



# ***Operation & Safety Manual***

*Original Instructions  
Keep this manual with machine at all times.*

***Models  
266, 307  
&  
266 LoPro***

**3126023**

*Revised  
August 28, 2012*





## **REVISION LOG**

January 14, 2005 - A - Original Issue of Manual

June 10, 2005 - B - Revised pages 2-6, 2-8, 2-9, 2-18, 4-12 thru 4-14, 4-16, 4-18, 4-20, 4-22, 6-2, 6-3, 6-6 thru 6-8, 6-10, 6-12 thru 6-15, 7-1 & 8-1.

December 7, 2005 - C - Revised Manual to add 266 LoPro.

August 30, 2006 - D - Revised pages 2-2, 2-29, 2-30, 4-11, 4-12, 6-14, 8-2 & 8-3.

January 29, 2008 - E - Revised pages 2-4, 2-5, 2-26, 4-10 & 4-22, added pages 4-27, 4-28. Revised Hazard Classification signal box colors to standard black.

April 17, 2008 - F - Added pages 5-6 & 5-7. Reformat manual sections. Added "CE" and "AUS" marking to pages 5-14 thru 5-32. Revised pages 1-4, 1-10, 2-3, 3-2, 3-12 thru 3-16, 3-19, 3-20, 4-4 thru 4-6, 5-12, 5-29 & 9-2.

May 23, 2008 - G - Revised pages c, d, 1-4, 2-3, 4-5, 4-8, 5-4, 5-5, 5-12, 5-14, 5-18, 5-20, 5-22, 5-23, 5-24, 5-26, 9-2, & 9-3.

April 27, 2011 - H - Revised covers and pages b, c, d, 1-1 thru 1-13, 2-1, 2-6 thru 2-9, 3-3, 3-7, 3-8, 3-11, 3-13, 3-14, 3-16, 3-18, 3-19, 3-20, 4-1, 4-2, 4-4, 4-7, 4-11, 5-1, 5-2, 5-4, 5-5, 5-7, 5-12, 5-15, 5-20, 5-28, 7-1, 7-2, 7-15 & 7-17.

August 28, 2012 - I - Revised page 5-16.

## ***Read This First***

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

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

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

## **Operator Qualifications**

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The operator of the machine must not operate the machine until this manual has been read, training is accomplished and operation of the machine has been completed under the supervision of an experienced and qualified operator. Operation within the U.S.A. requires training per OSHA 1910.178.

Operators of this equipment must possess a valid, applicable driver's license, be in good physical and mental condition, have normal reflexes and reaction time, good vision and depth perception and normal hearing. Operator must not be using medication which could impair abilities nor be under the influence of alcohol or any other intoxicant during the work shift.

In addition, the operator must read, understand and comply with instructions contained in the following material furnished with the telehandler:

- This Operation & Safety Manual
- Telehandler Safety Manual (as required)
- All instructional decals and plates
- Any optional equipment instructions furnished

The operator must also read, understand and comply with all applicable Employer, Industry and Governmental rules, standards and regulations.

## **Modifications**

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**Any modification to this machine must be approved by JLG.**

This product must comply with all safety related bulletins. Contact JLG Industries, Inc. or the local authorized JLG representative for information regarding safety-related bulletins which may have been issued for this product.

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.

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 damage has occurred to personal property or the JLG product.

**FOR:**

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

**CONTACT:**

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

or Your Local JLG Office  
(Addresses on back cover)

**In USA**

Toll Free: 1-877-JLG-SAFE (1-877-554-7233)

**Outside USA**

Phone: +1-717-485-6591

**E-mail**

ProductSafety@JLG.com

## ***Read This First***

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### **Other Publications Available**

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Service Manual.....	3126024
Illustrated Parts Manual.....	3126025
Load Management Indicator System Operation & Safety Manual (if equipped).....	Contact JLG

**Note:** *The following standards may be referenced in this manual:*

*ANSI is compliant to ANSI/ITSDF B56.6*

*AUS is compliant to AS 1418.19*

*CE is compliant to EN1459*

*Refer to the machine Serial Number Plate to identify the applicable compliance standard.*

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## SECTION 1 - GENERAL SAFETY PRACTICES

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### 1.1 HAZARD CLASSIFICATION SYSTEM

#### Safety Alert System and Safety Signal Words

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**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** indicates a potentiality hazardous situation which, if not avoided, may result in minor or moderate injury.

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### 1.2 GENERAL PRECAUTIONS



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

## Section 1 - General Safety Practices

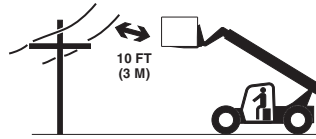
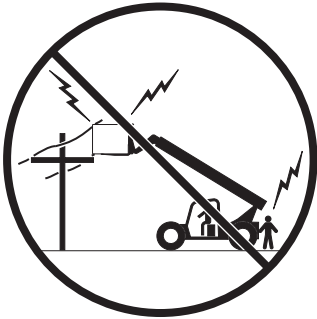
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### 1.3 OPERATION SAFETY

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#### Electrical Hazards

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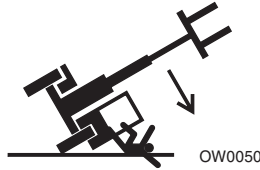
OW0040

- This machine is not insulated and does not provide protection from contact or being near electrical current.
- **NEVER** operate the telehandler in an area where overhead power lines, overhead or underground cables, or other power sources may exist without ensuring the appropriate power or utility company de-energizes the lines.
- Always check for power lines before raising the boom.
- Follow employer, local and governmental regulations for clearance from powerlines.

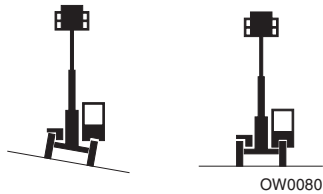
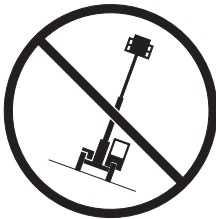
### Tip Over Hazard

#### General

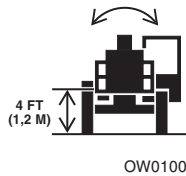
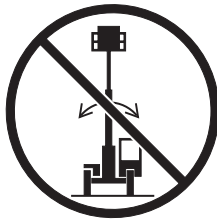
- For additional load requirements, refer to the appropriate capacity chart.



- Never use an attachment without the appropriate JLG approved capacity chart installed on the telehandler.
- Understand how to properly use the capacity charts located in cab.
- DO NOT** exceed rated lift capacity.
- Be sure that the ground conditions are able to support the machine.



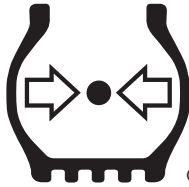
- DO NOT** raise boom unless frame is level (0 degrees), unless otherwise noted on capacity chart.



- DO NOT** level machine with boom/attachment above 1,2 m (4 ft). (AUS - **DO NOT** level machine with load more than 300 mm (11.8 in) above ground surface.)

## Section 1 - General Safety Practices

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- **MAINTAIN proper tire pressure** at all times. If proper tire pressures are not maintained, this machine could tip over.
- Refer to manufacturer's specifications for proper fill ratio and pressure requirements for tires equipped with ballast.



- Always wear the seat belt.
- Keep head, arms, hands, legs and all other body parts inside operator's cab at all times.



If the telehandler starts to tip over:

- **DO NOT JUMP**
- **BRACE YOURSELF** and **STAY WITH THE MACHINE**
- **KEEP YOUR SEAT BELT FASTENED**
- **HOLD ON FIRMLY**
- **LEAN AWAY FROM THE POINT OF IMPACT**

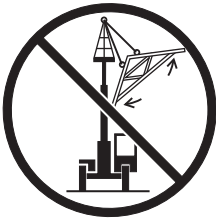
### Non-Suspended Load



OW0060

- **DO NOT** drive with boom raised.

### Suspended Load



OW0150

- Tether suspended loads to restrict movement.
- **DO NOT** raise the load more than 300 mm (11.8 in) above ground surface or the boom more than 45°.
- Weight of all rigging (slings, etc.) must be included as part of load.
- Start, travel, turn and stop slowly to prevent load from swinging.
- When driving with the boom raised, **DO NOT** exceed walking speed.
- Beware of wind. Wind can cause a suspended load to swing and cause dangerous side loads - even with tag lines.
- **DO NOT** attempt to use telehandler frame-leveling to compensate for load swing.
- Keep heavy part of load closest to attachment.
- Never drag the load; lift vertically.

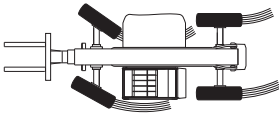
## Section 1 - General Safety Practices

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### Travel Hazard

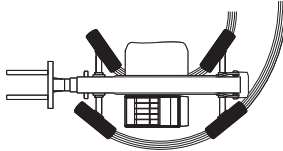
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2-Wheel Front Steer

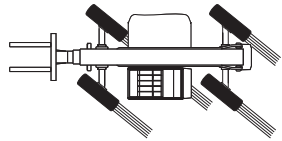


OAL2030

4-Wheel Circle Steer



4-Wheel Crab Steer



- Steering characteristics differ between steer modes. Identify the steer mode settings of the telehandler being operated.
- **DO NOT** change steer modes while traveling. Steer modes must be changed while telehandler is stationary.
- Visually verify proper wheel alignment after each steer mode change.
- Ensure that adequate clearance is provided for both rear tail swing and front fork swing.
- Look out for and avoid other personnel, machinery and vehicles in the area. Use a spotter if you do not have a clear view.
- Before moving be sure of a clear path and sound horn.
- When driving, retract boom and keep boom/attachment as low as possible while maintaining visibility of mirrors and maximum visibility of path of travel.
- Always look in the direction of travel.
- Always check boom clearances carefully before driving underneath overhead obstructions. Position attachment/load to clear obstacles.
- When driving in high speed, use only front wheel steer (if steering modes are selectable).



**Load Falling Hazard**

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OW0130

- Never suspend load from forks or other parts of carriage.
- **DO NOT** burn or drill holes in fork(s).
- Forks must be centered under load and spaced apart as far as possible.

## Section 1 - General Safety Practices

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### Lifting Personnel

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OW0170

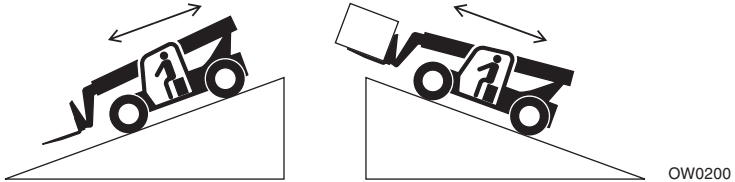
- When lifting personnel, **USE ONLY** a JLG approved personnel work platform, with proper capacity chart displayed in the cab.



OW0190

- **DO NOT** drive machine from cab when personnel are in platform.

### Driving Hazards on Slopes



To maintain sufficient traction and braking capabilities, travel on slopes as follows:

- When unloaded, the rear of the machine is the “heavy end.” Drive with forks pointed downhill.
- When loaded, the front of the machine is the “heavy end.” Drive with the forks pointed uphill.
- For additional travel requirements, refer to the appropriate capacity chart.
- To avoid overspeeding the engine and drivetrain when driving down slopes, downshift to a lower gear and use the service brake as necessary to maintain a slow speed. **DO NOT shift into neutral and coast downhill.**
- Avoid excessively steep slopes or unstable surfaces. To avoid tip over **DO NOT** drive across excessively steep slopes under *any* circumstances.
- Avoid turning on a slope. Never engage “inching” or shift to “Neutral” when going downhill.
- **DO NOT** park on a slope.

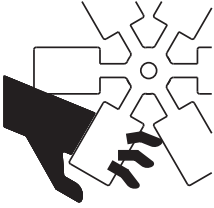
## Section 1 - General Safety Practices

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### Pinch Points and Crush Hazards

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Stay clear of pinch points and rotating parts on the telehandler.



OW0210

- Stay clear of moving parts while engine is running.



OW0220

- Keep clear of steering tires and frame or other objects.



OW0230

- Keep clear from under boom.

## Section 1 - General Safety Practices

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OW0240

- Keep clear of boom holes.



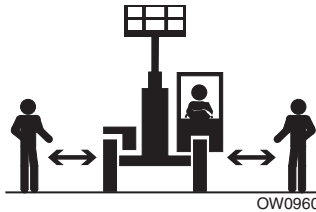
OW0250

- Keep arms and hands clear of attachment tilt cylinder.



OW0260

- Keep hands and fingers clear of carriage and forks.



OW0960

- Keep others away while operating.

## Section 1 - General Safety Practices

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### Fall Hazard

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- Enter using the proper hand holds and steps provided. Always maintain 3-point contact when mounting or dismounting. Never grab control levers or steering wheel when mounting or dismounting the machine.
- **DO NOT** get off the machine until the shutdown procedure on page 4-3 has been performed.



- **DO NOT** carry riders. Riders could fall off machine causing death or serious injury.

### Chemical Hazards

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#### Exhaust Fumes

- **DO NOT** operate machine in an enclosed area without proper ventilation.
- **DO NOT** operate the machine in hazardous environments unless approved for that purpose by JLG and site owner. Sparks from the electrical system and the engine exhaust can cause an explosion.
- If spark arrestors are required, ensure they are in place and in good working order.

#### Flammable Fuel



- **DO NOT** fill the fuel tank or service the fuel system near an open flame, sparks or smoking materials. Engine fuel is flammable and can cause a fire and/or explosion.

#### Hydraulic Fluid



- **DO NOT** attempt to repair or tighten any hydraulic hoses or fittings while the engine is running or when the hydraulic system is under pressure.
- Stop engine and relieve trapped pressure. Fluid in the hydraulic system is under enough pressure that it can penetrate the skin.
- **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks. Wear gloves to protect hands from spraying fluid.

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## SECTION 2 - PRE-OPERATION AND INSPECTION

### 2.1 PRE-OPERATION CHECKS AND INSPECTION

**Note:** Complete all required maintenance before operating unit.

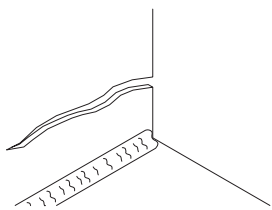


## WARNING

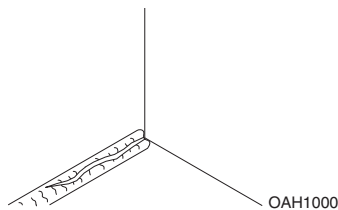
**FALL HAZARD.** Use extreme caution when checking items beyond your normal reach. Use an approved ladder.

The pre-operation check and inspection, performed at beginning of each work shift or at each change of operator, should include the following:

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



PARENT METAL CRACK



WELD CRACK

3. **Safety Decals** - Ensure all safety decals are legible and in place. Clean or replace as required. See page 2-3 for details.
4. **Operation and Safety Manuals** - Operation & Safety Manual and AEM Safety Manual (as required) are located in cab manual holder.
5. **Walk-Around Inspection** - See page 2-6 for details.
6. **Fluid Levels** - Check fluids, including fuel, hydraulic oil, engine oil and coolant. When adding fluids, refer to Section 7 - Lubrication and Maintenance and Section 9 - Specifications to determine proper type and intervals. Before removing filler caps or fill plugs, wipe all dirt and grease away from the ports. If dirt enters these ports, it can severely reduce component life.
7. **Attachments/Accessories** - Ensure correct capacity charts are installed on the telehandler. If provided, reference the Operation & Safety Manual of each attachment or accessory installed for specific inspection, operation and maintenance instructions.

## ***Section 2 - Pre-Operation And Inspection***

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8. **Operational Check** - Once the walk-around inspection is complete, perform a warm-up and operational check (see page 2-8) of all systems in an area free of overhead and ground level obstructions. See Section 3 - Controls And Indicators for more specific operating instructions.

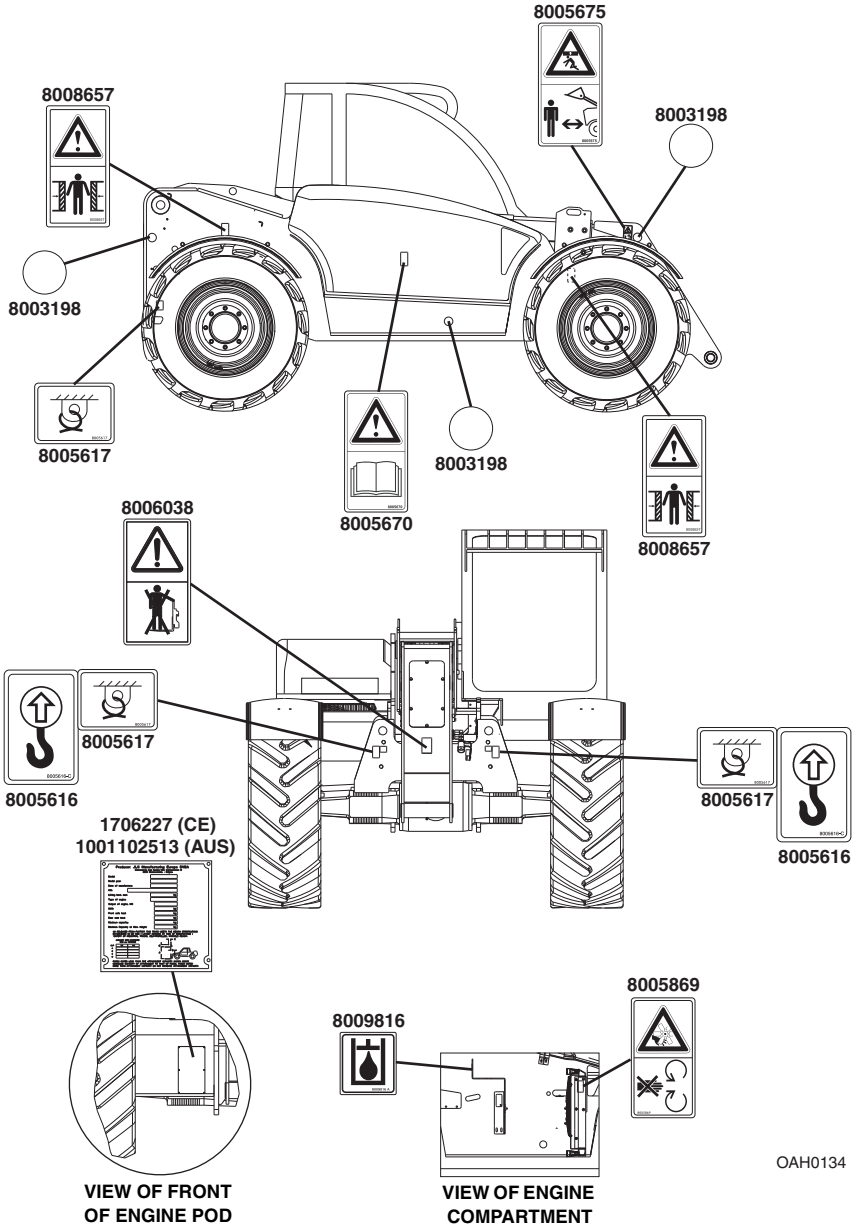


# **WARNING**

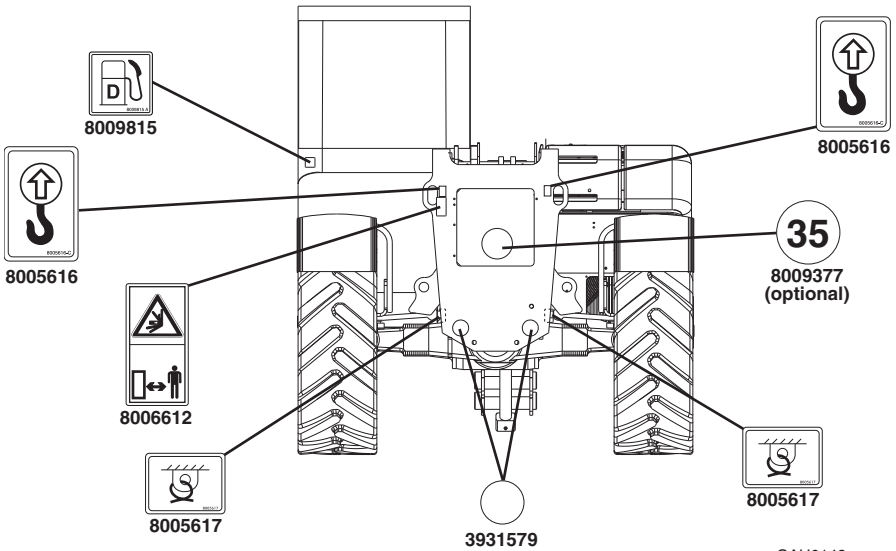
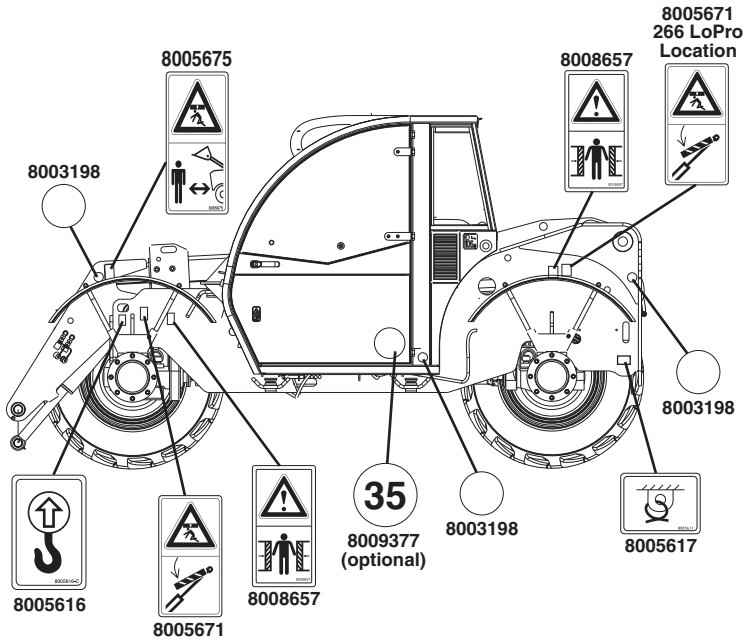
If telehandler does not operate properly, immediately bring machine to a stop, lower boom and attachment to ground and stop the engine. Determine cause and correct before continued use.

2.2 SAFETY DECALS

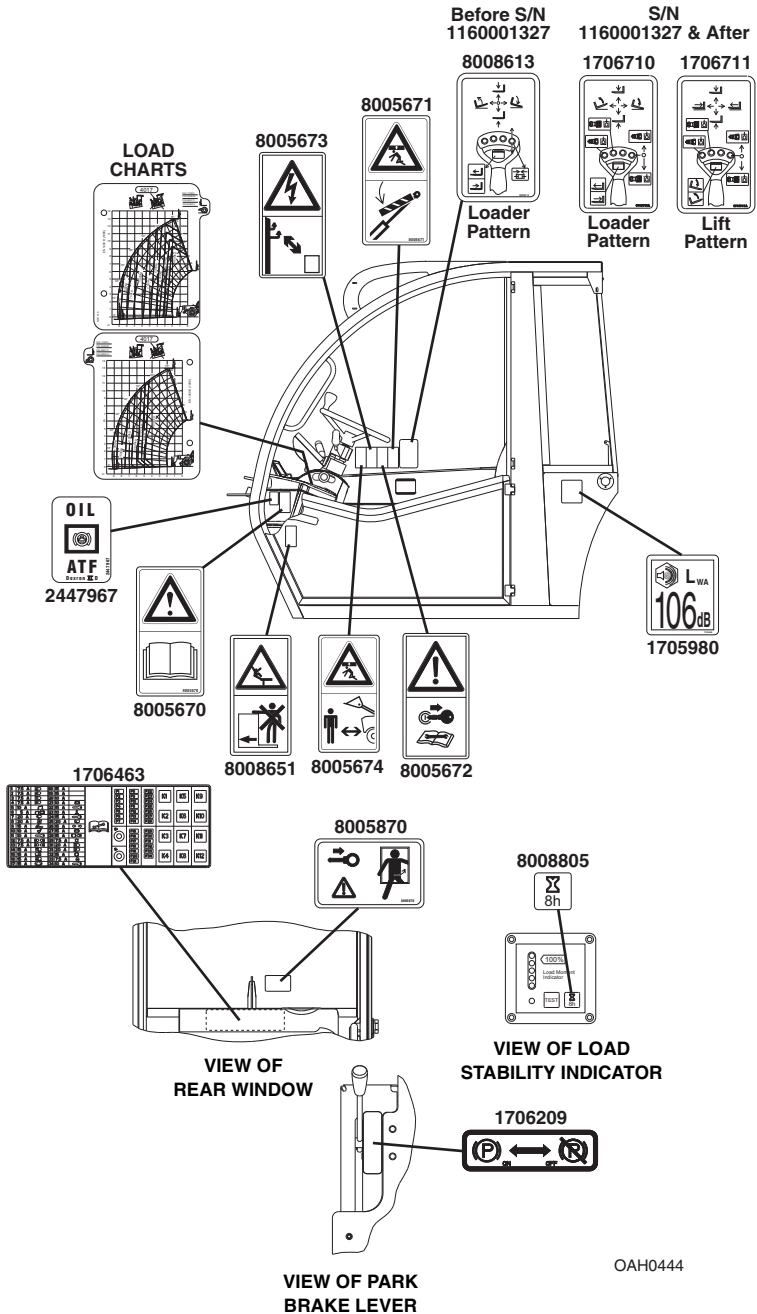
Ensure all **DANGER**, **WARNING**, **CAUTION** and instructional decals and proper capacity charts are legible and in place. Clean and replace as required.



## Section 2 - Pre-Operation And Inspection



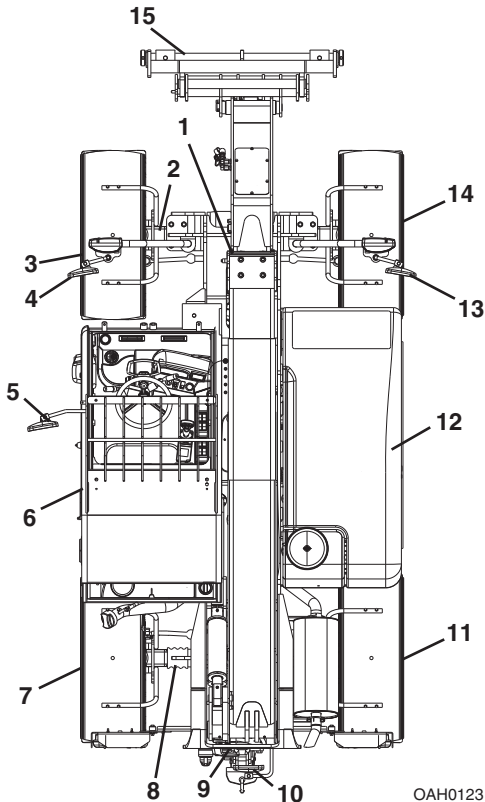
## Section 2 - Pre-Operation And Inspection



OAH0444

## Section 2 - Pre-Operation And Inspection

### 2.3 WALK-AROUND INSPECTION



OAH0123

Begin your walk-around inspection at item 1, as noted below. Continue to your right (counterclockwise when viewed from top) checking each item in sequence.

**INSPECTION NOTE:** On all components, make sure there are no loose or missing parts, that they are securely fastened and no visible leaks or excessive wear exists in addition to any other criteria mentioned. Inspect all structural members including attachment for cracks, excessive corrosion and other damage.

1. Boom Sections & Lift, Tilt, Extend/Retract, Compensating (Slave) Cylinders -
  - Check front, top, side and rear slider pads for presence of grease.
  - Pivot pins secure; hydraulic hoses undamaged, not leaking.
2. Front Axle - Steer cylinders undamaged, not leaking; hydraulic hoses undamaged, not leaking.
3. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.

## ***Section 2 - Pre-Operation And Inspection***

---

4. Mirror (266 LoPro) (Italian, If Equipped) - Clean and undamaged.
5. Mirror - Clean and undamaged.
6. Cab and Electrical -
  - General appearance; no visible damage.
  - Frame level indicator(s) and window glass undamaged and clean.
  - Gauges, switches, joystick, foot controls and horn operational.
  - Check seat belt for damage, replace belt if frayed or cut webbing, damaged buckles or loose mounting hardware.
7. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
8. Rear Axle - Steer cylinders undamaged, not leaking; pivot pins secure; hydraulic hoses undamaged, not leaking.
9. Main Control Valve - See inspection note.
10. Mirror (266 LoPro) - Clean and undamaged.
11. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
12. Engine Compartment -
  - Drive belts, check condition and replace as required.
  - Air cleaner element condition indicator, check for clogged condition. Replace element as required.
  - Check and clean Pre-Cleaner as required.
  - Battery cables tight, no visible damage or corrosion.
  - Engine cover properly secured and latched.
13. Mirror (266, 266 LoPro) - Clean and undamaged.
14. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
15. Attachment - Properly installed, see “*Attachment Installation*” on page 5-7.

## **Section 2 - Pre-Operation And Inspection**

---

### **2.4 WARM-UP AND OPERATIONAL CHECKS**

#### **Warm-Up Check**

---

1. Heater, defroster and windshield wiper (if equipped).
2. Check all lighting systems (if equipped) for proper operation.
3. Adjust mirror(s) for maximum visibility.



## **WARNING**

**CUT/CRUSH/BURN HAZARD.** Keep engine cover closed while engine is running.

#### **Operational Check**

---

1. Service brake and parking brake operation.
2. Forward and reverse travel.
3. Each gear.
4. Steering in both directions with engine at low idle (steering lock to lock will not be reached). Check in each steering mode.
5. Horn and back-up alarm. Must be audible from inside operators cab with engine running.
6. All boom and attachment functions - operate smoothly and correctly.
7. Perform any additional checks described in Section 8.



## **2.5 OPERATOR CAB**

The telehandler is equipped with a standard enclosed ROPS/FOPS cab.



# **WARNING**

Never operate telehandler unless the overhead guard and cab structure are in good condition. Any modification to this machine must be approved by JLG to assure compliance with ROPS/FOPS certification for this cab/machine configuration. If damaged, the **CAB CANNOT BE REPAIRED**. It must be **REPLACED**.

## Section 2 - Pre-Operation And Inspection

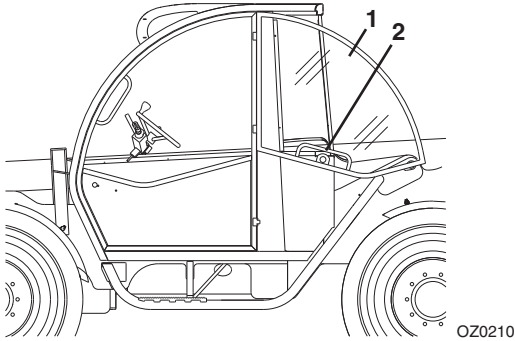
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### 2.6 WINDOWS

Keep all windows and mirrors clean and unobstructed.

#### Cab Door Window

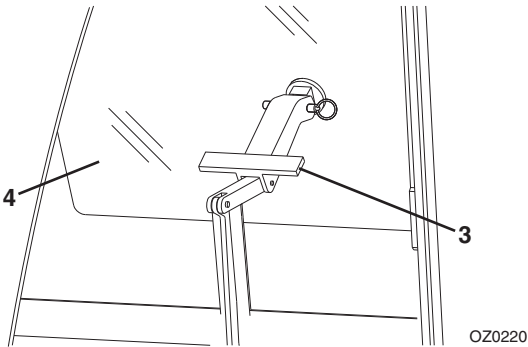
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- During operation the window must either be latched open or closed.
- Open the cab door window (1) and secure it in the latch.
- Press the release button (2) inside the cab to unlatch the window.

#### Rear Window

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- Lift lever (3) and push to open the rear window (4).
- Lift lever and pull to close.

## **SECTION 3 - CONTROLS AND INDICATORS**

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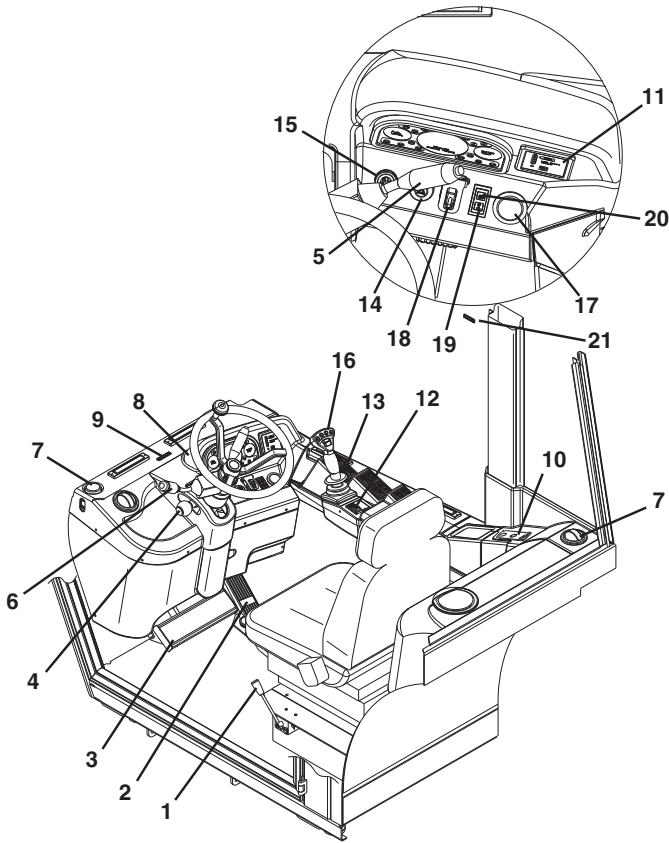
### **3.1 GENERAL**

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

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

## Section 3 - Controls And Indicators

### 3.2 CONTROLS



OAH0502

1. Parking Brake: See page 3-7 for details.
2. Accelerator Pedal: Pressing down the pedal increases engine and hydraulic speed.
3. Service Brake Pedal: The further the pedal is depressed, the slower the travel speed.
4. Steering Column Adjuster: See page 3-11 for details.
5. Wipers, Lights, Turn Signal Lever: See page 3-10 for details.
6. Transmission Control Lever: See page 3-8 for details.
7. Brake Fluid Reservoir: The brake fluid level should be between the MIN and MAX marks. The sight gauge is on the left side of the reservoir.

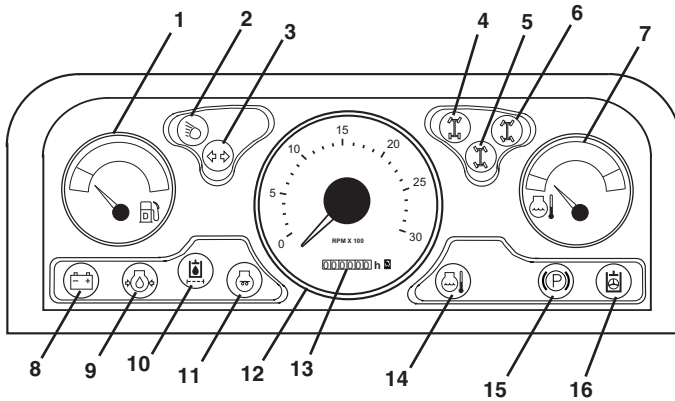
## ***Section 3 - Controls And Indicators***

---

8. Instrument Panel: See page 3-4 for details.
9. Lateral Level Indicator: Enables the operator to determine the left to right level condition of the telehandler.
10. Heater and Air Conditioner Controls: See page 3-21 for details.
11. Load Stability Indicator: See page 3-18 for details.
12. Continuous Auxiliary Switch: Press switch for continuous operation of hydraulic powered attachment. See Section 5 - Attachments and Hitches for approved attachments and control instructions.
13. Control and Indicator Console: See page 3-19 for details.
14. Hazard Flashers: Press button to activate, press button to deactivate.
15. Ignition: Key activated. See page 3-6 for details.
16. Joystick: See page 3-12 for details.
17. Speedometer (if equipped): Displays speed of machine travel.
18. Steer Select Switch: See page 3-22 for details.
19. Trailer Indicator: Light indicates when trailer turn signals are working.
20. Automatic Function Cut-out Indicator: See page 3-20 for details.
21. Longitudinal Level Indicator (if equipped): Enables the operator to determine the front to back level condition of the telehandler.

## Section 3 - Controls And Indicators

### Instrument Panel



OAH0160

1. **Fuel Gauge:** Indicates amount of fuel in fuel tank.
2. **High beam Indicator:** Illuminates while high beam lights are activated.
3. **Turn Signal Indicator:** Illuminates while activated.
4. **Front Wheel Steering Mode:** Illuminates while activated: The front wheels are steering. This mode must be used on public roads.
5. **Crab Steer Mode:** Illuminates while activated: All wheels are steering in the same direction.
6. **All Wheel Steering Mode:** Illuminates while activated: All wheels are steering. The front wheels steer in the opposite direction from the rear wheels.
7. **Engine Temperature Indicator:** Do not exceed the critical coolant temperature of 102°C (221°F). Stop immediately and allow the engine to run at idle in order to cool. (See engine manual.)
8. **Battery Charge Indicator:** Illuminates with the ignition key in position 1 and briefly during starting. Illuminates during operation when battery is at low charge.
9. **Engine Oil Pressure:** Illuminates when low oil pressure occurs. Stop engine immediately.
10. **Hydraulic Return Filter:** Illuminates when filter requires maintenance.
11. **Engine Pre-Heat Indicator:** Illuminates with ignition key in position 1. At temperatures below 0°C, do not start until indicator goes out.

## ***Section 3 - Controls And Indicators***

---

12. Engine RPM Indicator: Indicates engine speed in revolutions per minute (rpm).
13. Hour Meter: Indicates total time of engine operation in hours and tenths of hours.
14. Engine Coolant: Illuminates when coolant temperature is too high.
15. Park Brake: Illuminates when park brake is activated (see page 3-7). Park brake must be applied to start engine
16. Hydraulic Steer Pressure: Illuminates when steer pressure is too low. Only emergency steering is possible.



## **CAUTION**

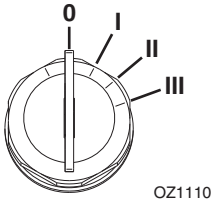
**Equipment Damage.** When a red light illuminates and a warning tone is heard, immediately bring machine to a stop, lower boom and attachment to ground and stop the engine. Determine cause and correct before continued use.

## Section 3 - Controls And Indicators

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### Ignition

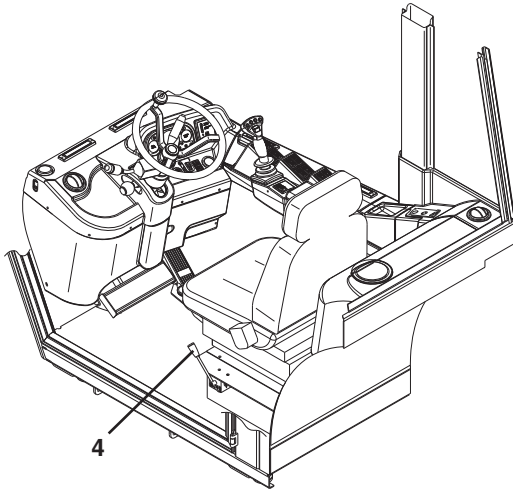
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- Position **0** - Engine off
- Position **I**- Voltage is available for all electrical functions. Engine preheat at temperature below 0°C. Wait until indicator on instrument panel goes out.
- Position **II**- Prohibits rotating key switch to position 3 in the event the engine does not start. Rotate the key to position 0 then back to position 3 to re-engage the starter.
- Position **III**- Engine start.



### Park Brake



OAH0170

The Park Brake Lever (4) controls the application and release of the park brake.

- Pull back to activate.
- Push forward to deactivate.



## WARNING

**MACHINE ROLL-AWAY HAZARD.** Always move park brake lever to "ON" position, lower boom to ground and stop engine before leaving cab.



## WARNING

**CRUSH HAZARD.** Turning engine off applies the park brake. Applying park brake or turning engine off while traveling will cause unit to stop abruptly and could cause load loss. Either may be used in an emergency situation.

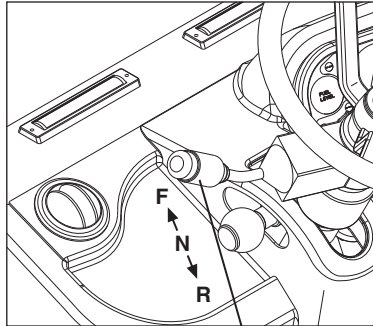
### Parking Procedure

1. Using service brake, stop telehandler in an appropriate parking area.
2. Follow "Shut-Down Procedure" on page 4-3.

## Section 3 - Controls And Indicators

### Transmission Control

#### Direction of Travel Selection



1

OAH0460

Transmission lever (1) engages forward or reverse travel.

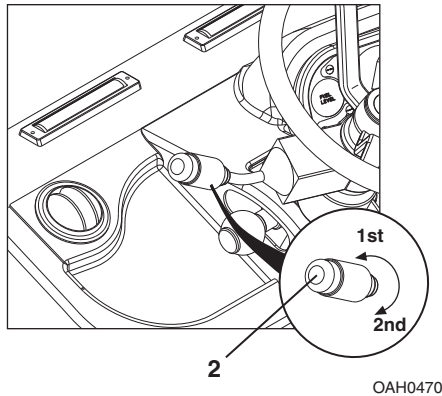
- Push lever forward for forward travel; pull lever rearward for reverse travel. Move lever to centered position for 'Neutral'.
- Forward or reverse travel can be selected while in any gear.
- When traveling in reverse, the back-up alarm will automatically sound.
- Drive in reverse and turn only at slow rates of speed.
- Do not increase engine speed with the transmission in forward or reverse and the service brake depressed in an attempt to get quicker hydraulic performances. This could cause unexpected machine movement.



## WARNING

**TIP OVER/CRUSH HAZARD.** Bring telehandler to a complete stop before shifting transmission control lever. A sudden change in direction of travel could reduce stability and/or cause load to shift or fall.

### Gear Selection

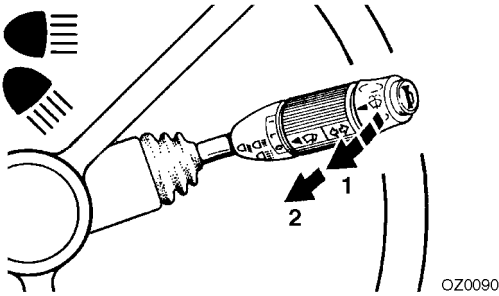


Gear selection is located on the twist grip handle (2) of transmission control lever.

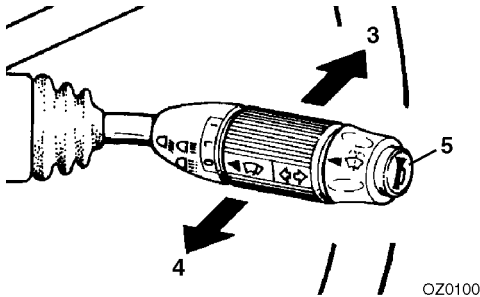
- Twist hand grip to select gear.
- Select the appropriate gear for the task being performed. **Use lower gear when transporting a load.** Use higher gear only when driving unloaded for longer distances.
- Slow down prior to downshifting.

## Section 3 - Controls And Indicators

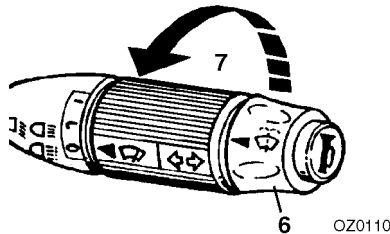
### Wiper, Lights and Turn Signal Control Lever



1. Flash-to-Pass: Pull the lever back completely. The high beam indicator will light.
2. High/Low Beam: With the lights on, pull the lever to switch to high or low beam. The high beam indicator will light when the high beam lights are on.

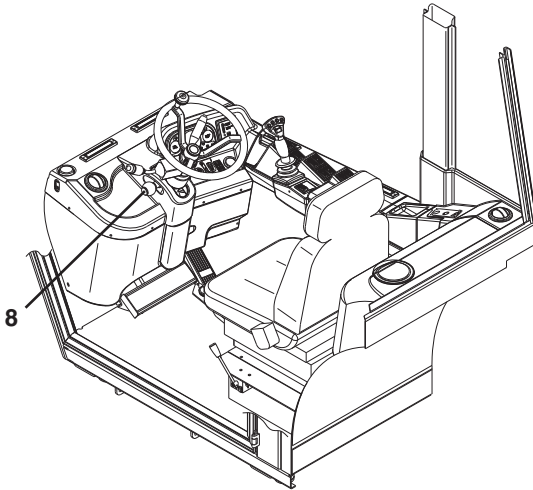


3. Left Turn Signal: Push the lever forward.
4. Right Turn Signal: Pull the lever backward.
5. Horn: Push the button.



6. Windshield Washer: Slide the sleeve toward the steering column.
7. Windshield Wiper: Rotate the sleeve to the desired setting, "O"-Off, "J"-Interval or "I"-Continuous.

## Steering Column Adjuster



OAH0180

- Follow “*Shut-Down Procedure*” on page 4-3.
- Loosen the knob (8).
- Place the steering column in the desired position.
- Retighten the knob.



## WARNING

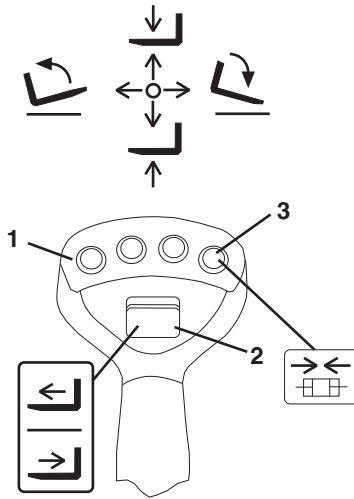
**TIP OVER/CRUSH HAZARD.** Bring telehandler to a complete stop and shutdown engine before adjusting steering column. A sudden change in direction of travel could reduce stability and/or cause load to shift or fall.

## Section 3 - Controls And Indicators

### Joystick

Refer to the joystick decal located inside the cab to know which control pattern your machine is equipped with. Ensure the joystick decal matches the machine controls before operating.

#### Loader Joystick Pattern (Before S/N 1160001327)



OAH0192

The joystick (1) controls the boom and attachment functions.

#### Boom Functions

- Move the joystick back to lift boom; move joystick forward to lower boom. Extend/retract is controlled by the rocker switch (2). Push the rocker switch up to extend boom; push the rocker switch down to retract boom.
- The speed of boom functions depends upon the amount of joystick travel in corresponding direction. Increasing engine speed will also increase function speed.
- For two simultaneous functions, move the joystick between quadrants. For example; moving the joystick forward and to the left will lower boom and tilt attachment back (up) simultaneously.



# WARNING

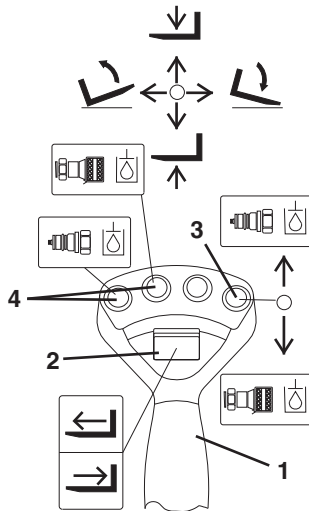
**TIP OVER/CRUSH HAZARD.** Rapid, jerky operation of controls will cause rapid, jerky movement of the load. Such movements could cause the load to shift or fall or could cause the machine to tip over.

## **Attachment Functions**

- Move joystick right to tilt attachment forward (down); move joystick left to tilt attachment back (up).
- Auxiliary Hydraulics button (3) controls function of attachments that require hydraulic supply for operation. See Section 5 - Attachments and Hitches for approved attachments and control instructions.

## Section 3 - Controls And Indicators

### Loader Joystick Pattern (S/N 1160001327 & After)



OAH0620

The joystick (1) controls the boom and attachment functions.

#### Boom Functions

- Move the joystick back to lift boom; move joystick forward to lower boom. Extend/retract is controlled by the rocker switch (2). Push the rocker switch up to extend boom; push the rocker switch down to retract boom.
- The speed of boom functions depends upon the amount of joystick travel in corresponding direction. Increasing engine speed will also increase function speed.
- For two simultaneous functions, move the joystick between quadrants. For example; moving the joystick forward and to the left will lower boom and tilt attachment back (up) simultaneously.



## WARNING

**TIP OVER/CRUSH HAZARD.** Rapid, jerky operation of controls will cause rapid, jerky movement of the load. Such movements could cause the load to shift or fall or could cause the machine to tip over.

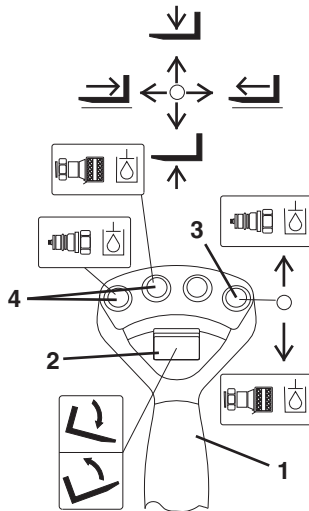


### **Attachment Functions**

- Move joystick right to tilt attachment forward (down); move joystick left to tilt attachment back (up).
- Auxiliary Hydraulics (if equipped) buttons **(3 & 4)** control functions of attachments that require hydraulic supply for operation. Buttons **(4)** can be used simultaneously with normal boom attachment functions. Button **(3)** must be used independently of other functions. See Section 5 - Attachments and Hitches for approved attachments and control instructions.

## Section 3 - Controls And Indicators

### Lift Joystick Pattern (S/N 1160001327 & After)



OAH0610

The joystick (1) controls the boom and attachment functions.

#### Boom Functions

- Move the joystick back to lift boom; move joystick forward to lower boom. Move joystick right to extend boom; move joystick left to retract boom.
- The speed of boom functions depends upon the amount of joystick travel in corresponding direction. Increasing engine speed will also increase function speed.
- For two simultaneous boom functions, move the joystick between quadrants. For example; moving the joystick forward and to the left will lower and retract boom simultaneously.



## WARNING

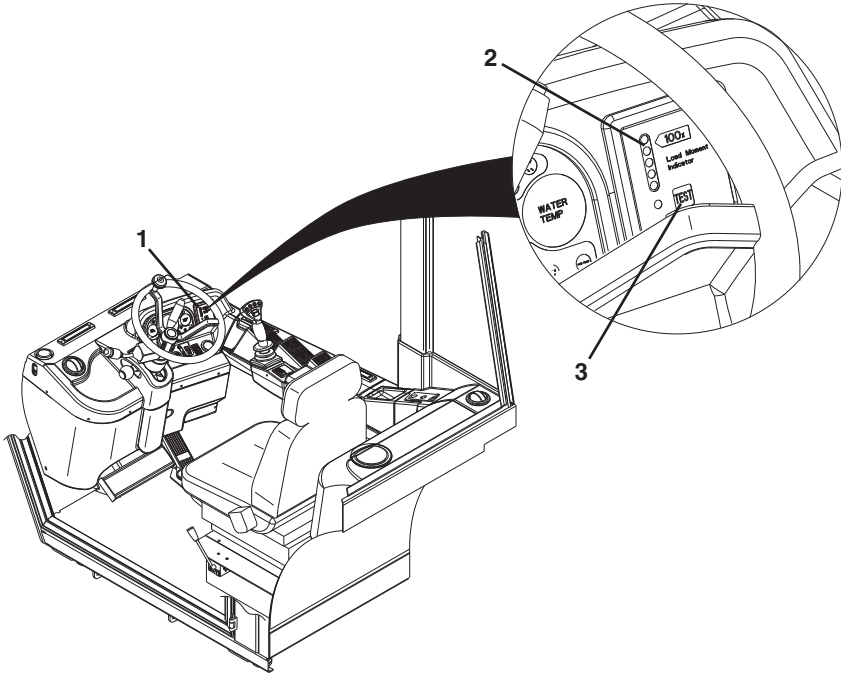
**TIP OVER/CRUSH HAZARD.** Rapid, jerky operation of controls will cause rapid, jerky movement of the load. Such movements could cause the load to shift or fall or could cause the machine to tip over.

### **Attachment Functions**

- Push the rocker switch **(2)** up to tilt attachment forward (down); push the rocker switch down to tilt attachment back (up).
- Auxiliary Hydraulics (if equipped) buttons **(3 & 4)** control functions of attachments that require hydraulic supply for operation. Buttons **(4)** can be used simultaneously with normal boom attachment functions. Button **(3)** must be used independently of other functions. See Section 5 - Attachments and Hitches for approved attachments and control instructions.

## Section 3 - Controls And Indicators

### Load Stability Indicator (LSI)

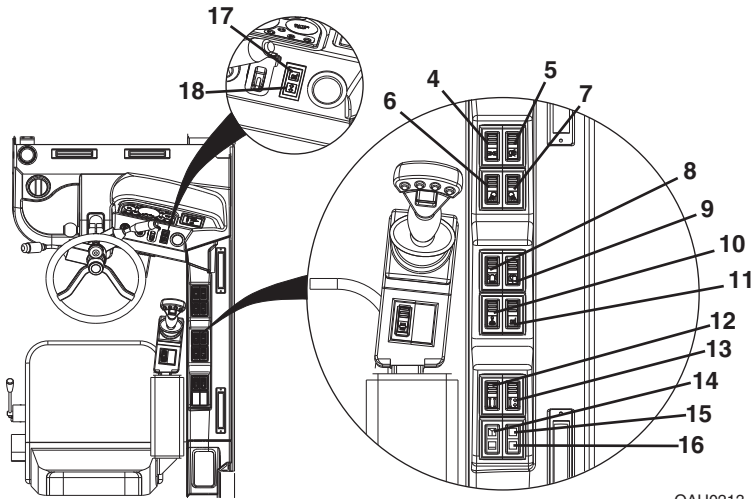


OAH0200

The Load Stability Indicator (1) provides a visual indication for forward stability limitations.

- All five LEDs (2) will progressively light (three green, then yellow and then red). The warning buzzer sounds and the red LED is illuminated as the telehandler reaches its forward stability limitations.
- Automatic Function Cut-Out. When the red LED is illuminated the automatic function cut-out is activated. Boom extension and lower functions are disabled.
- Test the Load Stability Indicator (3) at the beginning of each work shift. See Section 8 - Additional Checks.

### Control and Indicator Console



OAH0213

Controls and indicates the electrical accessories of the telehandler.

4. Parking Lights and Head Lights: Press switch to second position to activate parking lights. Press switch to third position to activate head lights. Return switch to first position to turn off lights
5. Boom Work Light Switch (if equipped): On/Off switch.
6. Front Work Light Switch (if equipped): On/Off switch.
7. Rear Work Light Switch (if equipped): On/Off switch.
8. Rotating Beacon Switch (if equipped): Place the magnetic base of the rotating beacon on the cab roof. Power is supplied by a 12v receptacle at the left rear part of the cab roof.
9. Rear Windshield Wiper and Washer Switch: Press switch to activate rear wipers. Press and hold to third position to turn on washer. Return switch to first position to turn off wipers.
10. Joystick Lockout Switch: LED lit while activated: The boom and auxiliary hydraulic systems are disengaged. No functions can be operated with the joystick. Front-Wheel Steer Mode must be active to proceed to Road Use Operation.

## Section 3 - Controls And Indicators

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11. LSI Switch (if equipped): When the switch is activated a light (18) on dash panel illuminates. The automatic function cut-out (see page 3-18) is disabled.

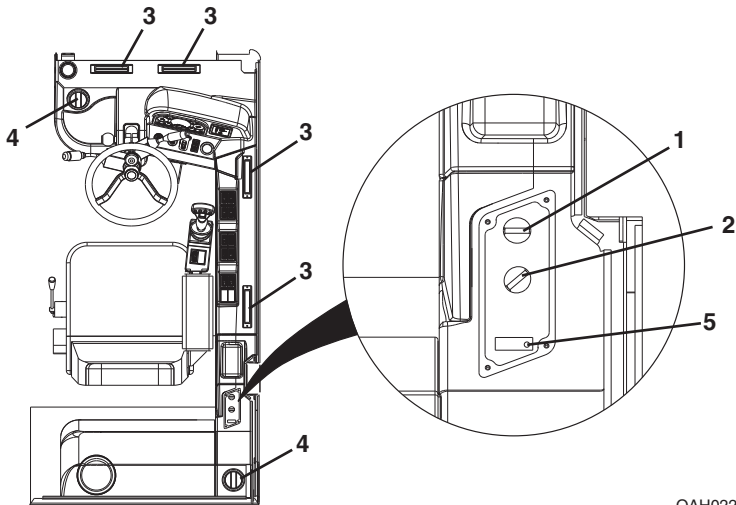


# WARNING

**TIP OVER HAZARD.** Exceeding lift capacity of the telehandler could damage the equipment and/or cause tip over.

12. Auxiliary Hydraulic Circuit/ Hydraulic Quick-Switch Button (if equipped): Press button to select the desired auxiliary hydraulic circuit. See Section 5 - Attachments and Hitches for approved attachments and control instructions.
13. Front/Rear Hydraulic Select Switch: Press switch to second position to activate rear hydraulics. Return switch to first position to activate front hydraulics.
14. Auxiliary Hydraulics Decompression Switch (CE) (if equipped): Depress button to relieve pressure in auxiliary hydraulic circuit. Refer to page 5-10 for more information.
15. Wheel Centering Indicator: Illuminates when rear wheels are centered.
16. Trailer Brake Indicator (Italian) (if equipped): Illuminates when trailer brakes are activated.
17. Automatic Function Cut-out Indicator: Illuminates when the LSI is activated.
18. Trailer Light Indicator: Illuminates when the trailer lights are activated.

**Heater and Air Conditioner (If Equipped) Controls**



OAH0221

1. Fan Speed: 3-position rotary switch for heater and air conditioner.
2. Temperature Control: Adjustable rotary switch.
3. Air Louver
4. Round Vent
5. A/C switch (if equipped): On/Off switch.

**Heater**

Turn the temperature control to the desired temperature and set the fan speed. Adjust the air flow through the air louvers and round vents.

**Air Conditioner (if equipped)**

Turn on the air conditioner and set the fan speed. Adjust the air flow through the air louvers and round vents.

**Note:** When the windows are misted over, run the air conditioner and heater at the same time.

**Defrosting**

Direct the flow of air through the louvers and the left front round vent toward the windshield. Close the other two round vents.

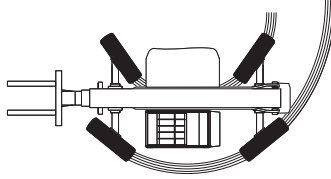
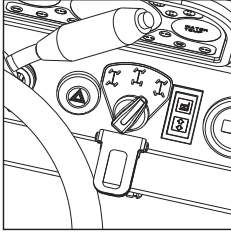
## Section 3 - Controls And Indicators

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### 3.3 STEER MODES

Stop the telehandler before changing steering modes. A light on the instrumental panel will indicate the steering mode selected.

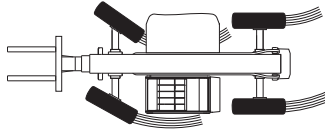
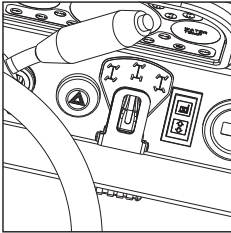
#### All-Wheel Steer



OAH0230

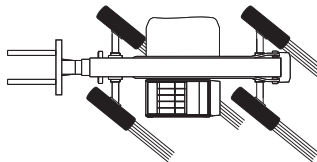
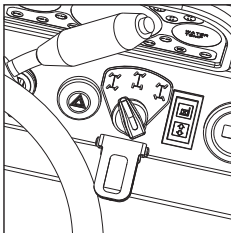
#### Front-Wheel Steer

**Note:** This mode is required for travel on public roads.



OAH0240

#### Crab Steer



OAH0250



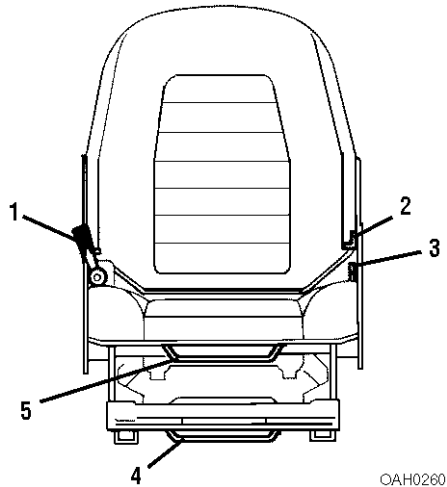
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## **3.4 OPERATOR SEAT**

### **Adjustments**

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#### **Mechanical Suspension**



Prior to starting the engine adjust seat for position and comfort as follows:

#### **Suspension**

Use the knob (1) to adjust the suspension to the appropriate weight setting.

#### **Backrest**

Use knob (2) to adjust backrest angle.

#### **Seat Belt**

Always fasten seat belt (3) during operation.

#### **Fore/Aft**

Use the handle (4) to move seat fore and aft.

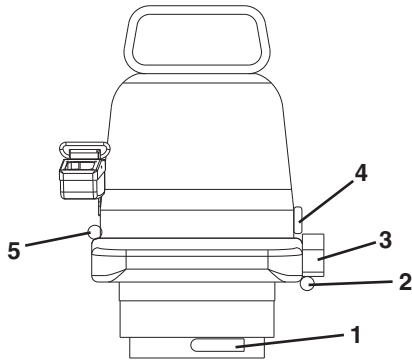
#### **Seat Cushion**

Use latch (5) to adjust cushion angle.

## Section 3 - Controls And Indicators

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### Pneumatic Suspension (if equipped)



OAH0630

Prior to starting the engine adjust seat for position and comfort as follows:

#### **Suspension**

Use the knob (1) to adjust the suspension to the appropriate weight setting.

#### **Fore/Aft**

Use the handle (2) to move seat fore and aft.

#### **Seat Belt**

Always fasten seat belt (3) during operation.

#### **Lumbar**

Use the knob (4) to adjust backrest comfort.

#### **Backrest**

Use knob (5) to adjust backrest angle.

**Seat Belt**

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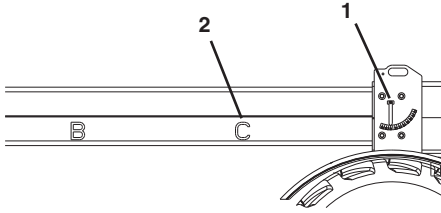
Fasten seat belt as follows:

1. Grasp both free ends of the belt making certain that belt webbing is not twisted or entangled.
2. With back straight in the seat, couple the retractable end (male end) of the belt into the receptacle (buckle) end of the belt.
3. With belt buckle positioned as low on the body as possible, pull the retractable end of the belt away from the buckle until it is tight across the lap.
4. To release belt latch, depress red button on the buckle and pull free end from buckle.

## Section 3 - Controls And Indicators

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### 3.5 BOOM ANGLE AND EXTENSION INDICATORS



OAH0650

- The boom angle indicator (1) is located on the left side of the boom. Use this indicator to determine the boom angle when using the capacity chart (see “Use of the Capacity Chart” on page 5-3).
- The boom extension indicators (2) are located on the left side of the boom. Use these indicators to determine boom extension when using the capacity chart (see “Use of the Capacity Chart” on page 5-3).

## SECTION 4 - OPERATION

### 4.1 ENGINE

#### Starting the Engine

This machine can be operated under normal conditions in temperatures of -20°C to 40°C (0°F to 104°F). Consult JLG for operation outside this range or under abnormal conditions.

1. Make sure all controls are in "Neutral" and all electrical components (lights, heater, defroster, etc.) are turned off. Set parking brake.
2. Turn ignition switch to position 1. If temperature is below 0°C, wait for preheat light to go out.
3. Turn ignition switch to position III to engage starting motor. Release key immediately when engine starts. If engine fails to start within 20 seconds, release key and allow starting motor to cool for a few minutes before trying again.
4. After engine starts, if oil pressure does not rise for more than ten seconds, the engine oil pressure indicator will illuminate on instrument panel and buzzer will sound. Stop engine and determine cause before restarting engine. Reference engine manual for minimum pressure at operating temperature.
5. Warm up engine at approximately 1/2 throttle.

**Note:** Engine will not start unless transmission control lever is in "Neutral" and park brake is applied.



## WARNING

**UNEXPECTED MOVEMENT HAZARD.** Always ensure that transmission control lever is in neutral and the service brake is applied before releasing park brake. Releasing park brake in either forward or reverse could cause the machine to move abruptly.



## WARNING

**ENGINE EXPLOSION.** Do not spray ether into air intake for cold weather starting.

## Section 4 - Operation

### Battery Boosted Starting



OW0530

If battery-boost starting (jump-start) is necessary, proceed as follows:

- Never allow vehicles to touch.
- Connect the positive (+) jumper cable to positive (+) post of discharged battery.
- Connect the opposite end of positive (+) jumper cable to positive (+) post of booster battery.
- Connect the negative (-) jumper cable to negative (-) post on booster battery.
- Connect opposite end of negative (-) jumper cable to ground point on machine away from discharged battery.
- Follow standard starting procedures.
- Remove cables in reverse order after machine has started.



## WARNING

**BATTERY EXPLOSION HAZARD.** Never jump start or charge a frozen battery as it could explode. Keep sparks, flames and lighted smoking materials away from the battery. Lead acid batteries generate explosive gases when charging. Wear safety glasses.

### Normal Engine Operation

---

- Observe instrument panel frequently to be sure all engine systems are functioning properly.
- **Be alert for unusual noises or vibration.** When an unusual condition is noticed, park machine in safe position and perform shut-down procedure. See Shut-Down Procedure. Report condition to your supervisor or maintenance personnel.
- **Avoid prolonged idling.** If the engine is not being used, turn it off.

### Shut-Down Procedure

---

When parking the telehandler, park in a safe location on flat level ground and away from other equipment and/or traffic lanes.

1. Apply the park brake.
2. Shift the transmission to “Neutral.”
3. Lower forks or attachment to the ground.
4. Operate engine at low idle for 3 to 5 minutes. **DO NOT over rev engine.**
5. Shut off engine and remove ignition key.
6. Exit telehandler properly
7. Block wheels (if necessary).

## Section 4 - Operation

---

### 4.2 OPERATING WITH A NON-SUSPENDED LOAD

#### Lift Load Safely

---

- You must know the weight and load center of every load you lift. If you are not sure of the weight and load center, check with your supervisor or with the supplier of the material.



## WARNING

**TIP OVER HAZARD.** Exceeding lift capacity of the telehandler could damage the equipment and/or cause tip over.

- Know the rated load capacities (refer to Section 5) of the telehandler to determine the operating range in which you can safely lift, transport and place a load.

#### Picking Up a Load

---

- Note the conditions of the terrain. Adjust travel speed and reduce amount of load if conditions warrant.
- Avoid lifting double-tiered loads.
- Make sure load is clear of any adjacent obstacles.
- Adjust spacing of forks so they engage the pallet or load at maximum width. See “*Adjusting/Moving Forks*” on page 5-11.
- Approach load slowly and squarely with fork tips straight and level. **NEVER** attempt to lift a load with just one fork.
- **NEVER** operate telehandler without a proper and legible Capacity Chart in the operator’s cab for the telehandler/attachment combination you are using.



### Transporting the Load

---



After engaging the load and resting it against the backrest, tilt the load back to position it for travel. Travel in accordance with the requirements set forth in Section 1 - General Safety Practices and Section 5 - Attachments and Hitches.

### Leveling Procedure

---

1. Position machine in best location to lift or place load.
2. Apply parking brake and move transmission control lever to NEUTRAL.
3. Move boom/attachment to 4 ft (1,2 m) off ground.  
(AUS - Move boom so forks are no more than 300 mm (11.8 in) above ground surface.)
4. Observe level indicator to determine whether machine must be leveled prior to lifting load.

#### Important things to remember:

- Never raise the boom/attachment more than 4 ft (1,2 m) above ground unless telehandler is level.  
(AUS - Never raise the forks more than 300 mm (11.8 in) above ground surface unless telehandler is level.)
- The combination of side tilt and load could cause the telehandler to tip over.

## **Section 4 - Operation**

---

### **Placing the Load**

---

Before placing any load be sure that:

- The landing point can safely support the weight of the load.
- The landing point is level; front to back and side to side.
- Use the capacity chart to determine safe boom extension range. See “*Use of the Capacity Chart*” on page 5-3.
- Align forks at the level load is to be placed, then extend boom slowly until load is just above area where it is to be placed.
- Lower the boom until the load rests in position and the forks are free to retract.

### **Disengaging the Load**

---

Once the load has been placed safely at the landing point, proceed as follows:

1. With the forks free from the weight of the load, the boom can be retracted and/or the telehandler can be backed away from under the load if surface will not change level condition of telehandler.
2. Lower the carriage.
3. The telehandler can now be driven from the landing location to continue work.

## **4.3 OPERATING WITH A SUSPENDED LOAD**

---

### **Lift Load Safely**

---

- You must know the weight and load center of every load you lift. If you are not sure of the weight and load center, check with your supervisor or with the supplier of the material.



## **WARNING**

**TIP OVER HAZARD.** Exceeding lift capacity of the telehandler could damage the equipment and/or cause tip over.

- Know the rated load capacities (refer to Section 5) of the telehandler to determine the operating range in which you can safely lift, transport and place a load.

### **Picking Up a Suspended Load**

---

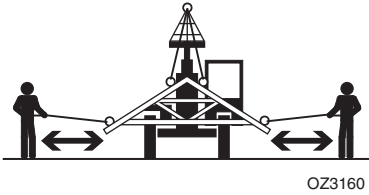
- Note the conditions of the terrain. Adjust travel speed and reduce amount of load if conditions warrant.
- Avoid lifting double-tiered loads.
- Make sure load is clear of any adjacent obstacles.
- **NEVER** operate telehandler without a proper and legible Capacity Chart in the operator's cab for the telehandler/attachment combination you are using.
- Ensure to always properly tether loads to restrict movement.
- Refer to *"Use of the Capacity Chart"* on page 5-3 for proper lifting guidelines in addition to the appropriate load chart on the machine.
- Only use approved lifting devices rated for the lifting of the load.
- Identify the proper lifting points of the load, taking into consideration the center of gravity and load stability.

## Section 4 - Operation

---

### Transporting a Suspended Load

---



Travel in accordance with the requirements set forth in Section 1 - General Safety Practices and Section 5 - Attachments and Hitches.

#### Important things to remember:

- Ensure the boom is fully retracted.
- Never raise the load more than 300 mm (11.8 in) above ground surface or the boom more than 45°.
- The combination of side tilt and load could cause the telehandler to tip over.
- Refer to “*Use of the Capacity Chart*” on page 5-5 for allowable ground conditions in addition to the appropriate load chart on the machine.
- The guide men and operator must remain in constant communication (verbal or hand) and be in visual contact with the operator at all times.
- If applicable, refer to “*Use of the Capacity Chart*” on page 5-5 for additional proper transporting guidelines.
- Never place the guide men between the suspended load and the telehandler.
- Only transport the load at walking speed (0.4 m/s) or less.

#### Leveling Procedure

---

1. Position machine in best location to lift or place load.
2. Apply parking brake and move transmission control lever to NEUTRAL.
3. Move boom so load is no more than 300 mm (11.8 in) above ground surface and/or boom is raised no more than 45°.
4. Observe level indicator to determine whether machine must be leveled prior to lifting load.

## **Placing a Suspended Load**

---

Before placing any load be sure that:

- The landing point can safely support the weight of the load.
- The landing point is level; front to back and side to side.
- Use the capacity chart to determine safe boom extension range. See “*Use of the Capacity Chart*” on page 5-3.
- Align load at the level load is to be placed, then position boom slowly until load is just above area where it is to be placed.
- Ensure that the guide men and operator remain in constant communication (verbal or hand) when placing the load.

## **Disengaging a Suspended Load**

---

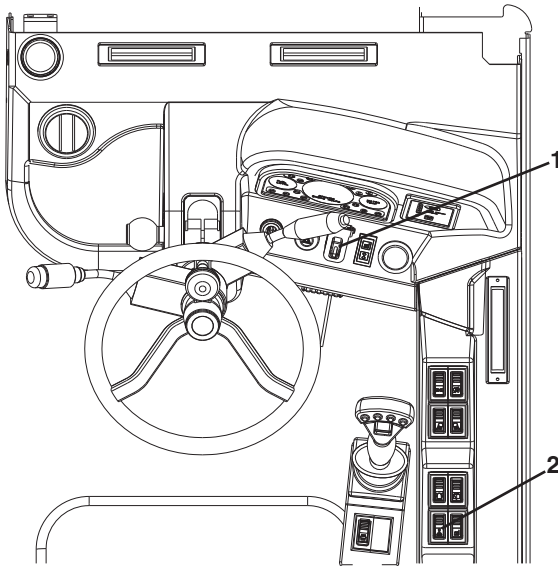
- Never place the guide men between the suspended load and the telehandler.
- Once at the destination of the load, ensure to bring the telehandler to a complete stop and apply the park brake prior to disengagement of the lifting devices and the tethers.

## Section 4 - Operation

---

### 4.4 ROAD OPERATION

1. Preparation
  - a. Empty bucket.
  - b. Remove any large amounts of dirt from machine
  - c. Check lights and mirrors and adjust if necessary.
  - d. Safety equipment to be carried: Warning Triangle, First Aid Kit and Chock.
2. Lower boom. Front edge of attachment should be approximately 30-40 cm (12-16 in) above the ground.
3. Fully tilt attachment back
4. Place protective shield over front bucket edge; remove or reposition carriage forks toward the machine and secure to the carriage.

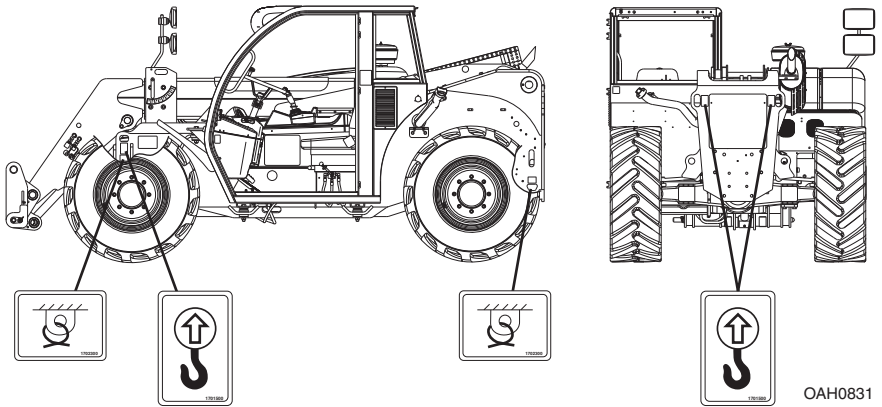


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5. Select front wheel steering by rotating switch to the middle position (1). This mode is required for road travel.
6. Select road use button (2) to disable all joystick controlled functions.
7. Machine is now ready for road operation.

**Note:** Be sure to follow all local and federal/provincial traffic regulations.

## 4.5 LOADING AND SECURING FOR TRANSPORT



### Tiedown

1. Using a spotter, load the telehandler with boom as low as possible.
2. Once loaded, apply parking brake and lower boom until boom or attachment is resting on deck. Move all controls to "Neutral," stop engine and remove ignition key.
3. Secure machine to deck by passing chains through the designated tie down points as shown in the figure.
4. Do not tie down front of boom.

**Note:** The user assumes all responsibility for choosing the proper method of transportation and tie-down devices, making sure the equipment used is capable of supporting the weight of the vehicle being transported and that all manufacturer's instructions and warnings, regulations and safety rules of their employer, and all local and federal/provincial laws are followed.



## WARNING

**TELEHANDLER SLIDE HAZARD.** Before loading telehandler for transport, make sure deck, ramps and telehandler wheels are free of mud, snow and ice. Failure to do so could cause telehandler to slide.

## ***Section 4 - Operation***

---

### **Lifting**

---

- When lifting machine, it is very important that the lifting device and equipment is attached only to designated lifting points. If machine is not equipped with lifting lugs contact JLG Product Safety for information.
- Make adjustments to the lifting device and equipment to ensure the machine will be level when elevated. The machine must remain level at all times while being lifted.
- Ensure that the lifting device and equipment is adequately rated and suitable for the intended purpose. See Section 9 - Specifications for machine weight.
- Remove all loose items from machine prior to lifting.
- Lift machine with smooth, even motion. Set machine down gently. Avoid quick or sudden motions that could cause shock loads to machine and/or lifting devices.



---

## **SECTION 5 - ATTACHMENTS AND HITCHES**

---

### **5.1 APPROVED ATTACHMENTS**

To determine if an attachment is approved for use on the specific telehandler you are using, perform the following prior to installation.

- The attachment model/option number on the attachment identification plate must match the attachment number on a capacity chart located in the operator cab.
- The model on the capacity chart must match the model telehandler being used.
- The load center of the fork (if equipped) must match the load center as indicated on the capacity chart.
- Hydraulically powered attachments must only be used on machines equipped with auxiliary hydraulics.

If any of the above conditions are not met, do not use the attachment. The telehandler may not be equipped with the proper capacity chart or the attachment may not be approved for the model telehandler being used. Contact JLG or your local distributor for further information.

---

### **5.2 UNAPPROVED ATTACHMENTS**

Do not use unapproved attachments for the following reasons:

- JLG cannot establish range and capacity limitations for “will fit,” homemade, altered, or other non-approved attachments.
- An overextended or overloaded telehandler can tip over with little or no warning and cause serious injury or death to the operator and/or those working nearby.
- JLG cannot assure the ability of a non-approved attachment to perform its intended function safely.

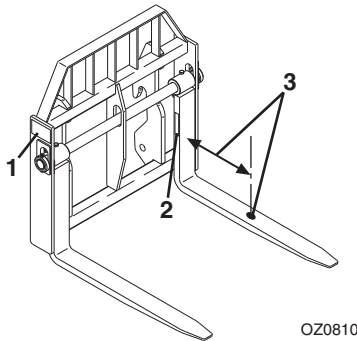


## **WARNING**

Use only approved attachments. Attachments which have not been approved for use with your telehandler could cause machine damage or an accident.

## Section 5 - Attachments and Hitches

### 5.3 TELEHANDLER/ATTACHMENT/FORK CAPACITY



Prior to installing the attachment verify it is approved and the telehandler is equipped with the proper capacity chart. See “*Approved Attachments*” on page 5-1.

To determine the maximum capacity of the telehandler and attachment, use the smallest of the following capacities:

- Capacity stamped on the attachment identification plate (1).
- Fork capacities and load centers are stamped on the side of each fork (2) (if equipped). This rating specifies the maximum load capacity that the individual fork can safely carry at the maximum load center (3). Total attachment capacity is multiplied by the number of forks on the attachment (if equipped), up to the maximum capacity of the attachment.
- Maximum capacity as indicated on the proper capacity chart. See “*Approved Attachments*” on page 5-1.
- When the load rating of the telehandler differs from the capacity of the forks or attachment, the lower value becomes the overall load capacity.

Use the proper capacity chart to determine maximum capacity at various machine configurations. Lifting and placing a load may require use of more than one capacity chart based on machine configuration.

Other than block forks, all forks should be used in matched pairs, block forks used in matched sets.



## WARNING

Never use an attachment without the appropriate JLG supplied capacity chart installed on the telehandler.

### 5.4 USE OF THE CAPACITY CHART

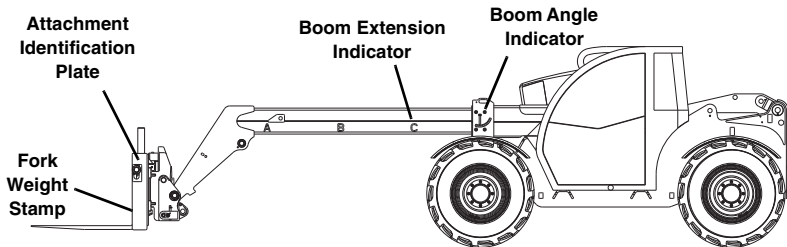
To properly use the capacity chart (see page 5-4), the operator must first determine and/or have the following:

1. A JLG approved attachment. See “Approved Attachments” on page 5-1.
2. The proper Capacity Chart.
3. Weight of the load being lifted.
4. Load placement information:
  - a. HEIGHT where the load is to be placed.
  - b. DISTANCE from the front tires of the telehandler where the load is to be placed.
5. On the Capacity Chart, find the line for the height and follow it over to the distance.
6. The number in the load zone where the two cross is the maximum capacity for this lift. If the two cross at a division between zones, the smaller number must be used.
7. Reference additional operating instructions located on the appropriate capacity chart.

The number in the load zone must be equal to or greater than the weight of the load to be lifted. Determine the limits of the load zone on the Capacity Chart and keep within these limits.

### Capacity Indicator Locations

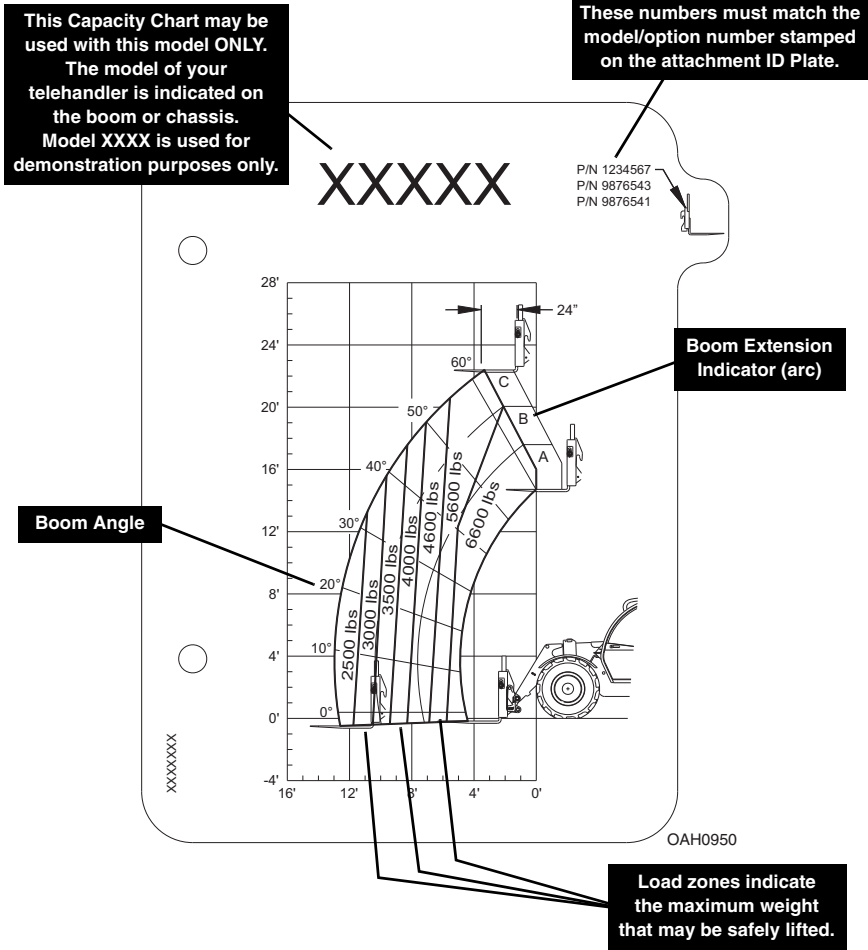
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# Section 5 - Attachments and Hitches

## Sample Capacity Chart (CE)



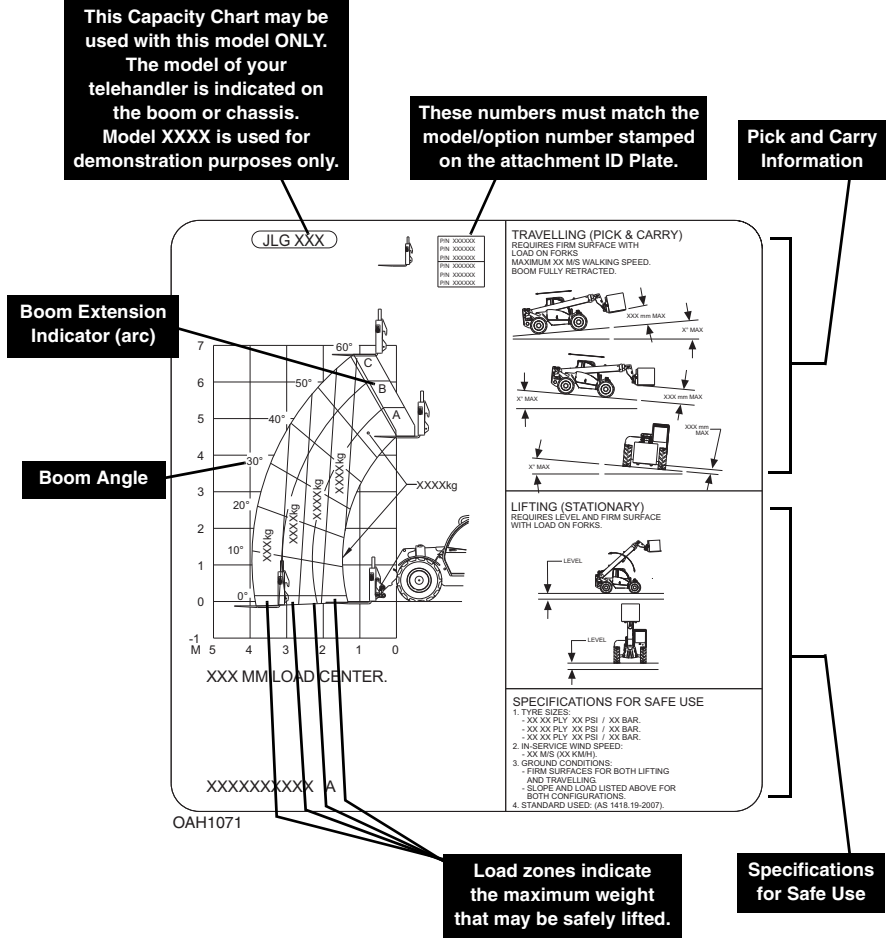
**Note:** This is a sample capacity chart **only!** **DO NOT** use this chart, use the one located in your operator cab.



# WARNING

**TIP OVER HAZARD.** All loads shown on rated capacity chart are based on machine being on firm ground with frame level (see page 4-5); the forks being positioned evenly on carriage; the load being centered on forks; proper size tires being properly inflated; and the telehandler being in good operating condition.

Sample Capacity Chart (AUS)



**Note:** This is a sample capacity chart **only!** **DO NOT** use this chart, use the one located in your operator cab.

# ⚠ WARNING

**TIP OVER HAZARD.** All loads shown on rated capacity chart are based on machine being operated within the parameters indicated on the appropriate load chart; proper size tires being properly inflated; and the telehandler being in good operating condition.

## Section 5 - Attachments and Hitches

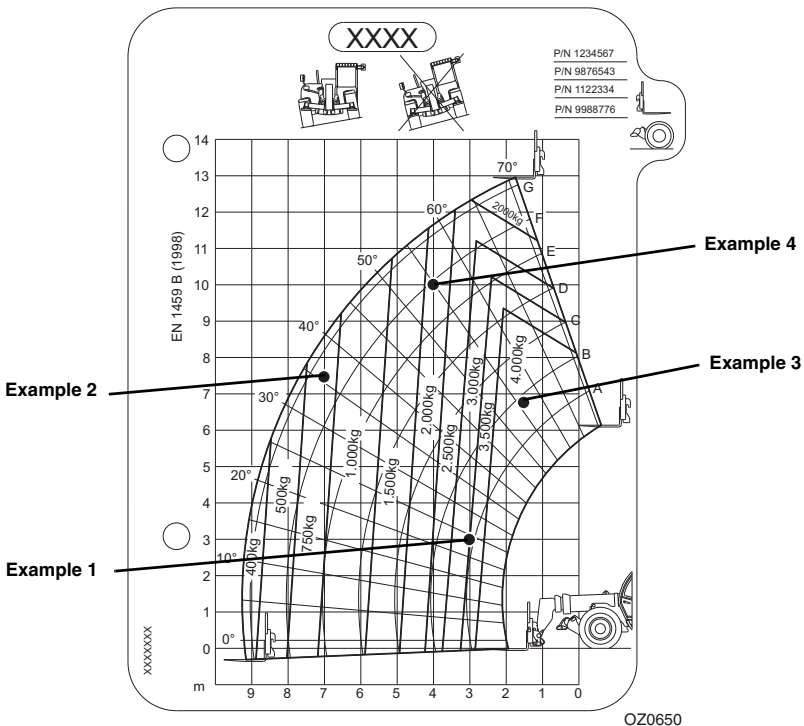
### Example

A contractor owns a model xxxx telehandler with a fork carriage. He knows this attachment may be used with his model since:

- The attachment model/option number, matches the attachment number on the capacity chart.
- The capacity chart is clearly marked for model xxxx and corresponds with machine configuration being used.

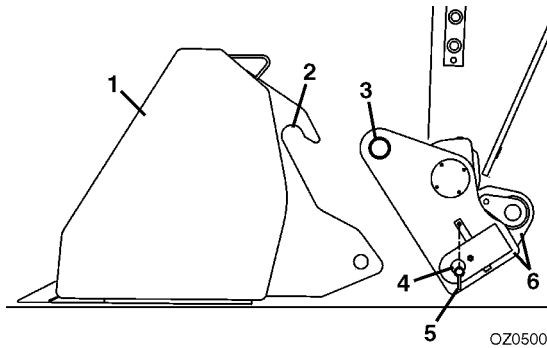
Below are examples with various conditions the contractor may encounter and whether or not the load may be lifted.

	Load Weight	Distance	Height	OK to Lift
1	3.000 kg (6,614 lbs)	3 m (9.8 ft)	3 m (9.8 ft)	Yes
2	900 kg (1,984 lbs)	7 m (23 ft)	7,5 m (24.6 ft)	NO
3	3.750 kg (8,267 lbs)	1,5 m (4.9 ft)	6,75 m (22.1 ft)	Yes
4	2.500 kg (5,512 lbs)	4 m (13.1 ft)	10 m (32.8 ft)	NO



**Note:** This is a sample capacity chart **only!** **DO NOT** use this chart, use the one located in your operator cab.

5.5 ATTACHMENT INSTALLATION



1. Attachment
2. Attachment Pin Recess
3. Attachment Pin
4. Lock Pin
5. Retainer Pin (mechanical quick-switch only)
6. Quick-Switch device (attachment tilt control in cab, see page 3-12 for details)



**WARNING**

**CRUSH HAZARD.** Always be certain that carriage or attachment is properly positioned on boom and is secured by lock pin and retainer pin. Failure to ensure proper installation could permit carriage/attachment/load to disengage.

## Section 5 - Attachments and Hitches

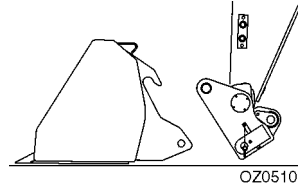
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### Mechanical Quick-Switch Device

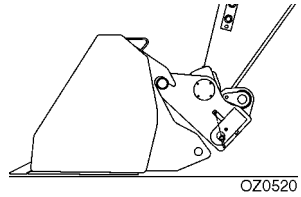
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This installation procedure is designed for one-person operation.

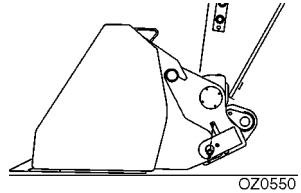
1. Retract quick-switch device to provide clearance.  
Check to be sure lock pin and retainer pin is out.



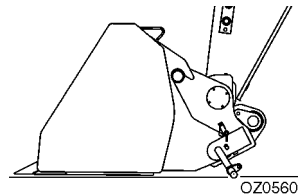
2. Align attachment pin with recess in attachment.  
Raise boom slightly to engage attachment pin in recess.



3. Engage quick-switch device.



4. Shut off engine. Exit cab and insert lock pin and secure with retainer pin.



5. If attachment is equipped, connect auxiliary hydraulic hoses. See "Hydraulic Operated Attachment" on page 5-10.

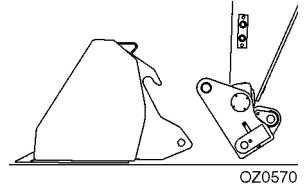


## Section 5 - Attachments and Hitches

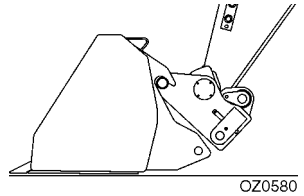
### Hydraulic Quick-Switch Device

This installation procedure is designed for one-person operation.

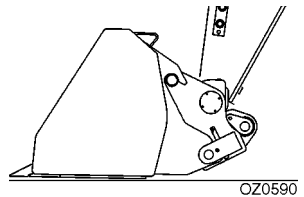
1. Retract quick-switch device to provide clearance.  
Check to be sure lock pin is disengaged.



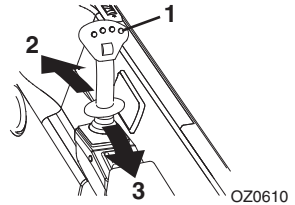
2. Align attachment pin with recess in attachment.  
Raise boom slightly to engage attachment pin in recess.



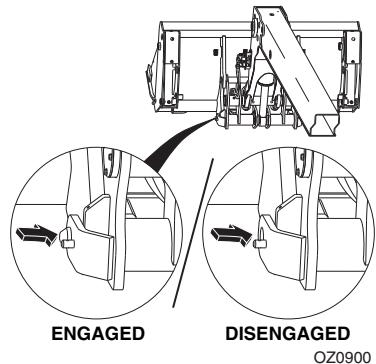
3. Engage quick-switch device.



4. Press the button (1) and at the same time move the joystick (2) to engage or (3) to disengage the quick-switch device.



5. Raise boom to eye level and visually check that the quick-switch pin protrudes through the hole. If the pin does not protrude through the hole, place the attachment on the ground and return to step 2.

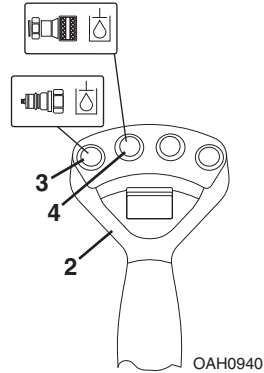
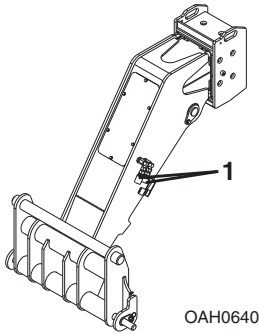


6. If attachment is equipped, connect auxiliary hydraulic hoses. See "Hydraulic Operated Attachment" on page 5-10.

## Section 5 - Attachments and Hitches

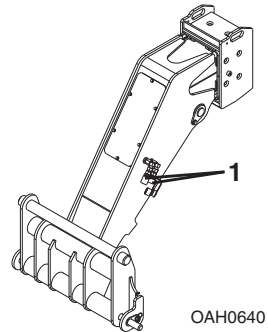
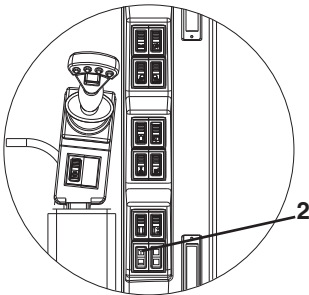
### Hydraulic Operated Attachment

#### Standard



1. Install attachment (see page 5-8 or 5-9).
2. Lower attachment to ground and set parking brake.
3. Quickly depress and release button (3) to relieve pressure at the male auxiliary fitting.
4. Connect to the male auxiliary fitting (1).
5. Quickly depress and release button (4) to relieve pressure at the female auxiliary fitting.
6. Connect to the female auxiliary fitting (1).

#### If Equipped



1. Install attachment (see page 5-8 or 5-9).
2. Lower attachment to ground and set parking brake.
3. Press the auxiliary hydraulics decompression switch (2) to relieve pressure at both auxiliary fittings.
4. Connect attachment hoses to both auxiliary fittings (1).

### 5.6 ADJUSTING/MOVING FORKS

Carriages may have different locations where forks can be positioned. Two different methods can be used for repositioning, depending upon the carriage structure.

**Note:** Apply a light coating of appropriate lubricant to ease sliding of forks or fork bar.

#### To slide forks:

1. Ensure attachment is properly installed. See “Attachment Installation” on page 5-7.
2. Elevate attachment to approximately 1,5 m (5 ft) and tilt carriage forward until fork heel is free from attachment.
3. Stand at the side of the carriage. To slide fork toward the center of the carriage, push the fork near the fork eye. To slide fork toward the edge of the carriage, pull the fork near the fork eye. To avoid pinching, do not place fingers or thumb between the fork and carriage structure.

#### If removing fork bar is necessary:

1. Rest forks on ground.
2. Remove fork bar.
3. Reposition forks.
4. Reinstall the fork bar and fork bar retaining mechanism(s).

---

### 5.7 ATTACHMENT OPERATION

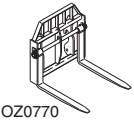
- Capacities and range limits for the telehandler change depending on the attachment in use.
- Separate attachment instructions must be kept in net behind seat in cab with this Operation & Safety Manual. An additional copy must be kept with the attachment if it is equipped with a manual holder.
- Operations described within this section reference the Lift joystick pattern. Refer to page 3-12 if utilizing the Loader joystick pattern.

## NOTICE

**EQUIPMENT DAMAGE.** Some attachments may contact the front tires or machine structure when the boom is retracted and the attachment is rotated. Machine or attachment damage may occur from contact.

## Section 5 - Attachments and Hitches

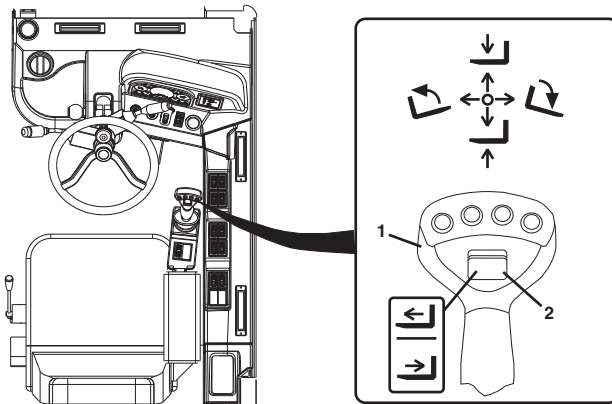
### Carriage w/Forks



<u>Description</u>	<u>P/N</u>
Carriage (CE & AUS).....	1170001
Forks 45x125 mm.....	2340029
Forks 50x100 mm.....	2340030
Carriage (CE & AUS).....	1170028
Forks 50x120 mm.....	2340040
Forks 50 x100 mm.....	2340041
Carriage, (CE).....	1001107333
Forks, 50x100 mm.....	1001100911
Carriage, (AUS).....	1001107581
Forks, 60x100 mm.....	1001107586

Use Carriage Attachment Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



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The joystick (1) controls lift/lower movement of the boom and carriage tilt.

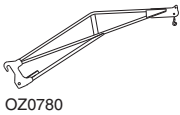
- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.

#### Installation Procedure:

- Refer to “Attachment Installation” on page 5-7.

### Truss Boom



#### Description

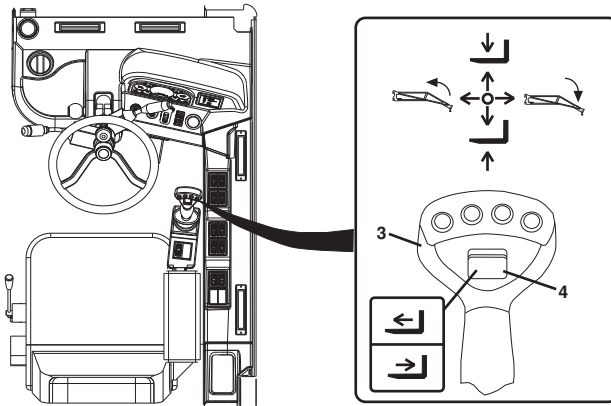
#### P/N

Truss Boom 3,6 m - 650 kg (CE).....	0240110
Truss Boom 3,4 m - 1000 kg (CE) .....	0240063
Truss Boom 2.0 m - 4000 kg (AUS) .....	1001101442

Use Truss Boom Attachment Capacity Chart

To determine maximum capacity, refer to “*Telehandler/Attachment/Fork Capacity*” on page 5-2.

**Suspend loads in accordance with requirements set forth in Section 1 - General Safety Practices.**



OAH0311

The joystick (3) controls lift/lower movement of the boom and truss boom tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

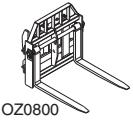
The rocker switch (4) located on the boom joystick controls the extend/retract movement of the boom.

#### Installation Procedure:

- Refer to “*Attachment Installation*” on page 5-7.

## Section 5 - Attachments and Hitches

### Side Shift Carriage

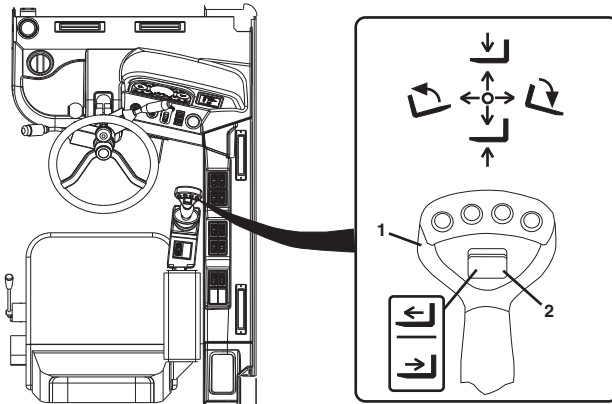


#### Description

	<b>P/N</b>
Side Shift Carriage (CE) .....	1170002
Forks 45x125 mm .....	2340029
Forks 50x100 mm .....	2340030

Use Side Shift Carriage Attachment Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.

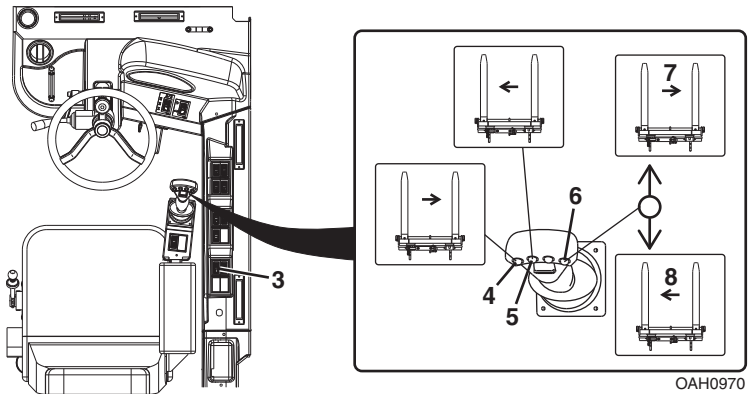


OAH0301

The joystick (1) controls lift/lower movement of the boom and carriage tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.



### To Side Shift:

- Use the button (3) to select the auxiliary hydraulic circuit.
- Press joystick button (4) to shift forks right or press joystick button (5) to shift forks left.

### OR

- While pressing and holding the joystick button (6), move the joystick forward (7) to shift forks right or move the joystick back (8) to shift forks left.

### Installation Procedure:

- Refer to "Attachment Installation" on page 5-7.

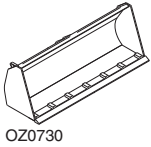


## WARNING

**CRUSH HAZARD.** Do not use side shift to push or pull objects or load. Failure to comply could cause object or load to fall.

## Section 5 - Attachments and Hitches

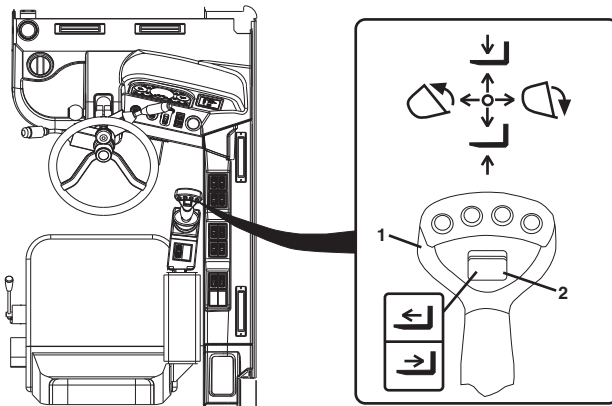
### Bucket



<u>Description</u>	<u>P/N</u>
Bucket, 4 in 1 - 0,6m <sup>3</sup> (CE & AUS) .....	0930006
Bucket, 4 in 1 - 0,9 m <sup>3</sup> (AUS) .....	1001145723
Bucket, 4 in 1 - 1 m <sup>3</sup> (CE & AUS) .....	0930003
Bucket 2,0 m <sup>3</sup> (AUS) .....	1001145725
Bucket 1,8 m <sup>3</sup> (CE & AUS) .....	0930016
Bucket 1,5 m <sup>3</sup> (CE & AUS) .....	0930009
Bucket 1,0 m <sup>3</sup> (AUS) .....	1001145724
Bucket 0,9 m <sup>3</sup> (CE & AUS) .....	0930015
Bucket 0,8 m <sup>3</sup> (CE & AUS) .....	0930008
Bucket 0,51 m <sup>3</sup> (AUS) .....	1001145722
Bucket w/teeth 0,8 m <sup>3</sup> (CE & AUS) .....	4805670
Bucket w/teeth 1,0 m <sup>3</sup> (CE & AUS) .....	4802100
Bucket 1,0 m <sup>3</sup> (AUS) .....	0930001
Bucket 2,0 m <sup>3</sup> (AUS) .....	0930002

Use Appropriate Bucket Capacity Chart

To determine maximum capacity, refer to "Telehandler/Attachment/Fork Capacity" on page 5-2.



OAHO331

The joystick (1) controls lift/lower movement of the boom and bucket tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.



### **Installation Procedure:**

- Refer to “*Attachment Installation*” on page 5-7.

### **Equipment Damage Precautions**

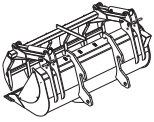
- Drive into stockpile smoothly with boom fully retracted to load bucket. Loading bucket with boom extended could damage boom. Do not corner-load bucket.
- Distribute material evenly within the bucket. Bucket capacity charts are for evenly distributed loads only.
- Do not use bucket as a lever to pry material. Excessive prying forces could damage bucket.
- Do not use bucket for "back dragging". This could cause severe damage to quick switch.

### **Operation:**

- Raise or lower boom to appropriate height for loading material from stockpile.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load and back away from pile.
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.
- Tilt bucket down to dump load.

## Section 5 - Attachments and Hitches

### Manure Bucket



OZ1450

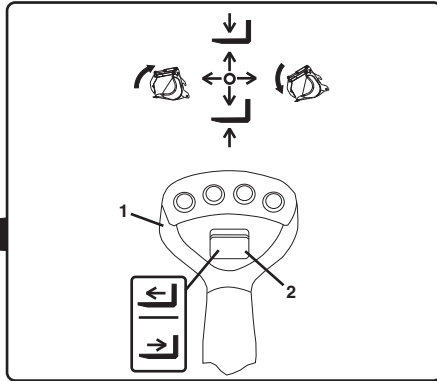
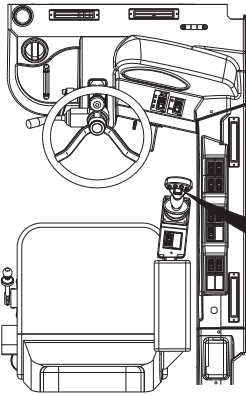
#### Description

#### P/N

Bucket 1.0 m <sup>3</sup> (CE & AUS) .....	0930004
Bucket 0.8 m <sup>3</sup> (CE & AUS) .....	0930005

Use Appropriate Bucket Capacity Chart

To determine maximum capacity, refer to "Telehandler/Attachment/Fork Capacity" on page 5-2.

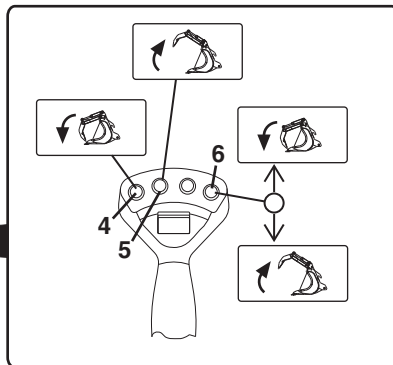
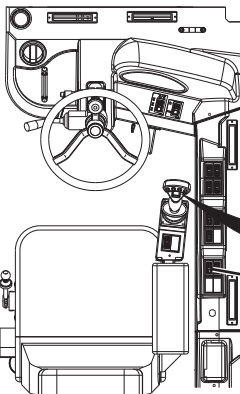


OAH1120

The joystick (1) controls movement of the boom and bucket tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.



OAH1130

## **Section 5 - Attachments and Hitches**

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### **To open/close grapple:**

Use the button (3) to select the auxiliary hydraulic circuit.

Press joystick button (4) to close grapple or press joystick button (5) to open grapple.

### **OR**

While pressing and holding the joystick button (6), move the joystick forward to close grapple or move the joystick back to open grapple.

### **Installation Procedure:**

- Refer to "Attachment Installation" on page 5-7.

### **Equipment Damage Precautions**

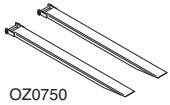
- Drive into stockpile smoothly with boom fully retracted to load bucket. Loading bucket with boom extended could damage boom. Do not corner-load bucket.
- Distribute material evenly within the bucket. Bucket capacity charts are for evenly distributed loads only.
- Do not use bucket as a lever to pry material. Excessive prying forces could damage bucket.
- Do not use bucket for "back dragging". This could cause severe damage to quick switch.

### **Operation:**

- Raise or lower boom to appropriate height for loading material from stockpile and open grapple.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load, close grapple, and back away from pile.
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.
- Open grapple and tilt bucket down to dump load.

## Section 5 - Attachments and Hitches

### Fork Extension



OZ0750

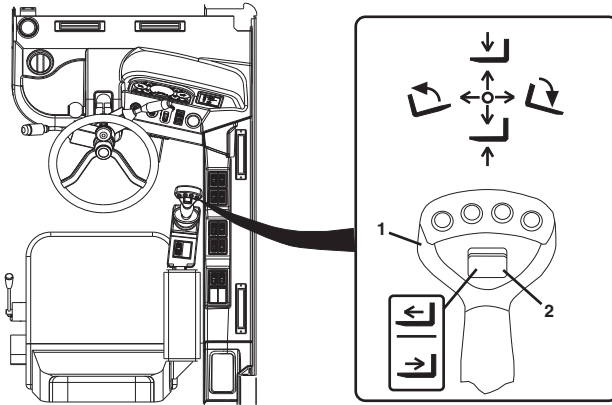
#### Description

#### P/N

Fork Extension 2 m (CE) .....	2340034
Fork Extension 1,8 m (CE & AUS - used with 2340030, 2340031 & 1001100911 Forks).....	1001112559
Fork Extension 1,8 m (AUS - used with 1001107586 Forks).....	1001112560

#### Use Carriage Attachment Capacity Chart

To determine maximum capacity of the carriage, refer to “*Telehandler/Attachment/Fork Capacity*” on page 5-2. The maximum capacity of the carriage when equipped with fork extensions may be reduced to the capacity indicated on the fork extensions. If the load exceeds the capacity of the fork extension contact JLG to obtain forks and/or fork extensions of the proper load rating and length.



OAH0301

The joystick (1) controls lift/lower movement of the boom and fork tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.

## ***Section 5 - Attachments and Hitches***

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### **Installation Procedure:**

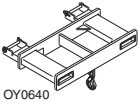
- Refer to “*Attachment Installation*” on page 5-7.
- Ensure length and cross section of the parent fork arm is equal to or exceeds the parent fork arm blade length stamped into the fork extension.
- Secure the fork extensions to the forks by sliding the fork extension onto the parent fork and install the retaining pin behind the vertical shank of the fork.

### **Equipment Damage Precautions**

- Inspect the fork extension at the beginning of each work shift for wear or damage.
- The heavy part of the load must be against the carriage backrest.
- Do not place the center of gravity of the load in front of the tip of the supporting fork.
- Do not pick up a load or pry materials with the tip of a fork extension.

## Section 5 - Attachments and Hitches

### Fork Mounted Hook



**Description**

**P/N**

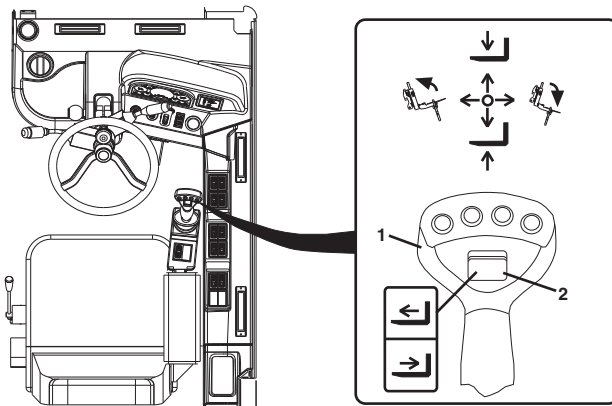
Fork Mounted Hook 4 ton (CE)..... 2700097

Fork Mounted Hook 4 ton (CE)..... 2700118

Use Fork Hook Attachment Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.

**Suspend loads in accordance with requirements set forth in Section 1 - General Safety Practices.**



OAH0351

The joystick (1) controls lift/lower movement of the boom and fork hook tilt.

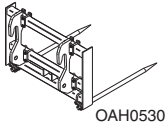
- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.

**Installation Procedure:**

- Refer to “Attachment Installation” on page 5-7.
- Secure the fork hook to the forks by sliding the fork hook onto the parent forks and install the retaining pin behind the vertical shank of the fork.

## Round Tine Bale



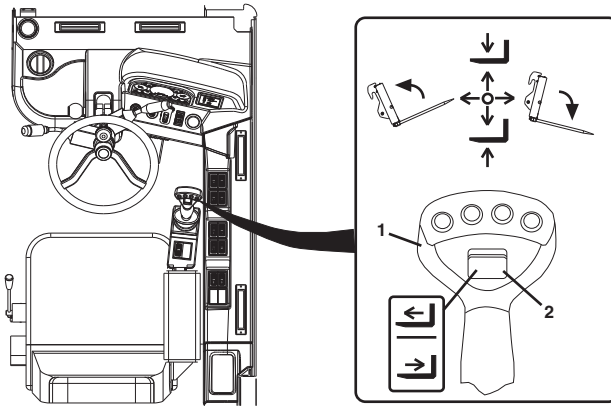
**Description**

Round Tine Bale (CE) ..... 2340035

**P/N**

Use Round Tine Bale Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



OAH0540

The joystick (1) controls lift/lower movement of the boom and tine bale tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.

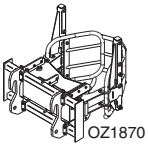
The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.

**Installation Procedure:**

- Refer to “Attachment Installation” on page 5-7.

## Section 5 - Attachments and Hitches

### Bale Handler



#### Description

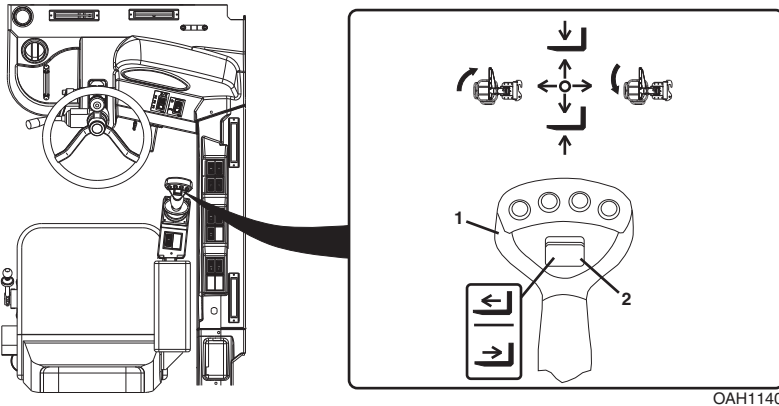
#### P/N

Tube Bale Handler (CE) .....	0240117
Spike Bale Handler (CE).....	0270118

Use Bale Handler Attachment Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.

**Suspend loads in accordance with requirements set forth in Section 1 - General Safety Practices.**



The joystick (1) controls lift/lower movement of the boom and bale handler tilt.

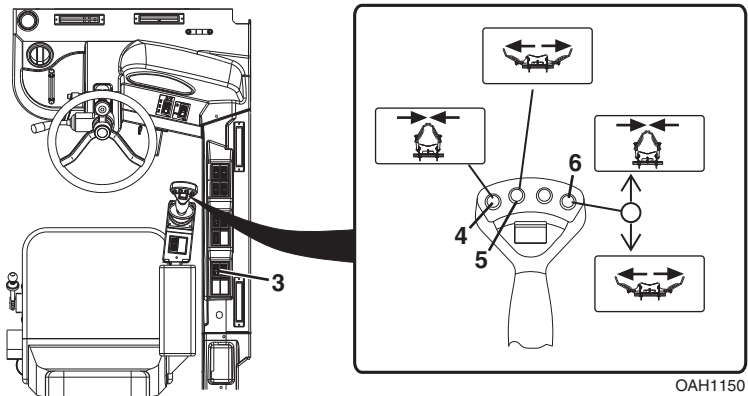
- Move joystick left to tilt up.
- Move joystick right to tilt down.

The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.

#### Installation Procedure:

- Refer to “Attachment Installation” on page 5-7.





### To open/close grapple:

Use the button (3) to select the auxiliary hydraulic circuit.

Press joystick button (4) to close grapple or press joystick button (5) to open grapple.

### OR

While pressing and holding the joystick button (6), move the joystick forward to close grapple or move the joystick back to open grapple.

### Installation Procedure:

- Refer to "Attachment Installation" on page 5-7.

### Equipment Damage Precautions

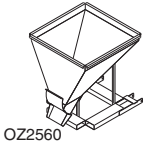
- Do not use bale handler as a lever to pry material. Excessive prying forces could damage the bale handler.

### Operation:

- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.

## Section 5 - Attachments and Hitches

### Concrete Ladle



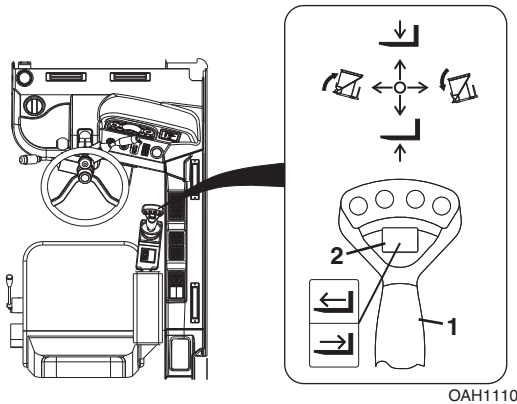
**Description**

Concrete Ladle 500 liter (CE) ..... P/N 0240158

**P/N**

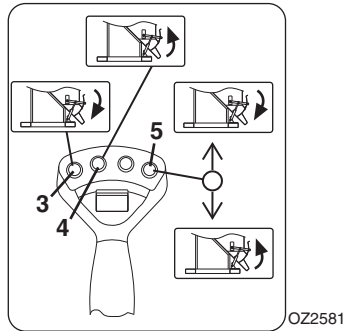
Use Appropriate Carriage Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



The joystick (1) controls lift/lower movement of the boom and ladle tilt.

- Move joystick left to tilt up.
- Move joystick right to tilt down.
- The rocker switch (2) located on the boom joystick controls the extend/retract movement of the boom.



### To open/close ladle gate:

Press and hold button (3) to close ladle gate or press and hold button (4) to open ladle gate.

### OR

While pressing and holding button (5), move joystick forward to close ladle gate or move joystick back to open ladle gate.

### Installation Procedure:

- Refer to “Attachment Installation” on page 5-7.
- Secure the concrete ladle to the forks by sliding the concrete ladle onto the parent forks and install the retaining pin behind the vertical shank of the fork.

### Operation:

- Close ladle gate, level ladle and fully retract and lower boom to load material.
- Distribute material evenly within the ladle. Capacity charts are for evenly distributed loads only.
- Load center will vary depending on the amount of material in the ladle. Always ensure compliance with the capacity chart.
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices. Position ladle and open ladle gate to release load.

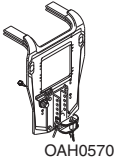
## Section 5 - Attachments and Hitches

---

### 5.8 HITCHES

#### Mechanical Hitch (CE)

---



<u>Description</u>	<u>P/N</u>
Pin Hitch .....	2620049
Auto Hitch, 19M Ton .....	2620050
Pin Hitch, 6M Ton.....	2620055
Pin Hitch, 14M Ton.....	2620057
Piton Frame and Auto Hitch, 6M Ton.....	1001096522

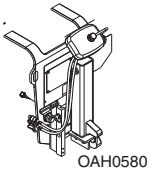
Maximum towing capacity shall be the smallest of the telehandler and hitch capacities. Refer to local governmental regulations for additional towing requirements and/or restrictions.

#### Installation Procedure:

If not previously installed, secure hitch to machine with hardware supplied with installation.

#### Hydraulic Hitch (CE)

---



<u>Description</u>	<u>P/N</u>
Hydraulic Hitch, 19M Ton.....	0273923

Maximum towing capacity shall be the smallest of the telehandler and hitch capacities. Refer to local governmental regulations for additional towing requirements and/or restrictions.

#### Installation Procedure:

If not previously installed, secure hitch to machine with hardware supplied with installation.

---

## **SECTION 6 - EMERGENCY PROCEDURES**

---

### **6.1 TOWING A DISABLED PRODUCT**

The following information assumes the telehandler cannot be moved under its own power.

- Before moving the telehandler, read all of the following information to understand options available. Then select the appropriate method.
- The steering system permits manual steering if engine or power assist feature fails; however, **steering will be slow and will require much greater force.**
- **DO NOT** attempt to tow a telehandler that is loaded or the boom/attachment is raised above 4 ft (1,2 m).

#### **Moving Short Distances**

---

- If it is only necessary to move telehandler a short distance, less than 100 ft (30 m), it is permissible to use a vehicle of sufficient capacity to tow the unit with no previous preparation. Drive wheels will not roll.

#### **Moving Longer Distances**

---

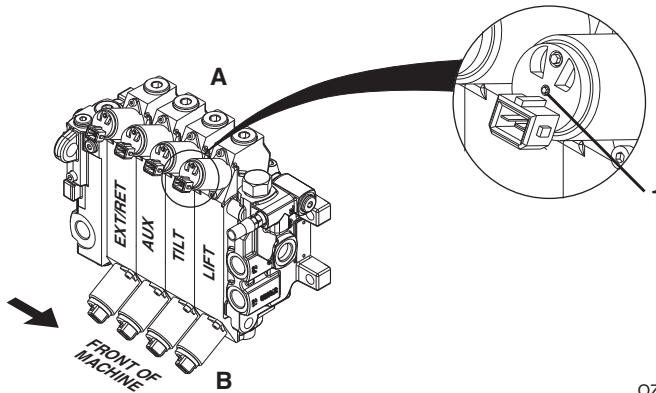
- If the telehandler must be moved longer distances, it must be loaded onto a trailer of sufficient capacity.

**Contact your local Authorized Distributor for specific instructions if neither of these methods are applicable.**

## Section 6 - Emergency Procedures

### 6.2 EMERGENCY LOWERING OF BOOM

#### Valve Layout



OZ1560

<u>Cylinder/Function</u>	<u>A</u>	<u>B</u>
Lift Cylinder:	Lower	Raise
Extend/Retract Cylinder:	Retract	Extend
Tilt Cylinder:	Down	Up
Auxiliary Hydraulics		

### Electronic Control Unit Failure

If the telehandler's electronic control unit fails, the boom can be retracted then lowered manually. With the engine running perform the following:

1. Shift transmission control lever to neutral, apply parking brake and block wheels.
2. Open the rear cover.
3. Using a small tool carefully depress the button (1) on the solenoid.



## WARNING

**TIP OVER HAZARD.** To be used for retracting then lowering load only. Extending/lifting load could damage the equipment and/or cause tip over resulting in death or serious injury.

### **Engine Failure**

---

In the event of total loss of engine power or hydraulic pump failure with an elevated load, the situation must be properly evaluated and dealt with on an individual basis. **Contact JLG Industries or your local Authorized Distributor for specific instructions.**

Secure the telehandler using the following procedures:

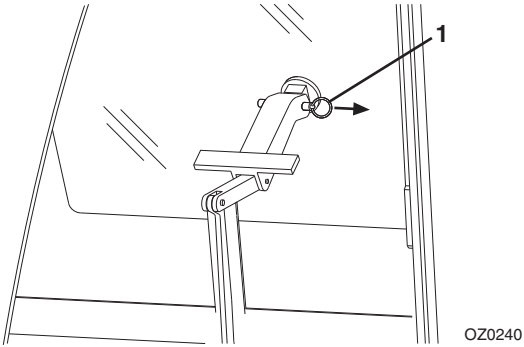
1. Clear the area around telehandler of all personnel.
2. Engage the parking brake. Place the transmission control lever in "NEUTRAL".
3. Block all four wheels.

Section off a large area under the boom with string or tape to restrict any personnel from entering this area.

## Section 6 - Emergency Procedures

---

### 6.3 CAB EMERGENCY EXIT



- In an emergency the rear window can be used to exit the telehandler.
- Remove the latch pin (1). The window is then free to swing open.



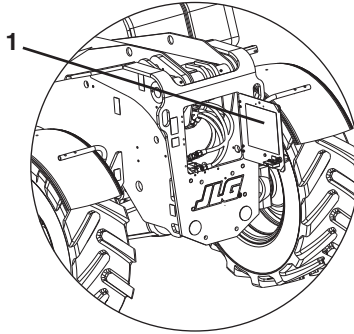
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## **SECTION 7 - LUBRICATION AND MAINTENANCE**

---

### **7.1 INTRODUCTION**

Service the product in accordance with the maintenance schedule on the following pages.



OAH0361

**VIEW OF REAR ACCESS DOOR**

The Lubrication Decal (1) is located as indicated in figure. The lubrication instructions that must be followed to keep this product in good operating condition. The Operation & Safety Manual and Service Manual contain more detailed service information with specific instructions.

### **Clothing and Safety Gear**

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- Wear all the protective clothing and personal safety devices issued to you or called for by job conditions.
- **DO NOT** wear loose clothing or jewelry that can get caught on controls or moving parts.

## **Section 7 - Lubrication and Maintenance**

---

### **7.2 GENERAL MAINTENANCE INSTRUCTIONS**

**Prior to performing any service or maintenance on the telehandler, follow the shut-down procedure on page 4-3 unless otherwise instructed. Ensure telehandler is level, for proper fluid readings.**

- Clean lubrication fittings before lubricating.
- After greasing telehandler, cycle all functions several times to distribute lubricants. Perform this maintenance procedure without attachment installed.
- Apply a light coating of engine oil to all linkage pivot points.
- Intervals shown are for normal usage and conditions. Adjust intervals for abnormal usage and conditions.
- Drain engine and gear cases after operating when oil is hot.
- Check all lubricant levels when lubricant is cool. For ease of filling hydraulic reservoir, use a funnel with a hose or flexible tube for best results.



## **WARNING**

**CUT/CRUSH/BURN HAZARD.** Do not perform service or maintenance on the machine with the engine running.

7.3 SERVICE AND MAINTENANCE SCHEDULE

8 & 1st 50 Hour Maintenance Schedule



EVERY

8 



Check Fuel Level



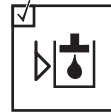
Check Tire Pressure



Air Filter Restriction Indicator



Check Engine Oil Level



Check Hydraulic Oil Level



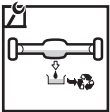
Check Brake Fluid Level



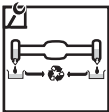
Test Load Moment Indicator

1<sup>st</sup>

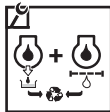
50 



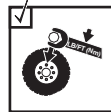
Change Axle Oil



Change Wheel End Oil



Change Engine Oil & Filter



Check Wheel Lug Nut Torque

OAH0371

# Section 7 - Lubrication and Maintenance

## 50, 250 & 500 Hour Maintenance Schedule



**EVERY**

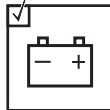
**50** 



Drain Fuel/  
Water  
Separator



Check Engine  
Coolant Level



Check  
Battery



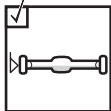
Follow Lubrication  
Schedule on  
Pages 7-6 & 7-7

**EVERY**

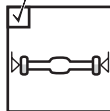
**250** 



Change Engine  
Oil and  
Filter



Check Axle  
Oil Level



Check Wheel  
End Oil Levels



Air Filter  
Vacuator  
Valve



Check  
Fan Belt



Check Boom  
Bearing  
Pads

**EVERY**

**500** 



Change Fuel  
Filters



Check Wheel  
Lug Nut  
Torque

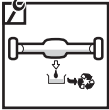
OAH0041

## Section 7 - Lubrication and Maintenance

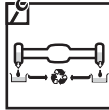
### 1000 & 1500 Hour Maintenance Schedule



**EVERY**  
**1000** 



Change  
Axle Oil

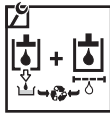


Change Wheel  
End Oil

**EVERY**  
**1500** 



Change  
Engine Coolant



Change  
Hydraulic  
Fluid & Filters



Change  
Hydraulic Tank  
Breather



Change  
Brake Fluid

OAHO050

## Section 7 - Lubrication and Maintenance

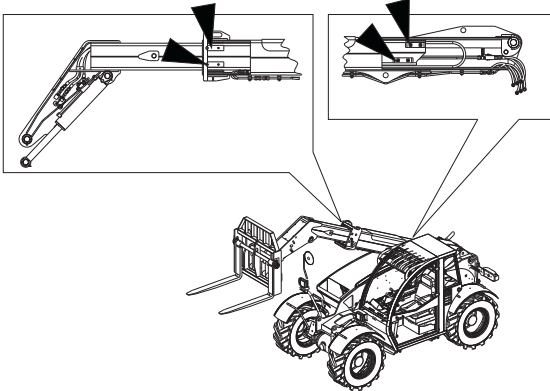
### 7.4 LUBRICATION SCHEDULES

#### 8 Hour Lubrication Schedule

Mystik Tetrimoly Grease  
(NLGI 2 GC-LB)

EVERY

8 

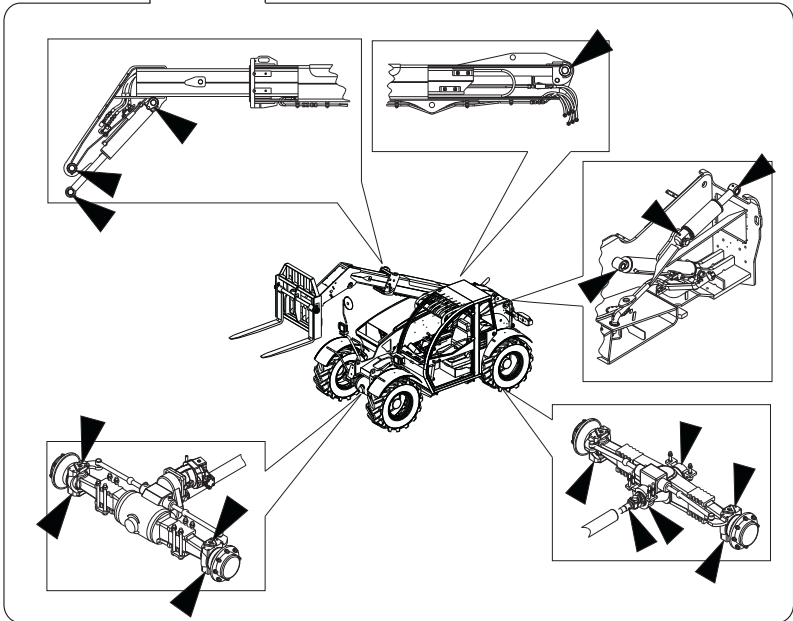


MAH08201

50 Hour Lubrication Schedule

Mystik Tetrिमoly Grease  
(NLGI 2 GC-LB)

EVERY  
50 ⌚



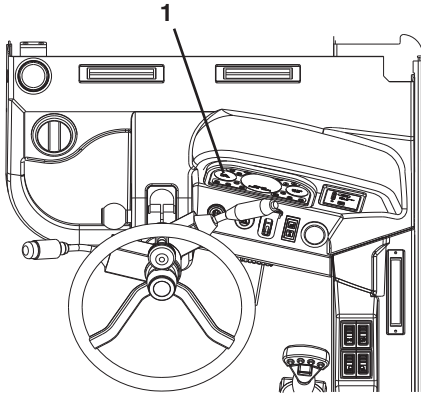
MAH08301

## Section 7 - Lubrication and Maintenance

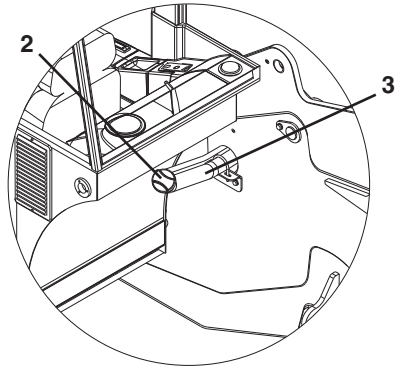
### 7.5 OPERATOR MAINTENANCE INSTRUCTIONS

#### Fuel System

##### A. Fuel Level Check



OAH0410



OAH0110

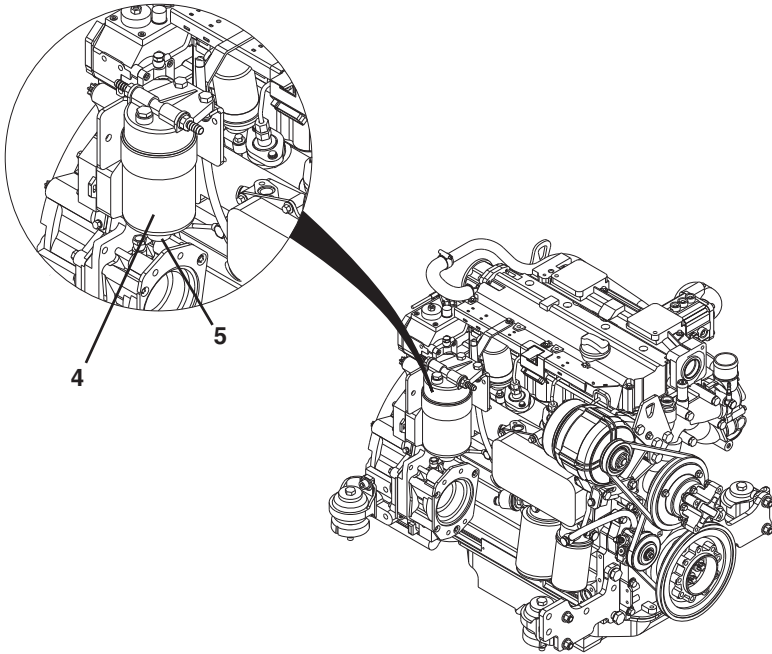
1. Check fuel gauge (1) located on instrument panel in cab.
2. If fuel is low, proceed to fuel source and perform "Shut-Down Procedure" on page 4-3.
3. Turn fuel tank cap (2) and remove from filler neck (3). Add diesel fuel as needed. Replace fuel tank cap.

**Note:** Replenish diesel fuel at end of each work shift to minimize condensation.



### B. Drain Fuel/Water Separator

50   
OW0980



OAH0010

1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Loosen drain cock (5) on underside of fuel filter (4) and allow all water to drain into a glass until clear fuel is visible. Tighten drain cock.
4. Close and secure the engine cover.

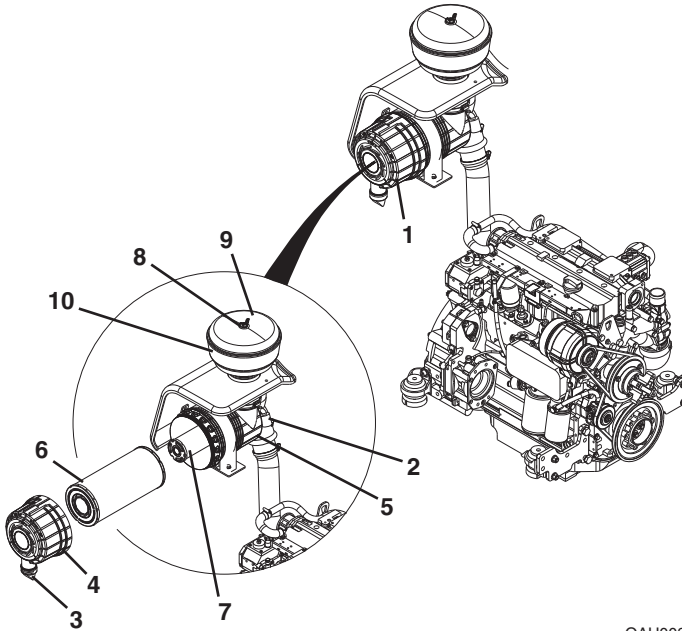
## Section 7 - Lubrication and Maintenance

### Air Intake System

#### A. Air Filter Restriction Indicator Check

8   
OW1150

  
OW1010



OAH0020

1. Perform "Shut-Down Procedure" on page 4-3.
2. Open the engine cover.
3. Locate air cleaner (1) and check restriction indicator (2). If red band is visible, filter(s) must be replaced.
4. Remove dust from vacuumator valve (3) by squeezing bottom of valve to allow loose particles to fall out.
5. Locate pre-cleaner (10) and loosen wing nut (8) and remove cover (9) from pre-cleaner canister.
6. Remove dust from bowl.
7. Replace bowl and cover.
8. Close and secure the engine cover.

**Note:** Only remove canister cover to service the elements as restriction indicator indicates. Excessive access to check an element can lead to premature element failure.

## **Section 7 - Lubrication and Maintenance**

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### **B. Element Change (as restriction indicator indicates)**

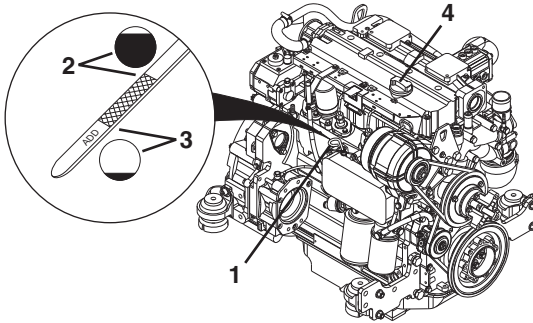
1. Unlock air cleaner cover (4), turn counterclockwise and remove from air cleaner canister (5).
2. Remove outer primary element (6) and inspect for damage. Damaged elements should not be reused.
3. Thoroughly clean the interior of the air cleaner canister and vacuator valve.
4. Replace inner safety element (7) after every third primary element change. If replacing the inner safety element at this time, carefully slide the element out and replace with new element.
5. Slide the new primary element over the inner element making sure the sealing edge is flush with the base of the air cleaner.
6. Position air cleaner cover in place, turn clockwise and lock into position.
7. Depress button on restriction indicator to reset.

**Note:** *An inner safety element should never be washed or reused. Always install a new element.*

## Section 7 - Lubrication and Maintenance

### Engine Oil

#### A. Engine Oil Level Check

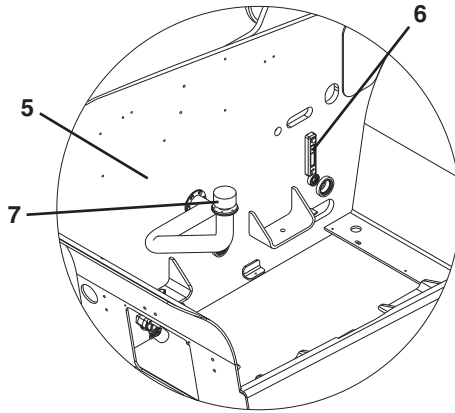


OAH0080

1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Remove dipstick (1) and check oil mark. The oil should be between the full (2) and add (3) marks within the crosshatched area of the dipstick.
4. If oil is low, remove oil fill cap (4) and add motor oil to bring oil up to the full mark in the crosshatch area.
5. Replace oil fill cap and dipstick.
6. Close and secure the engine cover.

### Hydraulic Oil

#### A. Hydraulic Oil Level Check



OAH0070

1. Be sure all cylinders are fully retracted and machine is level.
2. Perform “*Shut-Down Procedure*” on page 4-3.
3. Open the engine cover.
4. Check level of hydraulic oil at the sight gauge (6) on the hydraulic tank (5). The oil level should be visible in the gauge window.
5. If hydraulic oil is low, remove oil fill cap (7) from filler neck. Add hydraulic fluid to bring oil up to the upper mark on the sight gauge.
6. Replace hydraulic oil fill cap.
7. Close and secure the engine cover.

# Section 7 - Lubrication and Maintenance

## Tires

### A. Tire Air Pressure Check



1. Perform “Shut-Down Procedure” on page 4-3.
2. Remove valve stem cap.
3. Check tire pressure using a good quality gauge.
4. Add air if required.

405/70-20 (266, 307 & 266 LoPro).....	3,5 bar (51 psi)
405/70-24 (266 & 307) .....	4 bar (58 psi)
17.5-24 (307).....	2,2 bar (32 psi)
12.5-18 (266 LoPro) .....	5 bar (73 psi)
5. Replace valve stem cap.

### B. Tire Damage

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

### C. Tire and Wheel Replacement

JLG recommends a replacement tire to be the same size, ply and brand as originally installed. Refer to the appropriate parts manual for ordering information. If not using a JLG approved replacement tire, JLG recommends 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, do not replace a foam filled or ballast filled tire assembly with a pneumatic tire. Due to size variations between tire brands, when selecting and installing a replacement tire ensure both tires on the axle are the same.

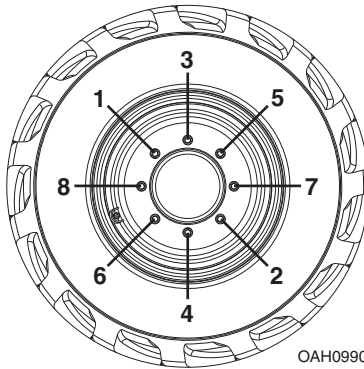
The rims installed have been designed for stability requirements which consist of track width, tire pressure and load capacity. Size changes such as rim width, center piece location, larger or smaller diameter, etc., without written factory recommendations, may result in unsafe condition regarding stability.

### E. Wheel Installation

Torque lug nuts before first use and after each wheel removal.

**Note:** The wheel and tire assemblies must be installed with the directional tread pattern "arrows" facing in the direction of forward travel.

1. Install wheel lug washers.
2. Start all nuts by hand to prevent cross threading. DO NOT use a lubricant on threads or nuts.
3. Tighten lug nuts in an alternating pattern as indicated in figure. Torque to 221 lb-ft (300 Nm).



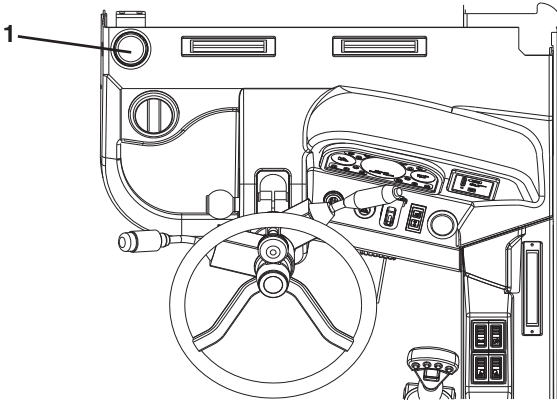
## WARNING

**TIP OVER HAZARD.** Lug nuts must be installed and maintained at the proper torque to prevent loose wheels, broken studs and possible separation of wheel from the axle.

## Section 7 - Lubrication and Maintenance

### Brake System

#### A. Brake Fluid Level Check



OAH0400

1. Perform “*Shut-Down Procedure*” on page 4-3.
2. The brake fluid level should be between the MIN and MAX marks on the reservoir.
3. If brake fluid level is low, add fluid as needed (1).

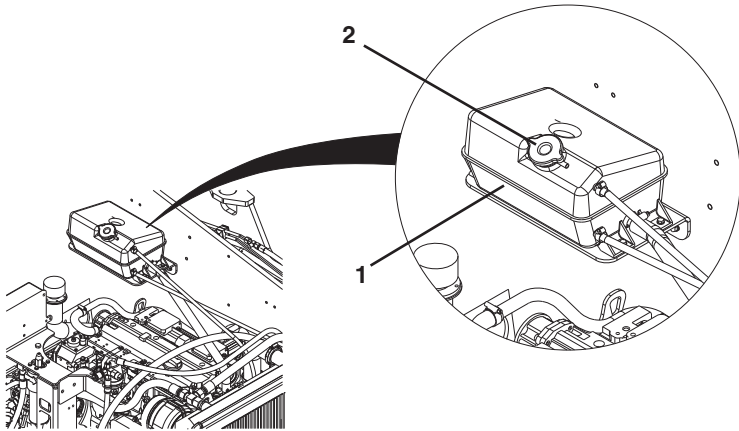
**Note:** All other work on the brake system must be performed by qualified personnel.



Engine Cooling System

A. Engine Coolant Level Check

50   
OW0980



OAH0060

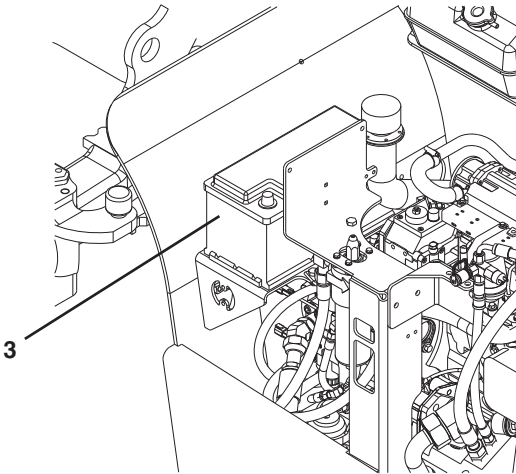
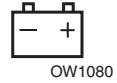
1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Check coolant level in overflow bottle (1). When coolant is hot, bottle should be 1/2 to 3/4 full. When coolant is cool, bottle should be 1/4 to 1/2 full.
4. If coolant is low, remove overflow bottle cap (2) and add coolant as required.
5. Replace overflow bottle cap.
6. Close and secure the engine cover.

## Section 7 - Lubrication and Maintenance

### Battery

#### A. Battery Check

50   
OW0980



OAH0090

1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Wearing eye protection, visually inspect the battery (3). Check terminals for corrosion. Replace battery if it has a cracked, melted or damaged case.
4. Close and secure the engine cover.

---

## SECTION 8 - ADDITIONAL CHECKS

---

### 8.1 GENERAL

If any test gives a different result, the system is not functioning properly and the machine must be removed from service and repaired before continued operation.

---

### 8.2 LOAD STABILITY INDICATOR TEST



The Load Stability Indicator (LSI) is intended to continuously monitor the forward stability of the telehandler. To check this feature, perform the following:

1. **Fully retract and level boom, with no load. Do not raise the boom during this test.**
2. Ensure frame is level.
3. Press the test button on the LSI display. This will cause all LEDs to flash on and an audible warning to sound. This indicates that the system is functioning properly. If the test gives a different result, the system is not functioning properly and the machine must be removed from service and repaired before continued operation.

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## SECTION 9 - SPECIFICATIONS

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### 9.1 PRODUCT SPECIFICATIONS

#### Fluid and Lubrication Capacities

---

##### Engine Crankcase Oil

Capacity with Filter Change ..... 9,0 liters (9.6 quarts)

Type of Oil ..... 15W-40 CE

##### Fuel Tank

###### Capacity

266 & 266 LoPro ..... 95 liters (25 gallons)

307 ..... 102 liters (27 gallons)

Type of Fuel ..... Diesel (U.S.A.: #2 Diesel)

##### Cooling System

System Capacity ..... 15,1 liters (16 quarts)

Type of Coolant ..... 50/50 ethylene glycol & water

##### Hydraulic System

###### System Capacity

266 & 266 LoPro ..... 106 liters (28 gallons)

307 ..... 133 liters (35 gallons)

###### Reservoir Capacity to Full Mark

266 & 266 LoPro ..... 64 liters (17 gallons)

307 ..... 87 liters (23 gallons)

Type of Oil ..... Mobilfluid® 424 Tractor Hydraulic Fluid (ISO 46)

## Section 9 - Specifications

---

### Axles

#### Differential Housing Capacity (Front Axle)

266 & 266 LoPro .....	7,9 liters (8.4 quarts)
307 .....	8 liters (8.5 quarts)

#### Differential Housing Capacity (Rear Axle)

266 & 266 LoPro .....	5 liters (5.3 quarts)
307 .....	7,8 liters (8.3 quarts)

#### Wheel End Capacity

266 & 266 LoPro .....	0,8 liters (.84 quarts)
307 .....	0,65 liters (.69 quarts)

Type of Fluid .....	Mobilube HDLS 80W-90
	Mobilfluid® 424 Tractor Hydraulic Fluid
	Shell Spirax LS
	Esso Torque Fluid 62
	Selenia Ambra STF 80W-90

### Tires

---

405/70-20 .....	3,5 bar (51 psi)
405/70-24 (266 & 307).....	4 bar (58 psi)
17-5-24 (307).....	2,2 bar (32 psi)
12.5-18 (266 LoPro) .....	5 bar (73 psi)

### Wheel Lug Nut

Torque.....	300 Nm (221 lb-ft)
-------------	--------------------

### Performance

---

#### Maximum Lift Capacity

266 & 266 LoPro .....	2.600 kg (5,732 lb)
307 .....	3.000 kg (6,613 lb)

#### Maximum Lift Height

266 & 266 LoPro .....	5,79 m (19 ft)
307 .....	6,93 m (22.74 ft)

#### Capacity at Maximum Height

266 & 266 LoPro	
CE .....	2.200 kg (4,850 lb)
AUS .....	1.800 kg (3,968 lb)
307	
CE .....	2.600 kg (5,732 lb)
AUS .....	3.000 kg (6,613 lb)

#### Maximum Forward Reach

266 & 266 LoPro .....	3,16 m (10.37 ft)
307 .....	3,9 m (12.80 ft)

#### Capacity at Maximum Forward Reach

266 & 266 LoPro	
CE .....	1.000 kg (2,205 lb)
AUS .....	850 kg (1,874 lb)
307	
CE .....	1.150 kg (2,535 lb)
AUS .....	850 kg (1,874 lb)

#### Reach at Maximum Height

266 & 266 LoPro .....	0,8 m (2.6 ft)
307 .....	0,9 m (3.0 ft)

#### Break-out Force with Standard Bucket

266 & 266 LoPro .....	34.800 kN (7,816 lb-force)
307 .....	55.114 kN (12,390 lb-force)

#### Towing Capacity

266 & 266 LoPro .....	2.000 kg (4,409 lb)
307 .....	3.000 kg (6,614 lb)

#### Carriage Rotation

266 & 266 LoPro .....	140 degrees
307 .....	140 degrees

## Section 9 - Specifications

---

### Dimensions

---

#### Overall Height

266 .....	2.180 mm (85.8 in)
266 LoPro .....	2.000 mm (78.7 in)
307 .....	2.354 mm (92.7 in)

#### Overall Width

266 & 266 LoPro .....	2.050 mm (80.7 in)
307 .....	2.300 mm (90.6 in)

#### Cab Width

266 & 266 LoPro .....	890 mm (35 in)
307 .....	890 mm (35 in)

#### Track Width

266 & 266 LoPro .....	1.633 mm (64.3 in)
307 .....	1.893 mm (74.5 in)

#### Wheelbase

266 & 266 LoPro .....	2.690 mm (105.9 in)
307 .....	2.900 mm (114.2 in)

#### Length at Front Wheels

266 & 266 LoPro .....	3.854 mm (151.7 in)
307 .....	4.144 mm (163.1 in)

#### Length at Fork-Holder Plate

266 & 266 LoPro .....	4.364 mm (171.8 in)
307 .....	4.915 mm (193.5 in)

#### Ground Clearance

266 .....	496 mm (19.5 in)
266 LoPro .....	340 mm (13.4 in)
307 .....	439 mm (17.2 in)

#### Turning Radius Over Tires

266 & 266 LoPro .....	3.900 mm (153.8 in)
307 .....	4.400 mm (171.8 in)

#### Turning Radius at Forks

266 & 266 LoPro .....	5.100 mm (200 in)
307 .....	5.400 mm (212 in)

#### Gross Vehicle Weight with Forks

266 & 266 LoPro .....	6.060 kg (13,360 lb)
307 .....	7.207 kg (15,888 lb)

#### Front Axle Weight

266 & 266 LoPro .....	3.270 kg (7,209 lb)
307 .....	3.840 kg (8,466 lb)



### Rear Axle Weight

266 & 266 LoPro .....	2.790 kg (6,151 lb)
307 .....	3.367 kg (7,422 lb)

### Noise Emission Level

---

- The telehandler is approved under the applicable EC directives.
- The LWA sound power level is shown on the machine.
- To avoid any increase in noise emission, after maintenance and repair work, all panels and other sound absorbing materials must be replaced in their original condition. Do not modify the machine in such a manner as to increase noise emissions.

### Telehandler Vibration

---

When the telehandler is used in the manner intended the vibration load values measured at the operator's seat are less than or equal to the test vibration values for the corresponding class of machinery per ISO 7096. The "azw" vibration acceleration values measured according to prEN 13059, therefore meet the requirements for whole body vibration protection in EN 474-1.

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An Oshkosh Corporation Company

# TRANSFER OF OWNERSHIP

**To Product Owner:**

If you now own but ARE NOT the original purchaser of the product covered by this manual, we would like to know who you are. For the purpose of receiving safety-related bulletins, it is very important to keep JLG Industries, Inc. updated with the current ownership of all JLG products. JLG maintains owner information for each JLG product and uses this information in cases where owner notification is necessary.

Please use this form to provide JLG with updated information with regard to the current ownership of JLG products. Please return completed form to the JLG Product Safety & Reliability Department via facsimile or mail to address as specified below.

Thank You,  
Product Safety & Reliability Department  
*JLG Industries, Inc.*  
13224 Fountainhead Plaza  
Hagerstown, MD 21742  
USA  
Telephone: +1-717-485-6591  
Fax: +1-301-745-3713

**NOTE:** Leased or rented units should not be included on this form.

**Mfg. Model:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**Previous Owner:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Country:** \_\_\_\_\_ **Telephone:** (\_\_\_\_\_) \_\_\_\_\_

**Date of Transfer:** \_\_\_\_\_

**Current Owner:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Country:** \_\_\_\_\_ **Telephone:** (\_\_\_\_\_) \_\_\_\_\_

**Who in your organization should we notify?**

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_







3126023



An Oshkosh Corporation Company

*JLG Industries, Inc.*  
*1 JLG Drive*  
*McConnellsburg PA. 17233-9533*  
*USA*  
*Phone: +1-717-485-5161*  
*Customer Support Toll Free: 1-877-554-5438*  
*Fax: +1-717-485-6417*

## ***JLG Worldwide Locations***

---

JLG Industries (Australia)  
P.O. Box 5119  
11 Bolwarra Road  
Port Macquarie  
N.S.W. 2444  
Australia  
Phone: +61 2 65811111  
Fax: +61 2 65813058

JLG Latino Americana Ltda.  
Rua Antonia Martins Luiz, 580  
Distrito Industrial João Narezzi  
13347-404 Indaiatuba - SP  
Brazil  
Phone: +55 19 3936 8870  
Fax: +55 19 3935 2312

JLG Industries (UK) Ltd  
Bentley House  
Bentley Avenue  
Middleton  
Greater Manchester  
M24 2GP - England  
Phone: +44 (0)161 654 1000  
Fax: +44 (0)161 654 1001

JLG France SAS  
Z.I. de Baulieu  
47400 Fauillet  
France  
Phone: +33 (0)5 53 88 31 70  
Fax: +33 (0)5 53 88 31 79

JLG Deutschland GmbH  
Max-Planck-Str. 21  
D - 27721 Ritterhude-Ihlpohl  
Germany  
Phone: +49 (0)421 69 350 20  
Fax: +49 (0)421 69 350 45

JLG Equipment Services Ltd.  
Rm 1107 Landmark North  
39 Lung Sum Avenue  
Sheung Shui N.T.  
Hong Kong  
Phone: +852 2639 5783  
Fax: +852 2639 5797

JLG Industries (Italia) s.r.l.  
Via Po. 22  
20010 Pregnana Milanese - MI  
Italy  
Phone: +39 029 359 5210  
Fax: +39 029 359 5845

JLG Europe B.V.  
Polaris Avenue 63  
2132 JH Hoofddorp  
The Netherlands  
Phone: +31 (0)23 565 5665  
Fax: +31 (0)23 557 2493

JLG Polska  
Ul. Krolewska  
00-060 Warszawa  
Poland  
Phone: +48 (0)914 320 245  
Fax: +48 (0)914 358 200

Plataformas Elevadoras  
JLG Iberica, S.L.  
Trapadella, 2  
P.I. Castellbisbal Sur  
08755Castellbisbal, Barcelona  
Spain  
Phone: +34 93 772 4 700  
Fax: +34 93 771 1762

JLG Sverige AB  
Enkopingsvagen 150  
Box 704  
SE - 176 27 Jarfalla  
Sweden  
Phone: +46 (0)850 659 500  
Fax: +46 (0)850 659 534