIES



6.3 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 lbs. (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.

WARNING

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



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.



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:

order got

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

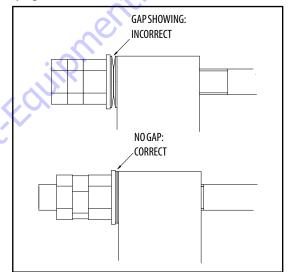


Figure 6-2. Bolt-On External Fall Arrest Cable Tension

SECTION 6 - ACCESSORIES

- 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.

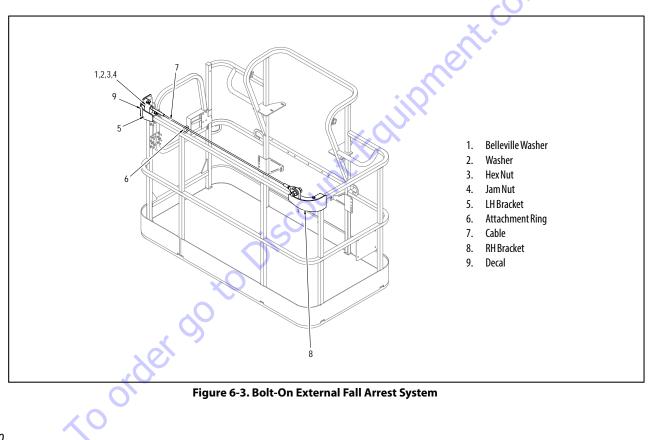
order go to Dist

- Attaching Hardware: Inspect all attaching hardware to ensure there are no missing components and hardware is properly tightened.
- Platform Rails: No visible damage is acceptable.

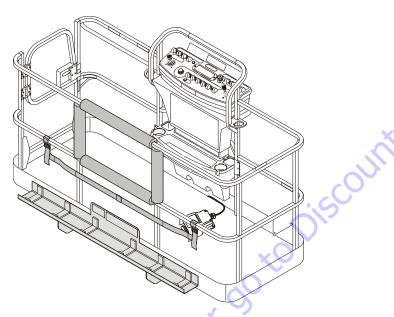
1

- count-Fat

SECTION 6 - ACCESSORIES



6.4 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

Max. Tray Capacity	Max. Platform Capacity (With Max. Weight in Tray)
150 lbs	250 lbs
(70 kg)	(110 kg)
150 lbs	250 lbs
(68 kg)	(113 kg)
150 lbs	250 lbs
(68 kg)	(113 kg)
150 lbs	440 lbs
(68 kg)	(200 kg)
250 lbs	500 lbs
(113 kg)	(227 kg)
*Refer to the canad	rity decals installed on the

* 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

WARNING

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 SPECIFICATIONS TABLE ABOVE. DO NOT EXCEED THE NEW PLATFORM CAPACITY RATING. REFER TO CAPACITY DECAL LOCATED ON TRAY.

WARNING

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.
- Route the adjustable strap around the panel and tighten until secure.
- 3. Position panel to its desired location.

TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

NOTES:	ant.con
	03
<u> </u>	
6-10	3121710

SECTION 7. GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

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	

order of

7.2 OPERATING SPECIFICATIONS

Table 7-1. Operating Specifications

Maximum Work Load (Capacity) ANSI Markets	
Unrestricted:	500 lb. (227 kg)
Maximum Work Load (Capacity) CE & Australia Markets	
Vnrestricted:	500 lb. (230 kg)
Maximum Travel Grade (Gradeability) with Boom retracted and approximately horizontal. Tower Boom fully lowered.	30%
Maximum Travel Grade (Side Slope) with Boom retracted and approximately horizontal. Tower Boom fully lowered.	5°
Tilt Alarm Setting (See Section 3)	
ANSI, CSA	5°
CE E/M600 & E/M600J	4°
CE E/M 600JP	3°
Maximum Vertical Platform Height:	60 ft. (18.29 m)
Maximum Horizontal Platform Reach	
E600	43 ft. (13.11 m)
E600J	42 ft. 9 in. (13.11 m)

SECTION 7 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

Table 7-1. Operating Specifications

Capacities

Machine Width 2WD	7 ft. 117/16 in. (2.42 m)	
4WD	7 ft. 11 3/8 in. (2.42 m)	Generator Fuel Tar
Machine Length		Hydraulic Tank
E/M600	30 ft. 11 5/16 in. (9.43 m)	
E/M600J	30 ft. 8 15/16 in. (9.37 m)	Drive Hub
E/M600JP	33 ft. 3 3/4 in. (10.15 m)	
Turning Radius (outside)	15 ft. 3 in. (4.65 m)	Tires
Turning Radius (inside)	4ft. (1.23 m)	Tires
Maximum Tire Load:	7700 lbs. (3493 kg)	
Maximum Ground Bearing Pressure		
E600J/M600J	52 psi (3.7 kg/cm ²⁾	
E600JP/M600JP	51 psi (3.6 kg/cm ²⁾	36/
Maximum Drive Speed:	3.0 mph (1.3 m/s)	36/
Electrical System Voltage	48 volts	
Maximum Hydraulic System Pressure	3200 psi (221 Bar)	
Maximum Wind Speed	28 mph (12.5 m/s)	
Maximum Manual Force	400N	
Gross Machine Weight (Platform Empty)		
E600J/M600J	16,710lb. (7,580kg)	
E600JP/M600JP	17,210 lb. (7,806 kg)	

Table 7-2. Capacities

Generator Fuel Tank (M Models Only)	13 gallons (49.2 liters)
Hydraulic Tank	15.9 gal.(60.2 L)
	12.4 gal. (46.9 L) to full mark
Drive Hub	0.4 gal. (1.5 liters)

Table 7-3. Tires

Size	Туре	Pressure
36/14LL-22.5	pneumatic	55 psi (4.0 Bar)
36/14LL-22.5	foam filled	N/A

Hydraulic Oil

Table 7-4. 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.

CONC.

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 DTE 10 is desired, contact JLG Industries for proper recommendations.

Table 7-5. DTE 10 Excel 15 Specs

ISO Viscosity Grade	#15	
Pour Point, Max	-65°F(-54°C)	
Flash Point, Min.	360°F (182°C)	
Viscosity		
at 40°C	15.8 cSt	
at 100°C	4.1cSt	
at 100°F	15.8 cSt	
at 210°F	4.1cSt	
Viscosity Index	168	

< o order got

Table 7-6. Mobil EAL Envirosyn H 32 Specs

Туре	Synthetic Biodegradable	
ISO Viscosity Grade	32	
Density at 15° C	.869	
Pour Point, Max	-38°F (-39°C)	
Flash Point, Min.	514°F(268°C)	
Viscosity		
at 40°C	33.1 cSt	
at 100°C	6.36 cSt	
Viscosity Index	147	

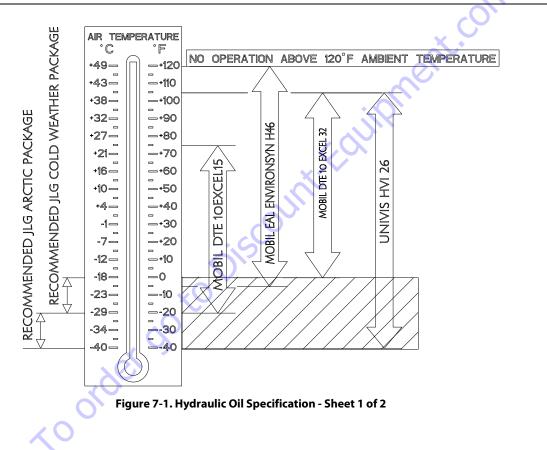
Table 7-7. Mobil EAL Envirosyn SHC 32 Specs

Туре	Synthetic Biodegradable	
ISO Viscosity Grade	32	
Density at 15°C	.936	
Pour Point, Max	-27°F (-33°C)	
Flash Point, Min.	540°F (282°C)	
Viscosity		
at 40°C	33.1cSt	
at 100°C	6.2 cSt	
Viscosity Index	152	

SECTION 7 - GENERAL SPECIFICATIONS & OPERATOR MAINTENANCE

Table 7-8. DTE 10 Excel 32 Specs

Table 7-8. DTE 1	0 Excel 32 Specs	- uipment.cu
ISO Viscosity Grade	32	
Pour Point, Max	-65°F (-54°C)	
Flash Point, Min.	482°F (250°C)	- uni-Fauipri
Visco	osity	
at 40°C	32.7 cSt	
at 100°C	6.63cSt	
at 100°F	32.7 cSt	
at 212°F	6.63cSt	
Viscosity Index	164	
121710	dergoto	
121710		



1001211621 A

Fluid	Properties B		Base	Base			Classi?cation		ant.		
Description	Visc @ 40 C	Visc Index	Mineral Oils	Vegetable Oils	Synthetic	Synthetic Polyol Esters	Water Glycol	Readilly Biodegradeable*	Virtually Non-toxic**	Fire Resistant***	NOTES: DRIVE PERFORMANCE MAY BE REDUCED BELOW 0 DEG F NOTICE: MACHINE OPERATION USING NON-JLG APPROVED HYDRAULIC FLUIDS OR OPERATION OUTSIDE OF THE TEMPERATURE BOUNDARIES OUTLINES IN THE "HYDRAULIC FLUID OPERATION CHART" MAY RESULT IN PREMATURE WEAR OR DAMAGE TO COMPONENTS OF THE HYDRAULIC SYSTEM. * Readily biodegradable classi?cation indicates one of the following: CO2 Conversion>60% per EPA 560/6-82-003 CO2 Conversion>80% per CEC-L-33-A-93 ** Virtually Non-toxic classi?cation indicates an LC50>5000 ppm per OECD 203 ** Fire Resistant classi?cation indicates
Mobil DTE 10Excel32	32	141	Х								Factory Mutual Research Corp. (FMRC) Approval
UNIVIS HVI 26	26	376	Х								
Mobil EAL Env H 46	46	145			Х			Х	X		
Mobil DTE 10EXCEL15	15	168	Х								
	Fig	gure 7-	2. Hye	drauli	c Oil	Speci	ficatio	on - S	heet	2 of 2	001211621 A

Major Component Weights

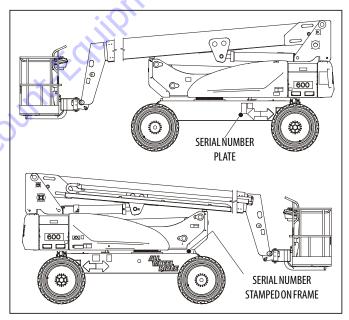
Component	Pounds	Kilograms
Frame (bare)	1381	626
T/T (bare)	2093	950
Boom Assembly (E/M 600)	4464	2025
Boom Assembly (E/M 600J)	4464	2025
Tire & Wheel	226	102.5
Swing Drive	70	32
Swing Bearing	100	45.4
Platform Console	25	11
Side Entry Platform - 30x72 (bare)	175	80
Side Entry Platform - 30x48 (bare)	144	66
Counterweight	2560	1161

<0 order gt

Table 7-9. Component Weights

Serial Number Location

A serial number plate is affixed to the right side of the frame. If the serial number plate is damaged or missing, the machine serial number is stamped on the left side of the frame at the top.





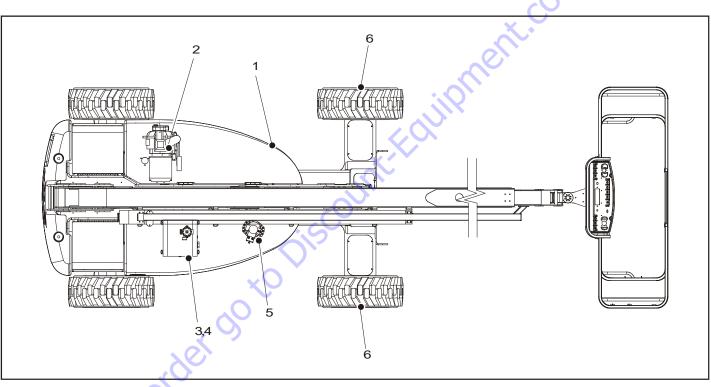


Figure 7-4. Operator Maintenance and Lubrication Diagram

7.3 OPERATOR MAINTENANCE

NOTE: The following numbers correspond to those in Figure 7-4., Operator Maintenance and Lubrication Diagram.

Table 7-10. Lubrication Specifications.

KEY	SPECIFICATIONS
MPG	Multipurpose Grease having a minimum dripping point of 350 degrees F. Excellent water resistance and adhesive qualities; and being of extreme pressure type (Timken OK 40 pounds minimum).
EPGL	Extreme Pressure Gear Lube (oil) meeting API Service Classification GL-5 or Mil-Spec Mil-L-2105.
HO	Hydraulic Oil. Mobil DTE-11M
0G*	Open Gear Lube - Tribol Molub-Alloy 936 Open Gear Compound. (JLG Part No. 3020027)
BG*	Bearing Grease (JLG Part No. 3020029) Mobilith SHA 460.
LL	Synthetic Lithium Lubricant, Gredag 741 Grease. (JLG Part No. 3020022)
EO	Engine (crankcase) Oil. Gas - API SF/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.



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) - 1 Grease Fittings Capacity - A/R Lube - MPG Interval - Every 3 months or 150 hrs of operation

2. Generator Engine (If Equipped)



KO Order go to



Lube Point(s) - Fill Cap Capacity - Refer to engine manual Lube - EO Interval - Check daily. Change in accordance with engine manual.

3. Hydraulic Tank



Lube Point(s) - Fill Cap Capacity - 15.9 gal. system (56.7L) 12.4 gal. (46.9 L) to Full Mark Lube - HO

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

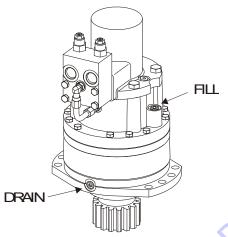
4. Hydraulic Filter



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

Comments - Under certain conditions, it may be necessary to replace the filter on a more frequent basis.

5. Swing Drive Hub



Lube Point(s) - Level/Fill Plug Capacity - 24 oz. (0.7 L) Lube - EPGL Interval - Check level every 3 months or 150 hrs of operation;

change every 2 years or 1200 hours of operation

orde

6. Wheel Drive Hub



Lube Point(s) - Level/Fill Plug Capacity - 0.4 gal. (1.5 L) Lube - EPGL Interval - Check level every 3 months or 150 hrs of operation; change every 2 years or 1200 hours of operation

7.4 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 inches (15.2 cm) high block with ascension ramp in front of left front wheel.
 - 2. From platform control station, start engine
 - Place the Drive control lever to the forward position and carefully drive machine up ascension ramp until left front wheel is on top of block.
 - **4.** Carefully activate Swing control lever and position boom over right side of machine.
 - 5. With boom over right side of machine, place Drive control lever to Reverse and drive machine off of block and ramp.
 - **6.** Have an assistant check to see that left front or right rear wheel remains elevated in position off of ground.
 - **7.** 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.

- **8.** Place the 6 inches (15.2 cm) high block with ascension ramp in front of right front wheel.
- **9.** Place Drive control lever to Forward and carefully drive machine up ascension ramp until right front wheel is on top of block.
- **10.** With boom over left side of machine, place Drive control lever to Reverse and drive machine off of block and ramp.
- **11.** Have an assistant check to see that right front or left rear wheel remains elevated in position off of ground.
- **12.** 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 activate Drive to release cylinders.
- **13.** If lockout cylinders do not function properly, have qualified personnel correct the malfunction prior to any further operation.

7.5 TIRES & WHEELS

Tire Inflation

The air pressure for pneumatic tires must be equal to the air pressure that is stenciled on the side of the JLG product or rim decal for safe and proper operational characteristics.

Tire Damage

For pneumatic tires, JLG Industries, Inc. recommends that when any cut, rip, or tear is discovered that exposes sidewall or tread area cords in the tire, measures must be taken to remove the JLG product from service immediately. Arrangements must be made for replacement of the tire or tire assembly.

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, 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

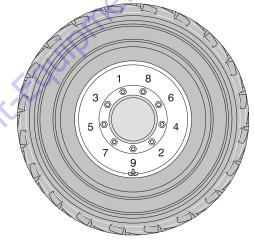
It is extremely important to apply and maintain proper wheel mounting torque.

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 mounting stud holes in the wheels. The proper procedure for attaching wheels is as follows:

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



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

Table 7-11. Wheel Torque Chart

TORQUE SEQUENCE					
1st Stage	2nd Stage	3rd Stage			
40 ft. lbs. (55 Nm)	100 ft. lbs. (130 Nm)	170 ft. lbs. (255 Nm)			

o order go to Dit.

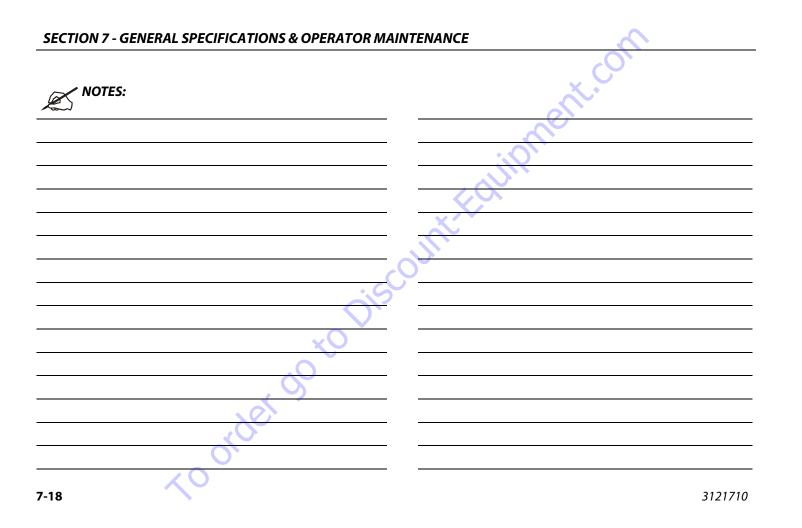
7.6 SUPPLEMENTAL INFORMATION

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

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

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

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



SECTION 8 - INSPECTION AND REPAIR LOG

SECTION 8. INSPECTION AND REPAIR LOG

lachine Serial Number				
Table 8-1. Inspection and Repair Log				
Date	Comments			
	·······································			
	<u>xO</u>			
	<u> </u>			
	1 CI			
	X ^O			
	0			
121710	– JLG Lift –	8		

SECTION 8 - INSPECTION AND REPAIR LOG





TO PURCHASE THIS PRODUCT PLEASE CONTACT US



Equipment Financing and Extended Warranties Available



Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales. 561-964-4949

visit us on line @ www.discount-equipment.com

Select an option below to find your Equipment

Search by Manufacturer

Search by Product Type

Request a Quote

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

