



---

# ***Operation & Safety Manual***

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

## ***Models G10-55A & G12-55A AccuPlace***

**3128447**

*Revised  
January 5, 2010*



**CALIFORNIA PROPOSITION 65**  
**BATTERY WARNING**

**Battery posts,  
terminals and related  
accessories contain  
lead and lead compounds,  
chemical known to the  
State of California  
to cause cancer and  
reproductive harm.**

**WASH HANDS  
AFTER HANDLING!**

**CALIFORNIA PROPOSITION 65**  
**EXHAUST WARNING**

**Diesel Engine exhaust and  
some of its constituents  
are known to the State of  
California to cause cancer,  
birth defects and other  
reproductive harm.**

## **REVISION LOG**

December 5, 2008 - A - Original Issue of Manual

December 19, 2008 - B - Revised page 3-15.

January 5, 2010 - C - Revised covers and pages b, 1-5, 1-6, 2-1, 2-6, 4-5, 4-8, 5-2, 5-14, 5-15, 5-16, 5-18, 5-20, 5-22, 5-24 thru 5-28, 5-30, 5-32, 7-3, 7-5, 7-16, 7-19, 7-21, 9-2 & 9-3.

## ***Read This First***

---

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**

---

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 (ANSI only)
- 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**

---

**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***

---

**Other Publications Available**

---

Service Manual.....31200452

Parts Manual .....31200454

**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.*

---

**TABLE OF CONTENTS****Revision Log****Read This First**

|                                    |   |
|------------------------------------|---|
| Operator Qualifications .....      | b |
| Modifications .....                | b |
| Other Publications Available ..... | d |

**Table of Contents****Section 1 - General Safety Practices**

|                                                   |      |
|---------------------------------------------------|------|
| 1.1 Hazard Classification system .....            | 1-1  |
| Safety Alert System and Safety Signal Words ..... | 1-1  |
| 1.2 General Precautions .....                     | 1-1  |
| 1.3 Operation Safety .....                        | 1-2  |
| Electrical Hazards .....                          | 1-2  |
| Tip Over Hazard .....                             | 1-3  |
| Travel Hazard .....                               | 1-6  |
| Load Falling Hazard .....                         | 1-7  |
| Lifting Personnel .....                           | 1-8  |
| Driving Hazards On Slopes .....                   | 1-9  |
| Pinch Points and Crush Hazards .....              | 1-10 |
| Fall Hazard .....                                 | 1-12 |
| Chemical Hazards .....                            | 1-13 |

**Section 2 - Pre-Operation and Inspection**

|                                              |      |
|----------------------------------------------|------|
| 2.1 Pre-Operation Check and Inspection ..... | 2-1  |
| 2.2 Safety Decals .....                      | 2-3  |
| 2.3 Walk-Around Inspection .....             | 2-6  |
| 2.4 Warm-Up and Operational Checks .....     | 2-8  |
| Warm-Up Check .....                          | 2-8  |
| Operational Check .....                      | 2-8  |
| 2.5 Operator Cab .....                       | 2-9  |
| 2.6 Windows .....                            | 2-10 |
| Cab Door Window (if equipped) .....          | 2-10 |

**Section 3 - Controls and Indicators**

|                                  |     |
|----------------------------------|-----|
| 3.1 General .....                | 3-1 |
| 3.2 Controls .....               | 3-2 |
| Instrument Panel .....           | 3-4 |
| Display .....                    | 3-5 |
| Ignition .....                   | 3-6 |
| Park Brake .....                 | 3-7 |
| Parking Procedure .....          | 3-7 |
| Transmission Control Lever ..... | 3-8 |

**Table of Contents**

Boom Joystick ..... 3-10

Frame Level Joystick..... 3-12

Auxiliary Hydraulic Joystick ..... 3-13

Outrigger Joysticks ..... 3-14

Right Panel..... 3-15

Accessory Control Lever (if equipped) ..... 3-16

Heater and Air Conditioning Controls (if equipped) ..... 3-17

3.3 Steer Modes ..... 3-18

    Steer Mode Change ..... 3-18

3.4 Operator Seat..... 3-19

    Adjustments..... 3-19

    Seat Belt..... 3-20

3.5 Boom Angle and Extension Indicators ..... 3-21

**Section 4 - Operation**

4.1 Engine ..... 4-1

    Starting the Engine ..... 4-1

    Battery Boosted Starting..... 4-2

    Normal Engine Operation ..... 4-3

    Shut-Down Procedure ..... 4-3

4.2 Operating with a Non-Suspended Load ..... 4-4

    Lift Load Safely..... 4-4

    Picking Up a Load ..... 4-4

    Transporting a Load ..... 4-5

    Leveling Procedure..... 4-5

    Placing a Load..... 4-6

    Disengaging a Load..... 4-6

4.3 Operating with a Suspended Load ..... 4-7

    Lift Load Safely..... 4-7

    Picking Up a Suspended Load ..... 4-7

    Transporting a Suspended Load ..... 4-8

    Leveling Procedure..... 4-8

    Placing a Suspended Load..... 4-9

    Disengaging a Suspended Load ..... 4-9

4.4 Loading and Securing for Transport..... 4-10

    Tiedown ..... 4-10

    Lifting..... 4-11

**Section 5 - Attachments**

5.1 Approved Attachments ..... 5-1

5.2 Unapproved Attachments..... 5-1

5.3 JLG Supplied Attachments..... 5-2

5.4 Telehandler/Attachment/Fork Capacity ..... 5-3

---

|                                                    |                                               |      |
|----------------------------------------------------|-----------------------------------------------|------|
| 5.5                                                | Use of the Capacity Chart.....                | 5-4  |
|                                                    | Capacity Indicator Locations .....            | 5-4  |
|                                                    | Sample Capacity Chart .....                   | 5-6  |
|                                                    | Example .....                                 | 5-8  |
| 5.6                                                | Attachment Installation .....                 | 5-10 |
| 5.7                                                | Hydraulic Operated Attachment.....            | 5-12 |
| 5.8                                                | Adjusting/Moving Forks.....                   | 5-13 |
| 5.9                                                | Attachment Operation .....                    | 5-14 |
|                                                    | Carriage w/Forks.....                         | 5-15 |
|                                                    | Side Tilt Carriage .....                      | 5-16 |
|                                                    | Swing Carriage .....                          | 5-18 |
|                                                    | Mast Carriage .....                           | 5-20 |
|                                                    | Mast Carriage w/Side Tilt.....                | 5-22 |
|                                                    | Fork Mounted Hook .....                       | 5-24 |
|                                                    | Truss Boom.....                               | 5-26 |
|                                                    | Bucket .....                                  | 5-28 |
|                                                    | Grapple Bucket .....                          | 5-30 |
|                                                    | Personnel Work Platform - Fork Mounted.....   | 5-32 |
| <br><b>Section 6 - Emergency Procedures</b>        |                                               |      |
| 6.1                                                | Towing a Disabled Product.....                | 6-1  |
|                                                    | Moving Short Distances .....                  | 6-1  |
|                                                    | Moving Longer Distances .....                 | 6-1  |
| 6.2                                                | Emergency Lowering of Boom.....               | 6-2  |
| 6.3                                                | Emergency Exit from Enclosed Cab .....        | 6-2  |
| <br><b>Section 7 - Lubrication and Maintenance</b> |                                               |      |
| 7.1                                                | Introduction .....                            | 7-1  |
|                                                    | Clothing and Safety Gear.....                 | 7-1  |
| 7.2                                                | General Maintenance Instructions .....        | 7-2  |
| 7.3                                                | Service and Maintenance Schedule .....        | 7-3  |
|                                                    | 10 & 1st 100 Hour Maintenance Schedule .....  | 7-3  |
|                                                    | 50, 250 & 500 Hour Maintenance Schedule ..... | 7-4  |
|                                                    | 1000 & 1500 Hour Maintenance Schedule .....   | 7-5  |
| 7.4                                                | Lubrication Schedules .....                   | 7-6  |
|                                                    | 50 Hour Lubrication Schedule.....             | 7-6  |
|                                                    | 250 Hour Lubrication Schedule.....            | 7-7  |
| 7.5                                                | Operator Maintenance Instructions.....        | 7-8  |
|                                                    | Fuel System .....                             | 7-8  |
|                                                    | Air Intake System.....                        | 7-10 |
|                                                    | Engine Oil .....                              | 7-12 |
|                                                    | Hydraulic Oil.....                            | 7-13 |
|                                                    | Tires .....                                   | 7-14 |

**Table of Contents**

---

Transmission Oil..... 7-17

Hydraulic Return Filter..... 7-18

Engine Cooling System ..... 7-19

Battery ..... 7-20

Windshield Washer System (if equipped)..... 7-21

**Section 8 - Additional Checks**

**Section 9 - Specifications**

9.1 Product Specifications..... 9-1

    Capacities..... 9-1

    Tires..... 9-2

    Performance ..... 9-3

    Dimensions..... 9-4

**Index**

**Inspection, Maintenance and Repair Log**

## **SECTION 1 - GENERAL SAFETY PRACTICES**

---

### **1.1 HAZARD CLASSIFICATION SYSTEM**

#### **Safety Alert System and Safety Signal Words**

---



**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.

---

### **1.2 GENERAL PRECAUTIONS**



Before operation, read & 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.

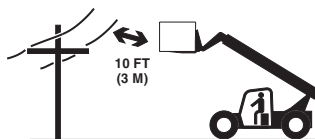
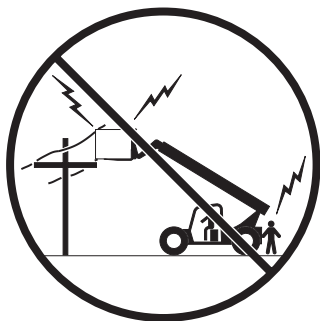
## Section 1 - General Safety Practices

---

### 1.3 OPERATION SAFETY

#### Electrical Hazards

---



OW0040

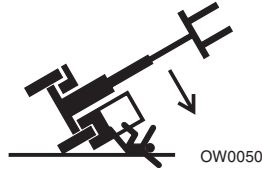
- This machine is not insulated and does not provide protection from contact or being near electrical current.
- **NEVER** operate the telehandler in an area where overhead power lines, overhead or underground cables, or other power sources may exist without ensuring the appropriate power or utility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



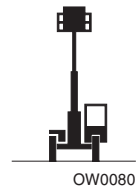
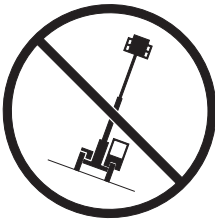
### Tip Over Hazard

#### General

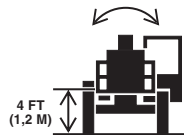
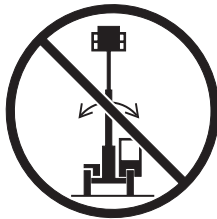
- For additional load requirements, refer to the appropriate capacity chart.



- 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.

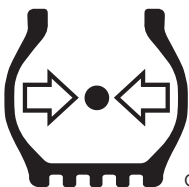


OW0100

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

## Section 1 - General Safety Practices

---



OH2291

- **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.



OH20911

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



OH2221

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**

Trying to escape from a tipping machine could result in death or serious injury.

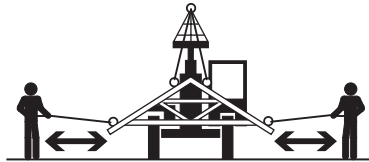
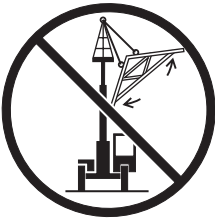
### Non-Suspended Load



OW0060

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

### Suspended Load



OW0150

- Tether suspended loads to restrict movement.
- Weight of all rigging (slings, etc.) must be included as part of load.
- 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.

When driving with a suspended load:

- Start, travel, turn and stop slowly to prevent load from swinging.
- **DO NOT** extend boom.
- **DO NOT** raise the load more than 11.8 in (300 mm) above ground surface or the boom more than 45°.
- **DO NOT** exceed walking speed.

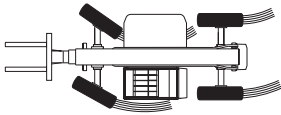
## Section 1 - General Safety Practices

---

### Travel Hazard

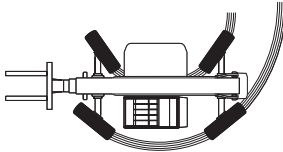
---

2-Wheel Front Steer

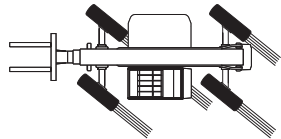


OAL2030

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**

---



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

---

### Lifting Personnel

---



OW0170

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

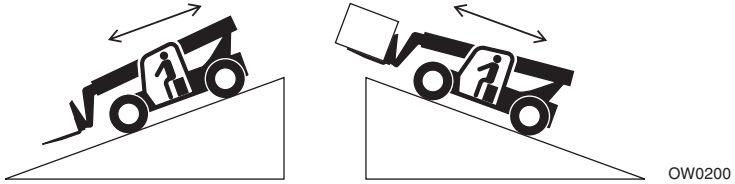


OW0190

- **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.

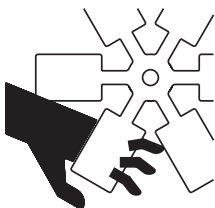
## Section 1 - General Safety Practices

---

### Pinch Points and Crush Hazards

---

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.





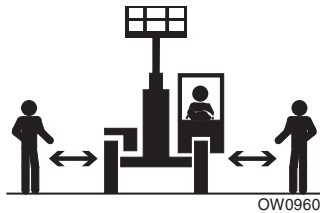
- Keep clear of boom holes.



- Keep arms and hands clear of attachment tilt cylinder.



- Keep hands and fingers clear of carriage and forks.



- Keep others away while operating.

## Section 1 - General Safety Practices

---

### Fall Hazard

---



- 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

#### 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.

**This Page Intentionally Left Blank**

## SECTION 2 - PRE-OPERATION AND INSPECTION

### 2.1 PRE-OPERATION CHECK AND INSPECTION

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

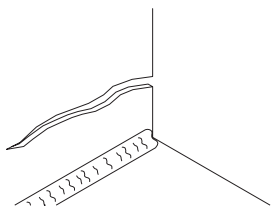


## WARNING

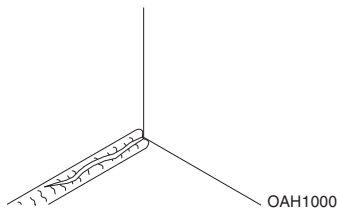
**FALL HAZARD.** Use extreme caution when checking items beyond your normal reach. Use an approved ladder.

The pre-operation check & 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 (ANSI only) 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, transmission fluid 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***

---

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.

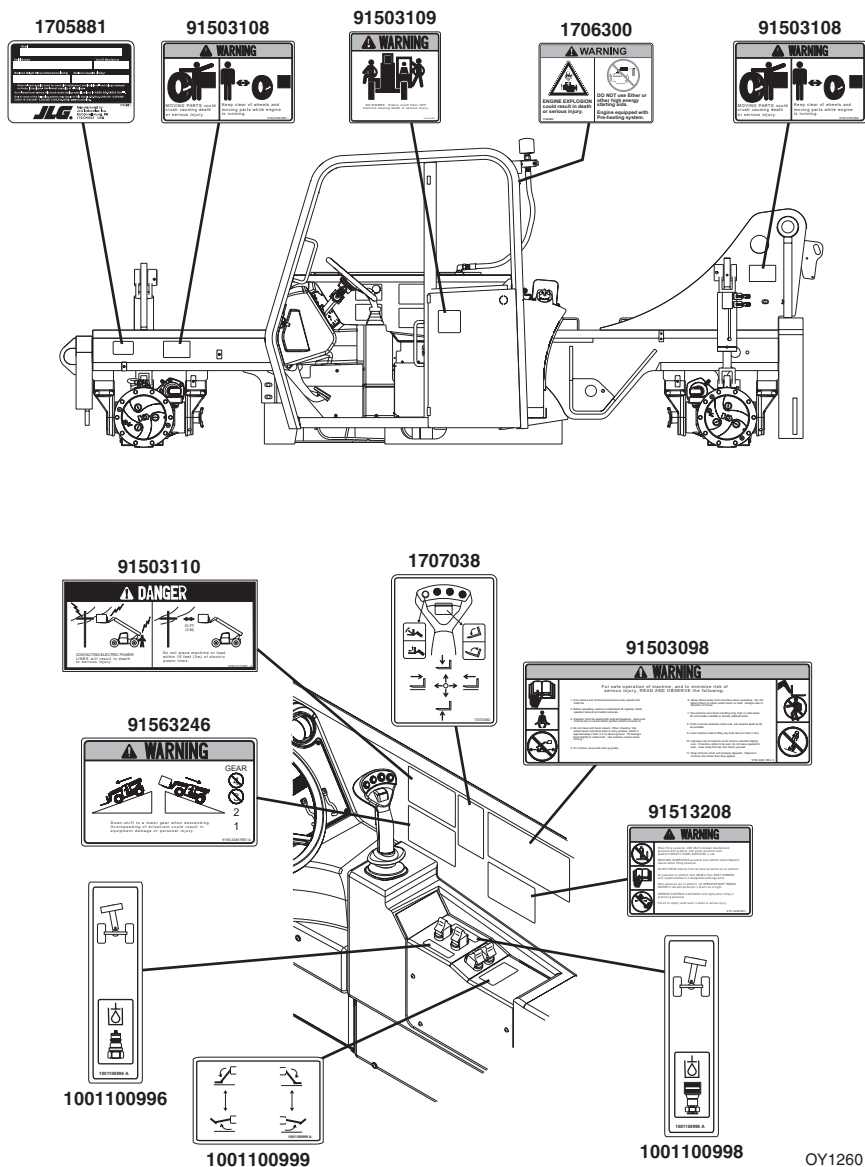


## **WARNING**

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.

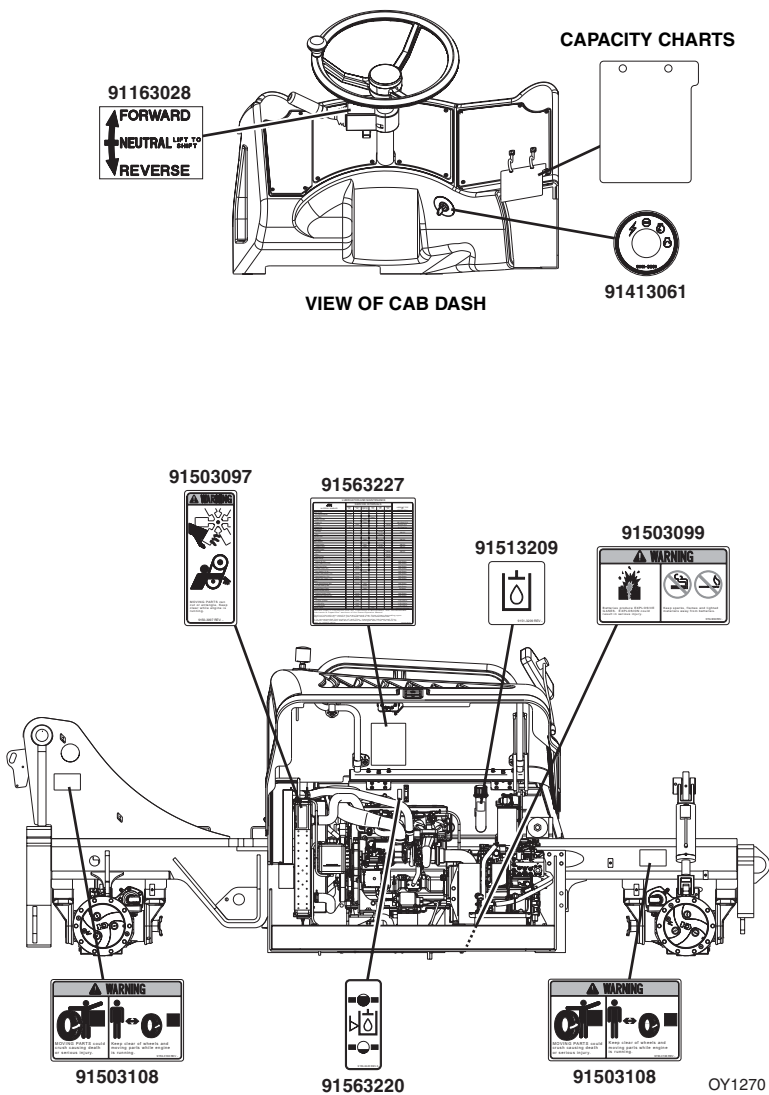
### 2.2 SAFETY DECALS

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



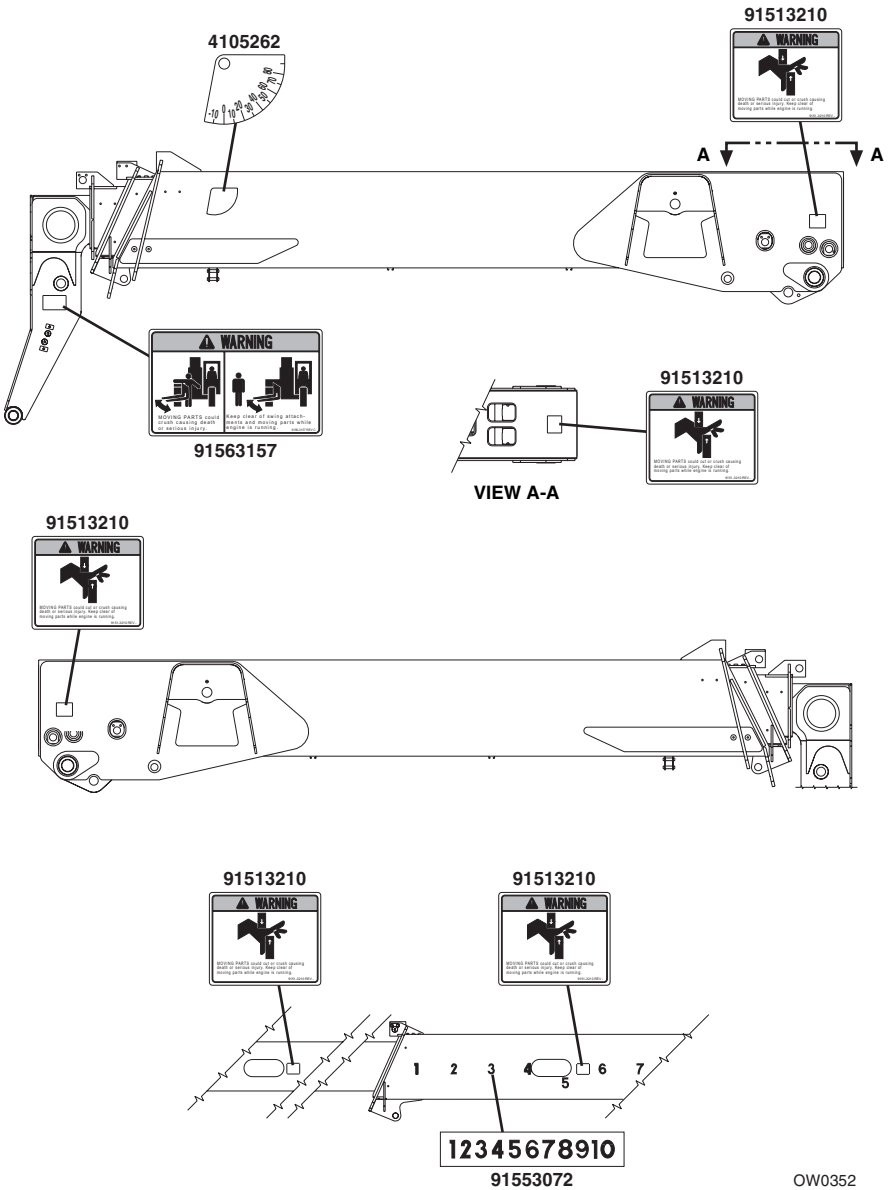
OY1260

Section 2 - Pre-Operation and Inspection



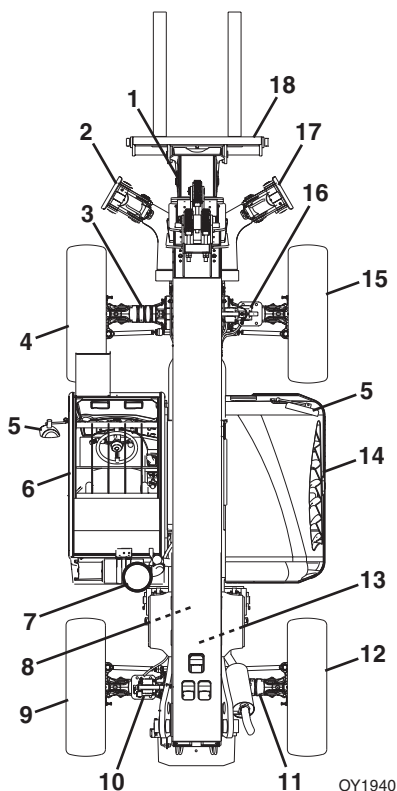


## Section 2 - Pre-Operation and Inspection



OW0352

### 2.3 WALK-AROUND INSPECTION



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 and Lift, Tilt, Extend/Retract Cylinders -

- Check front, top, side and rear wear pads for presence of grease.
- Pivot pins secure; hydraulic hoses undamaged, not leaking.

2. Left Outrigger - Pins secure; hydraulic hoses and cylinder undamaged, not leaking.

3. Front Axle - Steer cylinders undamaged, not leaking; pivot pins secure; hydraulic hoses undamaged, not leaking.

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

---

4. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
5. Mirrors - Clean and undamaged.
6. Cab and Electrical -
  - General appearance; no visible damage.
  - Frame level indicator and window glass undamaged and clean.
  - Gauges, switches, joysticks, foot controls and horn operational.
  - Emergency escape hammer in place (enclosed cab only).
  - Check seat belt for damage, replace belt if frayed or cut webbing, damaged buckles or loose mounting hardware.
7. Air Cleaner - Air cleaner element condition indicator, check for clogged condition. Replace element as required.
8. Lift Valve - See Inspection Note.
9. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
10. Stabilizer Cylinder - Pins secure; hydraulic hoses undamaged, not leaking.
11. Rear Axle - Steer cylinders undamaged, not leaking; pivot pins secure; hydraulic hoses undamaged, not leaking.
12. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
13. Ride Control Accumulator (if equipped)- See Inspection Note.
14. Engine Compartment -
  - Drive belts, check condition and replace as required.
  - Engine mounts - See inspection note.
  - Outrigger Valve - See inspection note.
  - Battery cables tight, no visible damage or corrosion.
  - Engine cover properly secured.
15. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
16. Frame Level Cylinder - Pins secure; hydraulic hoses undamaged, not leaking.
17. Right Outrigger - Pins secure; hydraulic hoses and cylinder undamaged, not leaking.
18. Attachment - Properly installed, see “Attachment Installation” on page 5-10.

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

---

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

---

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

---

During warm-up period, 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 except when checking transmission oil level and hydraulic filter condition indicator.

#### **Operational Check**

---

When engine warms, perform an 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 operator cab with engine running.
6. All joystick functions - operate smoothly and correctly.
7. Hydraulic filter condition indicator.
8. Perform any additional checks described in Section 8.

### **2.5 OPERATOR CAB**

The telehandler is equipped with an open or 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

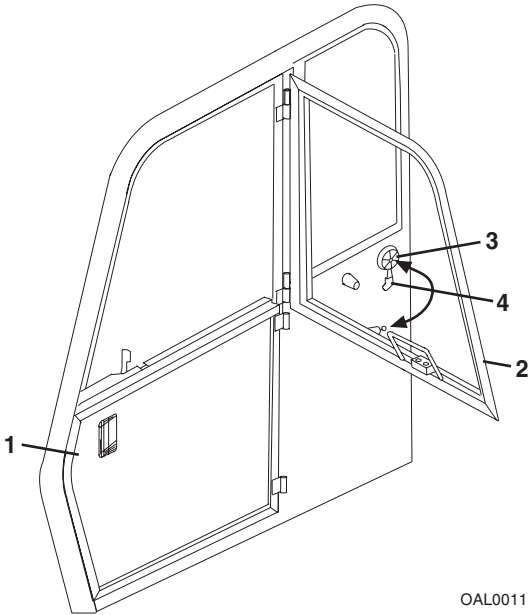
---

### 2.6 WINDOWS

Keep all windows and mirrors clean and unobstructed.

#### Cab Door Window (if equipped)

---



- Cab door (1) must be closed during operation.
- During operation the cab door window (2) must either be latched open or closed.
- Open the cab door window and secure it in the latch (3).
- Press latch release button inside the cab or pull on lever (4) outside the cab to unlatch the window.

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

---

### **3.1 GENERAL**

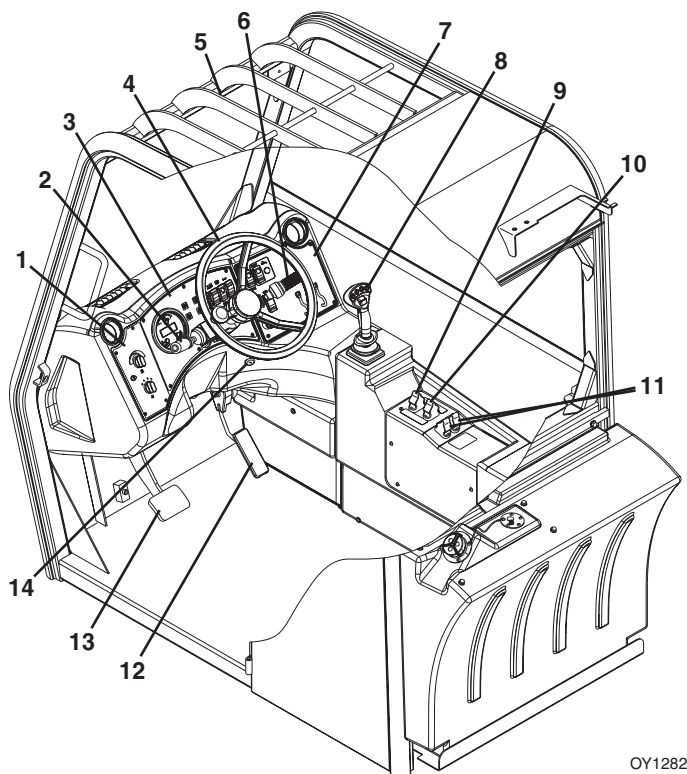
This section provides the necessary information needed to understand control functions.

**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



OY1282

1. Heater and Air Conditioning Controls (if equipped): See page 3-17.
2. Transmission Control Lever: See page 3-8.
3. Instrument Panel: See page 3-4.
4. Steering Wheel: Turning the steering wheel to the left or right steers the machine in the corresponding direction. Three steering modes are available. See "Steer Modes" on page 3-18.
5. Frame Level Indicator: Enables operator to determine the left to right level condition of the telehandler.
6. Accessory Control Lever (if equipped): See page 3-16.
7. Right Panel: See page 3-15.
8. Boom Joystick: See page 3-10.
9. Frame Level Joystick: See page 3-12.
10. Auxiliary Hydraulic Joystick: See page 3-13.



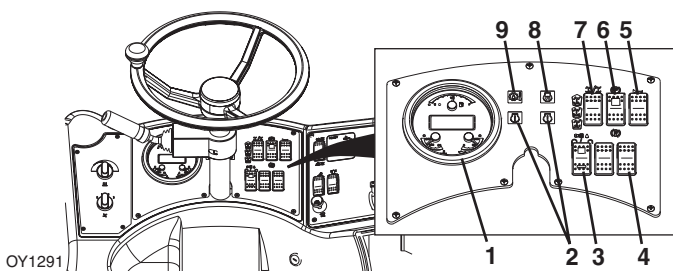
### ***Section 3 - Controls and Indicators***

---

11. Outrigger Joysticks: See page 3-14.
12. Accelerator Pedal: Pressing down the pedal increases engine and hydraulic speed.
13. Service Brake Pedal: The further the pedal is depressed, the slower the travel speed.
14. Ignition Switch: Key activated. See page 3-6.

## Section 3 - Controls and Indicators

### Instrument Panel

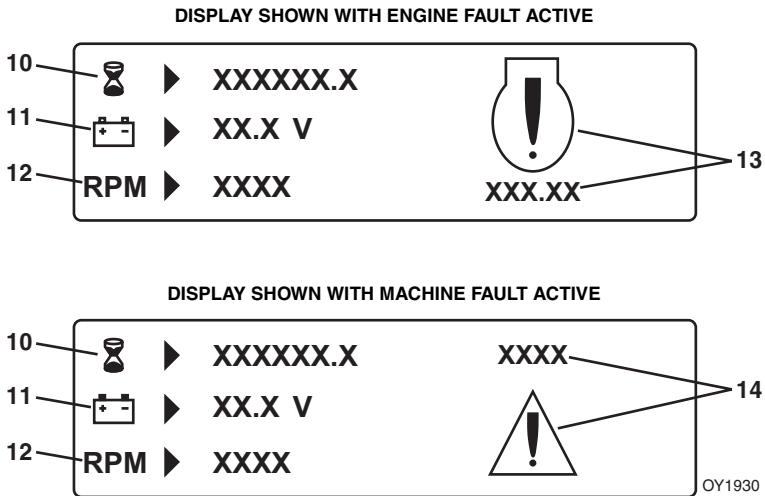


1. 3-in-1 Gauge and Display:
  - a. Engine Coolant Temperature Gauge
  - b. Engine Oil Pressure Gauge
  - c. Fuel Gauge
  - d. Display - See page 3-5.
2. Warning and Check Engine Indicators: Any combination of illumination indicates an engine fault and/or parameter that is outside of acceptable range. Engine may derate or shutdown.
3. Continuous Auxiliary Hydraulics (if equipped): Activate auxiliary hydraulics to desired level and depress switch for continuous operation. Depress switch again to deactivate continuous hydraulics.
4. Auxiliary Electrics Switch (if equipped): Enables function of attachments that require auxiliary electrics for operation. See Section 5 - Attachments for approved attachments and control instructions.
5. Horn Button: Depress button to sound horn.
6. Park Brake Switch: See page 3-7 for details.
7. Steer Select Switch: Three positions: 4-wheel circle steer, 4-wheel crab steer and 2-wheel steer. See page 3-18 for details.
8. Engine Preheat Indicator: Illuminates with ignition key in position II. At temperatures below 32°F (0°C), do not start until engine is preheated.
9. Transmission Temperature Indicator: Illuminates when transmission temperature is too high.

## NOTICE

**EQUIPMENT DAMAGE.** If check engine or transmission temperature indicators illuminate, immediately bring machine to a stop, lower boom and attachment to ground and stop the engine. Determine cause and correct before continued use.

### Display



- 10. Operating Hours: Displays total hours of telehandler operation.
- 11. Voltmeter: Displays alternator output and battery condition.
- 12. Engine Speed: Displays engine speed in revolutions per minute (rpm).
- 13. Engine Fault Indicator: Displays engine fault indicator and fault code if an active engine fault exists. Code indicates Suspect Parameter Number/Failure Mode Indicator (SPN/FMI). Contact a local Perkins Engine Distributor for fault code information.
- 14. Machine Fault Indicator: Displays machine fault indicator and fault code if an active machine fault exists (other than engine fault). Code indicates Diagnostic Trouble Code (DTC). See machine Service Manual for fault code information.

## NOTICE

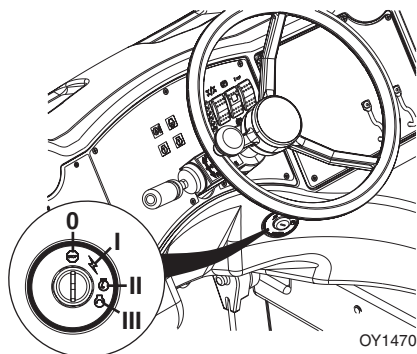
**EQUIPMENT DAMAGE.** If engine or machine faults become active, immediately bring machine to a stop, lower boom and attachment to ground and stop the engine. Determine cause and correct before continued use.

## Section 3 - Controls and Indicators

---

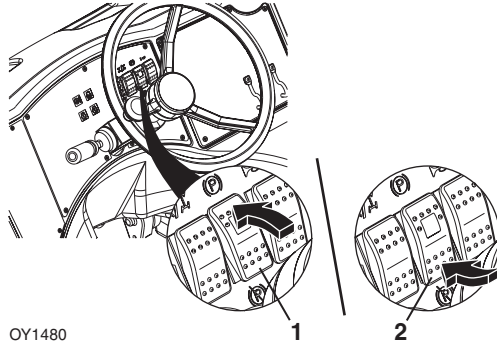
### Ignition

---



- Position 0 - Engine off.
- Position I - Voltage available for all electrical functions.
- Position II - Engine preheat at temperatures below 0° C (32° F). Hold in position for approximately 10 seconds.
- Position III - Engine start. In the event engine does not start, rotate key to position 0 then back to position III to re-engage the starter.

### Park Brake



Park brake switch controls the application and release of the park brake. Indicator light on switch illuminates to indicate brake is applied.

- Depress top of switch (1) to engage park brake. With park brake applied, transmission will not engage forward or reverse.
- Depress bottom of switch (2) to disengage park brake.



## WARNING

**MACHINE ROLL-AWAY HAZARD.** Always move park brake switch 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.

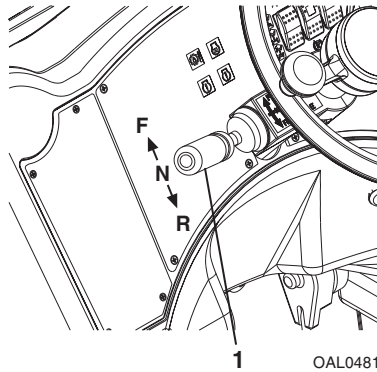
### Parking Procedure

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 Lever

#### Direction of Travel Selection



Transmission control lever (1) engages forward or reverse travel.

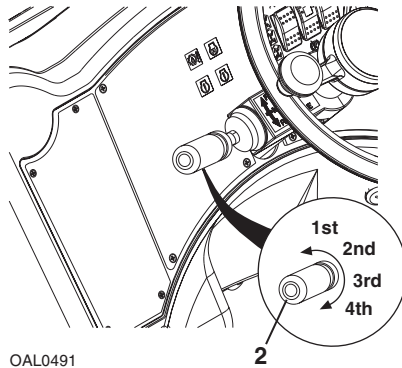
- Lift and push lever forward for forward travel; lift and pull lever rearward for reverse travel. Move lever to centered position for neutral.
- Forward or reverse travel can be selected while in any gear.
- When traveling in reverse, the back-up alarm will automatically sound.
- Drive in reverse and 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

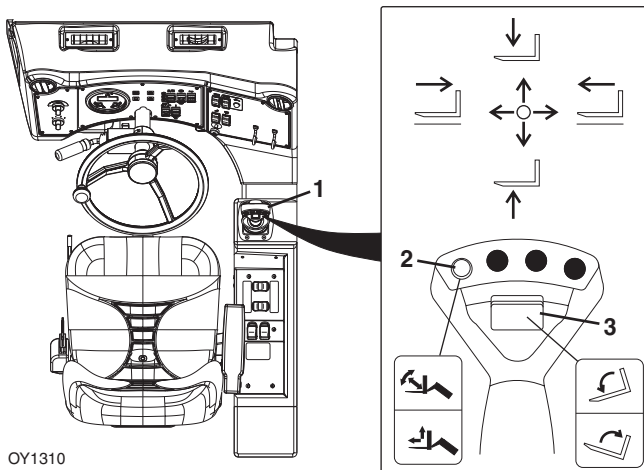


Gear selection is located on the twist grip handle (2) of transmission control lever.

- Twist hand grip to select gear.
- Select the appropriate gear for the task being performed. **Use a lower gear when transporting a load.** Use a higher gear only when driving unloaded for longer distances.
- Slow down prior to downshifting. **Do not downshift more than one gear at a time.**

## Section 3 - Controls and Indicators

### Boom Joystick



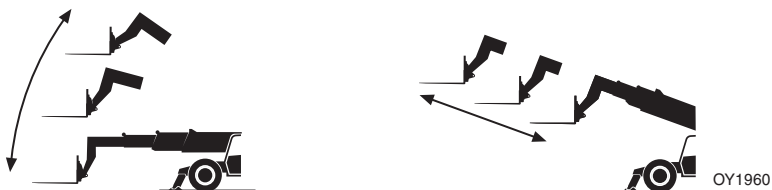
The boom joystick (1) controls boom mode and boom and attachment functions.

#### Boom Mode

Boom mode is controlled by the left button (2).

- Depress button to switch between standard and AccuPlace modes.

#### Boom Functions - Standard Mode

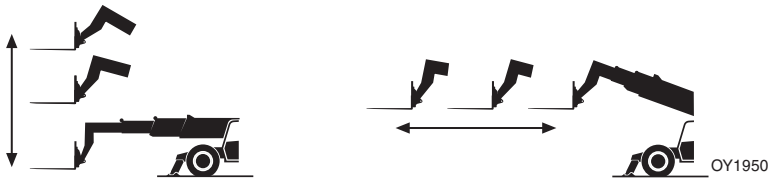


With machine in standard mode, the joystick functions as a conventional telehandler.

- 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 the 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.



### Boom Functions - AccuPlace Mode



With machine in AccuPlace mode, a single motion of the joystick will move the attachment along a vertical or horizontal path.

- Move the joystick back to lift vertically; move the joystick forward to lower vertically; move the joystick right to extend horizontally; move the joystick left to retract horizontally.
- The speed of boom functions depends upon the amount of joystick travel in the corresponding direction. Increasing engine speed will also increase function speed.
- Moving the joystick between quadrants will change the manner in which the boom moves. Boom movement will not be strictly vertical or horizontal.



## 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.

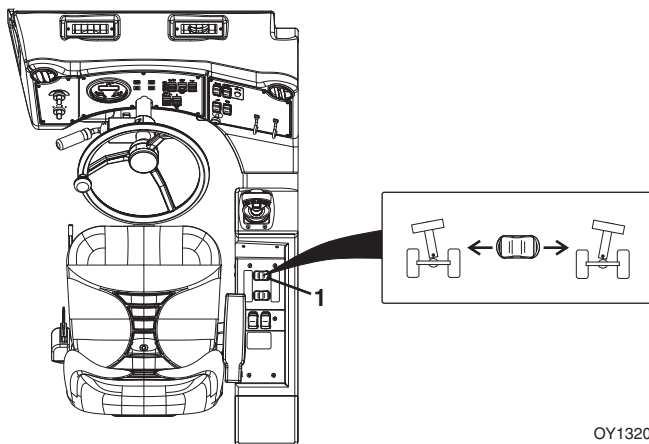
### Attachment Functions

Attachment tilt is controlled by the roller switch (3).

- Push roller switch up to tilt attachment down; push roller switch down to tilt attachment up.

## Section 3 - Controls and Indicators

### Frame Level Joystick



OY1320

The frame level joystick (1) controls the left to right frame level.

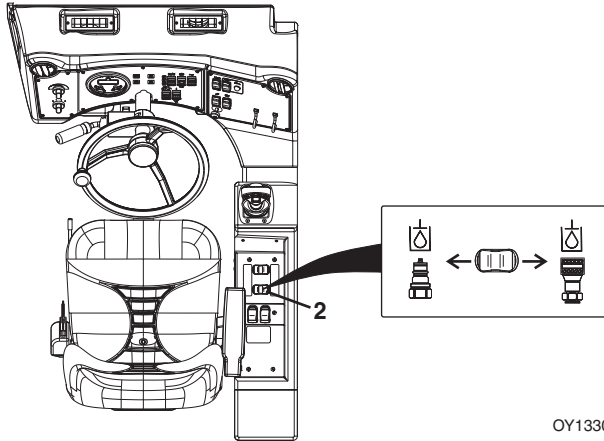
- Move the joystick left to rotate frame left; move the joystick right to rotate frame right.
- A level indicator is located above the front cab window to permit the operator to determine whether the telehandler frame is level.



## WARNING

**TIP OVER HAZARD.** Always move boom as low as possible while allowing for best visibility of right hand mirror before leveling frame. Attempting to level machine with boom raised could cause it to tip over.

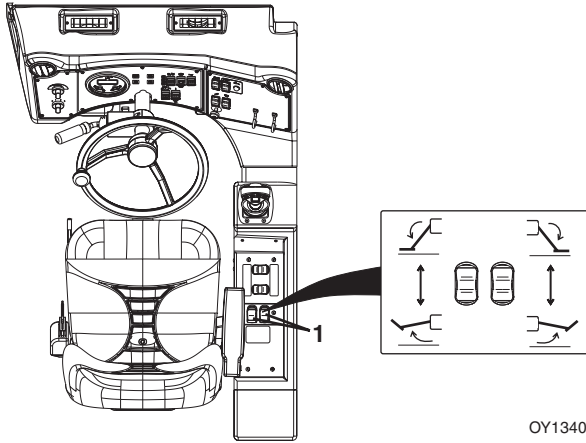
**Auxiliary Hydraulic Joystick**



OY1330

The auxiliary hydraulic joystick (2) controls function of attachments that require hydraulic supply for operation. See Section 5 - Attachments for approved attachments and control instructions.

### Outrigger Joysticks



OY1340

The outrigger joysticks (1) control the outriggers.

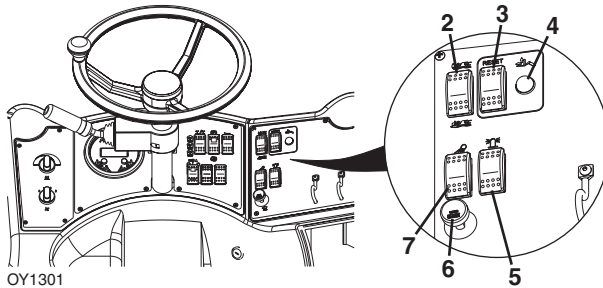
- The left joystick controls the left outrigger and the right joystick controls the right outrigger.
- Push joysticks forward to lower outriggers; push joysticks back to raise outriggers.
- Use outriggers to increase stability and/or load capacity and in leveling the telehandler. Study capacity charts to determine maximum load capacities, with and without outriggers.



## WARNING

**TIP OVER HAZARD.** Outriggers increase stability and load capacity only if they are used properly. Using outriggers on soft surfaces could cause telehandler to tip over. Always ensure surface can support telehandler and load.

### Right Panel



2. **Boom Ride Control Switch**: Depress switch to activate boom ride control. Blue indicator light on switch flashes and slight boom movement may occur as system engages. Indicator then illuminates to indicate boom ride control is active. While activated and traveling, the system acts to cushion boom movement. Depress switch again to deactivate boom ride control.

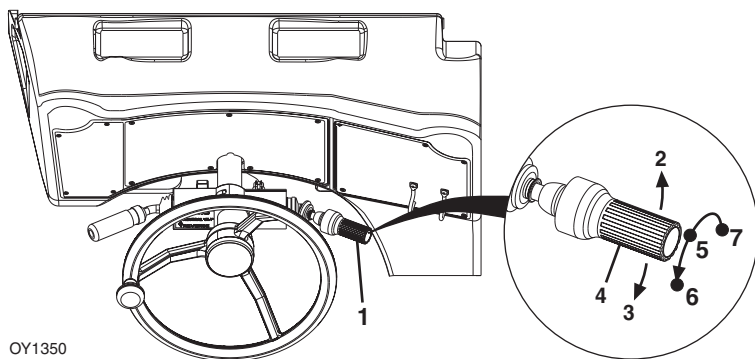
**Note:** If boom is raised above 8 degrees or extended more than 3 ft (0,9 m), Boom Ride Control is disabled.

3. **AccuPlace Fault Reset Indicator**: Flashes orange when fault occurs while in AccuPlace mode. Depress switch to acknowledge fault and continue operation.
4. **AccuPlace Mode Indicator**: Illuminates green when machine is in AccuPlace mode. Flashes to indicate a cylinder has reached mechanical limitations and AccuPlace movement is no longer coordinated. When coordinated movement is possible again, AccuPlace indicator stops flashing.
5. **Beacon Light Switch** (if equipped): On/Off switch.
6. **Windshield Wiper and Washer Switch** (if equipped): Two speed rotary switch. Depress to activate washer. Return to first position to turn off wiper.
7. **Work Light Switch** (if equipped): On/Off switch.

## Section 3 - Controls and Indicators

### Accessory Control Lever (if equipped)

The accessory control lever (1) operates the turn signals, parking lights and headlights.



OY1350

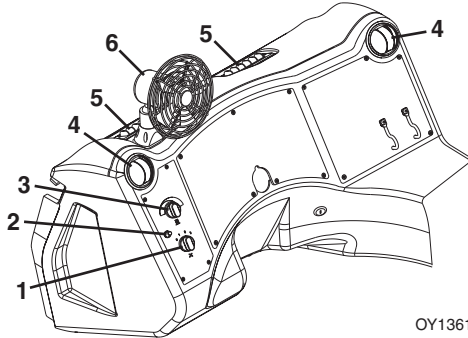
#### Turn Signals

- Push the lever forward (2) to activate the left turn signal.
- Pull the lever back (3) to activate the right turn signal.
- The lever must be manually returned to the center position to deactivate either turn signal. The lever will not cancel automatically after a turn.

#### Parking Lights and Headlights

- Turn the twist grip (4) of the lever counterclockwise to the first position (5) to turn on the parking lights.
- Turn the twist grip to the second position (6) to turn on the headlights.
- Raise/lower the lever to switch between low and high beam.
- Turn the twist grip clockwise to the OFF position (7) to turn all lights off.

**Heater and Air Conditioning Controls (if equipped)**



OY1361

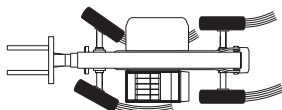
1. Fan Speed Switch: Four position rotary switch.
2. Air Conditioning Switch: On/Off switch.
3. Temperature Control Switch: Adjustable rotary switch.
4. Air Vent: Two individually adjustable air vents.
5. Air Louver: Three individually adjustable air louvers. Third air louver located under operator seat.
6. Defroster Fan: Two speed fan. Press fan switch down for slow speed; press switch up for fast speed. Return switch to middle position to turn off.

## Section 3 - Controls and Indicators

### 3.3 STEER MODES

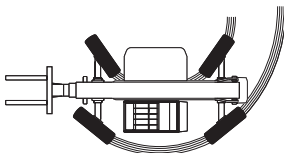
Three steer modes are available for operator use.

2-Wheel Front Steer

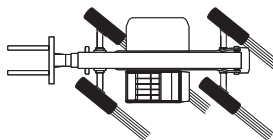


OAL2030

4-Wheel Circle Steer

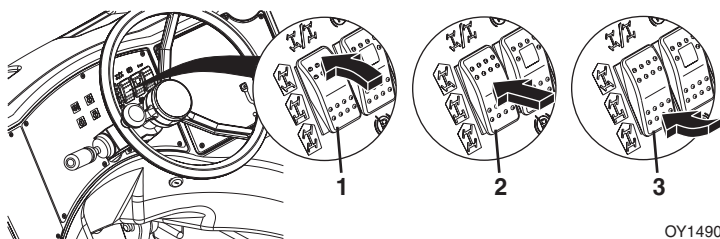


4-Wheel Crab Steer

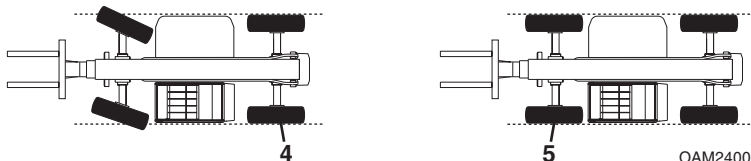


**Note:** 2-Wheel Front Steer mode is required for travel on public roads.

### Steer Mode Change



1. Bring machine to a stop using service brake while either circle steer mode (1) or crab steer mode (3) is selected.



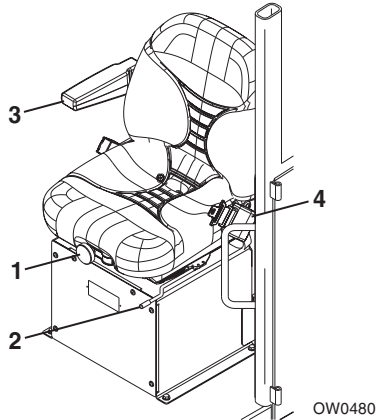
2. Turn the steering wheel until the left rear wheel (4) is aligned with the side of the machine.
3. Select front steer mode (2).
4. Turn the steering wheel until the left front wheel (5) is aligned with the side of the machine.
5. Wheels are now aligned. Select desired steer mode.



### 3.4 OPERATOR SEAT

#### Adjustments

Prior to starting engine adjust seat for position and comfort.



1. Suspension: Use knob to adjust suspension to the appropriate setting. Turn clockwise to increase stiffness. Turn counterclockwise to reduce stiffness.
2. Fore/Aft: Pull up on handle to move seat fore and aft.
3. Arm Rest: Arm rest can be moved up or down for comfort.
4. Seat Belt: Always fasten seat belt during operation. If required, a 3 in (76 mm) seat belt is available.

## ***Section 3 - Controls and Indicators***

---

### **Seat Belt**

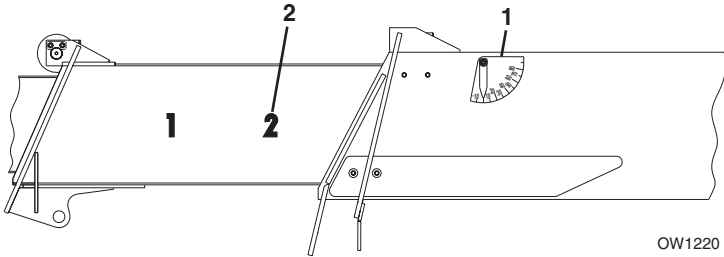
---



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.

### **3.5 BOOM ANGLE AND EXTENSION INDICATORS**



- 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 5-4).
- 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 5-4).

**This Page Intentionally Left Blank**

## SECTION 4 - OPERATION

### 4.1 ENGINE

#### Starting the Engine

This machine can be operated under normal conditions in temperatures of 0°F to 104°F (-20°C to 40°C). 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. Apply park brake.
2. If the temperature is below 32° F (0° C), turn the ignition switch to “position II” and hold for approximately 10 seconds.
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, observe indicators. If indicators remain on for more than five seconds, stop engine and determine cause before restarting engine.
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

**ENGINE EXPLOSION.** Do not use ether for cold weather starting.



## 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, causing an accident

## 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 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. 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).

### 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 5-13.
- 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 cab for the telehandler/attachment combination you are using.

AccuPlace mode (see page 3-11) is recommended for picking and placing a load. The machine control system moves forks/attachment along straight lines allowing, for example, retracting forks from a pallet without operator having to constantly judge position of the forks in relation to the pallet.



### Transporting a 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.
- Boom ride control mode (see page 3-15) is recommended for transport of a load over longer distances. When activated, the boom ride control system acts to cushion boom movement.

### 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. Observe level indicator to determine whether machine must be leveled prior to lifting load. Level machine with frame level joystick (see page 3-12) or outrigger joysticks (see page 3-14).
4. Move boom/attachment to 4 ft (1,2 m) off ground.  
(AUS - Move boom so forks are no more than 11.8 in (300 mm) above ground surface.)

#### 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 11.8 in (300 mm) above ground surface unless telehandler is level.)
- The combination of frame leveling and load could cause the telehandler to tip over.

## **Section 4 - Operation**

---

### **Placing a 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 5-4.
- 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 a 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 cab for the telehandler/attachment combination you are using.
- 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.
- Ensure to always properly tether loads to restrict movement.
- Refer to See *"Use of the Capacity Chart"* on page 5-4. for proper lifting guidelines in addition to the appropriate load chart in the operator cab.

AccuPlace mode (see page 3-11) is recommended for picking and placing a load. The machine control system moves forks/attachment along straight lines allowing, for example, retracting forks from a pallet without operator having to constantly judge position of the forks in relation to the pallet.

## Section 4 - Operation

---

### Transporting a Suspended Load

---



OZ3160



OW0130

- Travel in accordance with the requirements set forth in Section 1 - General Safety Practices and Section 5 - Attachments.
- For additional requirements, refer to the appropriate load chart in the operator cab.

#### Important things to remember:

- Ensure the boom is fully retracted.
- Never raise the load more than 11.8 in (300 mm) above ground surface or the boom more than 45°.
- The combination of frame leveling and load could cause the telehandler to tip over.
- The guide men and operator must remain in constant communication (verbal or hand) and be in visual contact with the operator at all times.
- Never place the guide men between the suspended load and the telehandler.
- Only transport the load at walking speed, 0.9 mph (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. Observe level indicator to determine whether machine must be leveled prior to lifting load. Level machine with frame level joystick (see page 3-12) or outrigger joysticks (see page 3-14).
4. Move boom so load is no more than 11.8 in (300 mm) above ground surface and boom/or boom is raised no more than 45°.

### 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 5-4.
- 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

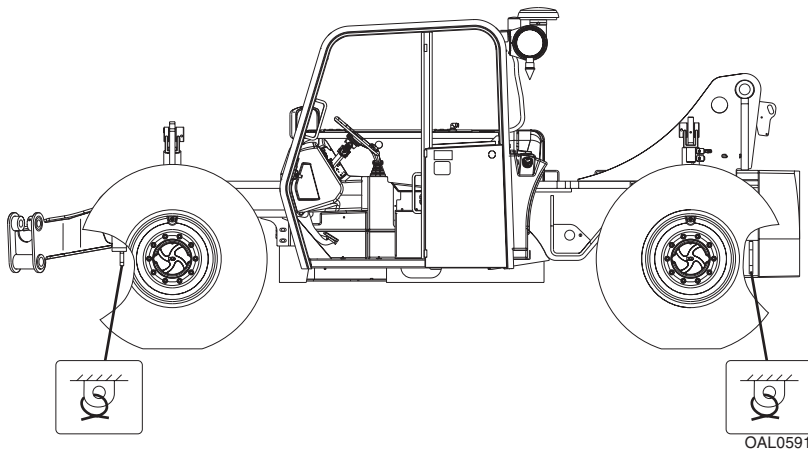
---

- 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 tethers.

## Section 4 - Operation

### 4.4 LOADING AND SECURING FOR TRANSPORT

#### Tiedown



1. Level the telehandler prior to loading.
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, the Department of Transportation and/or any other local, state or 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.

### **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 or weigh machine.
- 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.

**This Page Intentionally Left Blank**



---

## **SECTION 5 - ATTACHMENTS**

---

### **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 type, weight, dimensions and load center must be equal to or less than the data shown on a capacity chart located in the operator cab.
- The model on the capacity chart must match the model telehandler being used.
- Hydraulically powered attachments must only be used on machines equipped with auxiliary hydraulics.
- Hydraulically powered attachments that require auxiliary electrics must only be used on machines equipped with auxiliary hydraulics and electrics.

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 the local distributor for further information.

---

### **5.2 UNAPPROVED ATTACHMENTS**

Do not use unapproved attachments for the following reasons:

- Range and capacity limitations for “will fit,” homemade, altered, or other non-approved attachments cannot be established.
- 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.
- The ability of a non-approved attachment to perform its intended function safely cannot be assured.



## **WARNING**

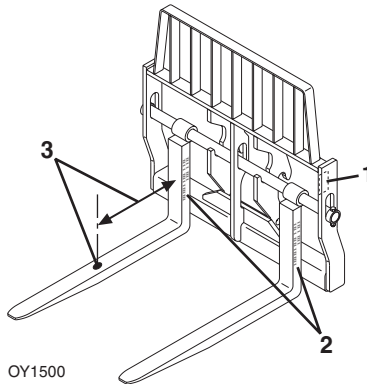
Use only approved attachments. Attachments which have not been approved for use with your telehandler could cause machine damage or an accident.

## Section 5 - Attachments

### 5.3 JLG SUPPLIED ATTACHMENTS

| Attachment                                       | Part Number | Applicable Model     |                      |
|--------------------------------------------------|-------------|----------------------|----------------------|
|                                                  |             | G10-55A<br>AccuPlace | G12-55A<br>AccuPlace |
| Carriage, 50 in (1270 mm)                        | 1170021     | X                    | X                    |
| Carriage, 60 in (1524 mm)                        | 1170024     | X                    | X                    |
| Carriage, 72 in (1829 mm)                        | 1170027     | X                    | X                    |
| Side Tilt Carriage, 50 in (1270 mm)              | 1170054     | X                    | X                    |
| Side Tilt Carriage, 60 in (1524 mm)              | 1001101956  | X                    | X                    |
| Side Tilt Carriage, 72 in (1829 mm)              | 1170057     | X                    | X                    |
| 90° Swing Carriage, 72 in (1829 mm)              | 1001095418  | X                    | X                    |
| 180° Swing Carriage, 72 in (1829 mm)             | 1001104992  | X                    | X                    |
| 8 ft Mast Carriage, 50 in (1270 mm)              | 1001108668  | X                    | X                    |
| 8 ft Mast Carriage w/ Side Tilt, 50 in (1270 mm) | 1001108669  | X                    | X                    |
| Fork, Pallet 2.36x4x48 in (60x100x1220 mm)       | 2340045     | X                    | X                    |
| Fork, Pallet 2.36x5x48 in (60x127x1220 mm)       | 2340038     | X                    | X                    |
| Fork, Dual Taper 1.75x7x60 in (44x178x1524 mm)   | 2340046     | X                    | X                    |
| Fork, Dual Taper 2.36x6x60 in (60x152x1524 mm)   | 2340039     | X                    | X                    |
| Fork, Dual Taper 2x6x72 in (50x152x1830mm)       | 1001092391  | X                    | X                    |
| Fork, Block 2x2x48 in (50x50x1220 mm)            | 2340037     | X                    | X                    |
| Bucket, 72 in - 1.0 yd <sup>3</sup>              | 1001100822  | X                    | X                    |
| Bucket, 96 in - 1.5 yd <sup>3</sup>              | 1001100823  | X                    | X                    |
| Bucket, 102 in - 2.0 yd <sup>3</sup>             | 1001100824  | X                    | X                    |
| Grapple Bucket, 96 in - 1.75 yd <sup>3</sup>     | 0930020     | X                    | X                    |
| Hook, Fork Mounted                               | 91565094    | X                    | X                    |
| Truss Boom, 12 ft (3658 mm)                      | 1001099902  | X                    | X                    |
| Truss Boom w/ Winch, 12 ft (3658 mm)             | 1001099351  | X                    | X                    |
| Truss Boom, 15 ft (4572 mm)                      | 1001099901  | X                    | X                    |
| Platform, Fork Mounted (ASME)                    | 1001092280  | X                    | X                    |
|                                                  | 1001103637  | X                    | X                    |
| Platform, Fork Mounted (ASME - French)           | 1001097072  | X                    | X                    |
|                                                  | 1001103736  | X                    | X                    |
| Platform, Fork Mounted (ISO)                     | 1001096306  | X                    | X                    |
|                                                  | 1001103730  | X                    | X                    |

### 5.4 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 approved capacity chart installed on the telehandler.

## Section 5 - Attachments

---

### 5.5 USE OF THE CAPACITY CHART

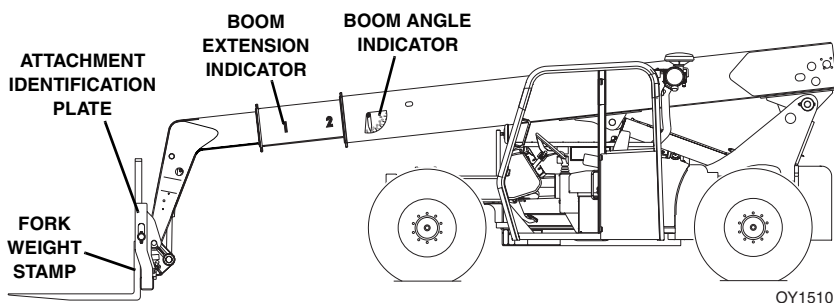
To properly use the capacity chart (see page 5-6), the operator must first determine and/or have the following:

1. An approved attachment. See *"Approved Attachments"* on page 5-1.
2. The proper Capacity Chart(s).
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 to 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.

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

---

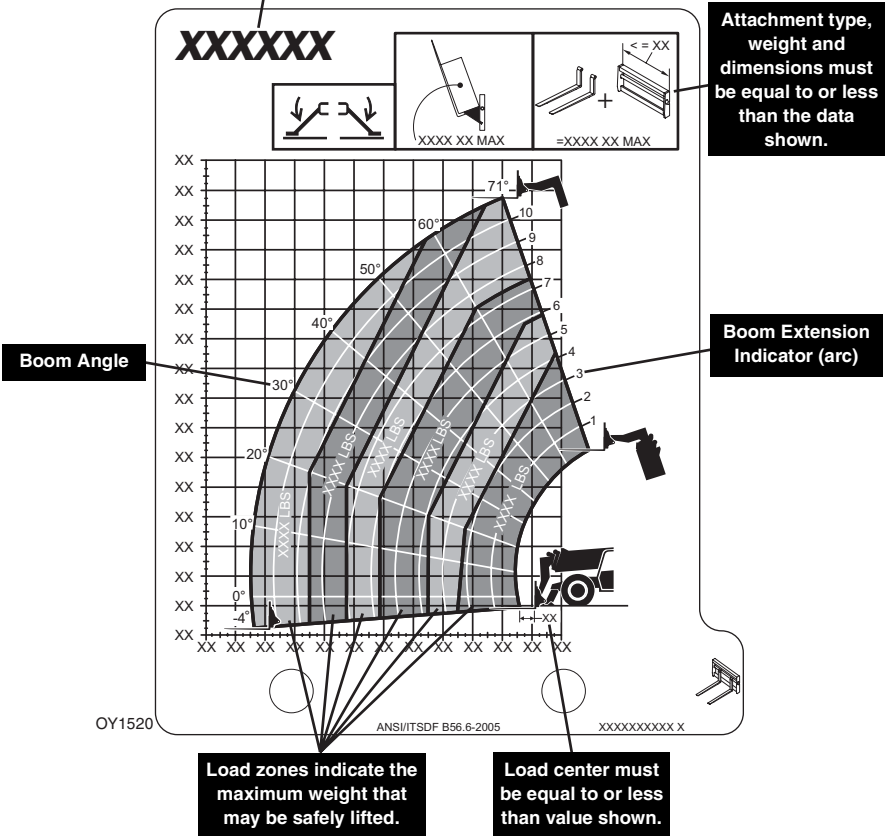


**This Page Intentionally Left Blank**

Section 5 - Attachments

Sample Capacity Chart

This Capacity Chart may be used with this model ONLY.  
The telehandler model is indicated on the boom or chassis.  
Model XXXX is used for demonstration purposes only.



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



# WARNING

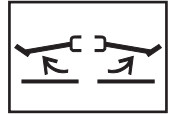
**TIP OVER HAZARD.** All loads shown on rated capacity chart are based on machine being on firm ground with frame level (see page 4-5); the forks being positioned evenly on carriage; the load being centered on forks; proper size tires being properly inflated; and the telehandler being in good operating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

## Section 5 - Attachments

**Note:** Use of AccuPlace mode does not guarantee movement is within a specific capacity chart zone. Always maintain boom angle and reach within allowable load zone.

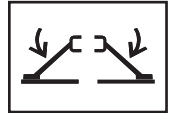
To identify the proper load chart on telehandlers equipped with outriggers, refer to the following icons which may be located on the load chart.

- Use when lifting a load with outriggers up.



OAL1090

- Use when lifting a load with outriggers down.



OAL1100

Section 5 - Attachments

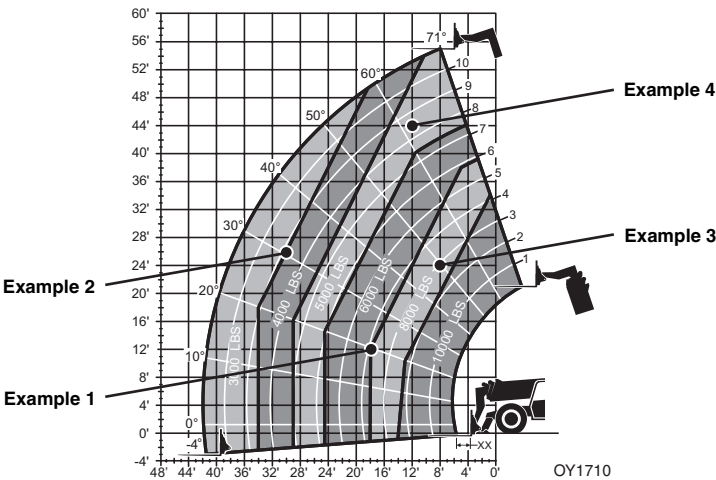
Example

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

- The attachment style, weight, dimensions and load center match the attachment data on the capacity chart.
- The capacity chart is clearly marked for model xxxxx 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 | 6000 lb (2722 kg) | 18 ft (5,5 m) | 12 ft (3,7 m)  | Yes        |
| 2 | 4000 lb (1814 kg) | 30 ft (9,1 m) | 26 ft (7,9 m)  | NO         |
| 3 | 7500 lb (3402 kg) | 8 ft (2,4 m)  | 24 ft (7,3 m)  | Yes        |
| 4 | 5750 lb (2608 kg) | 12 ft (3,7 m) | 44 ft (13,4 m) | NO         |

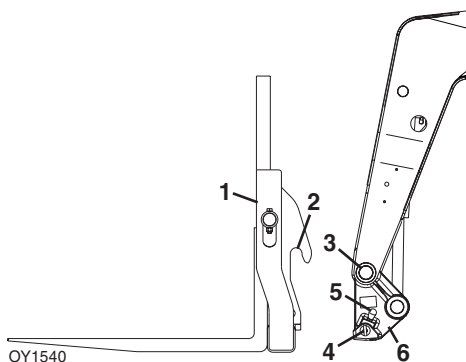


**Note:** This is a sample capacity chart **only!** **DO NOT** use this chart, use the one located in your operator cab.



**This Page Intentionally Left Blank**

### 5.6 ATTACHMENT INSTALLATION



1. Attachment
2. Attachment Pin Recess
3. Attachment Pin
4. Lock Pin
5. Retaining Pin
6. Quick Switch (attachment tilt control in cab, see page 3-12)



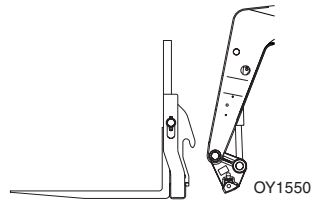
## WARNING

**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.

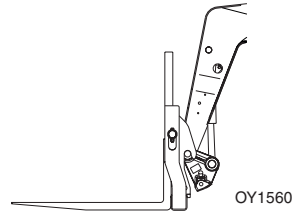
## Section 5 - Attachments

This installation procedure is designed for one-person operation. Prior to exiting cab, perform “*Shut-Down Procedure*” on page 4-3.

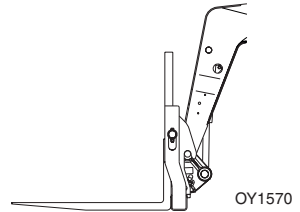
1. Tilt quick switch back to provide clearance.  
Check to be sure lock pin is removed.



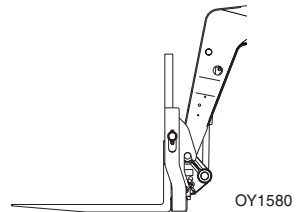
2. Align attachment pin with recess in attachment.  
Raise boom slightly to engage attachment pin in recess.



3. Tilt quick switch forward to engage attachment.

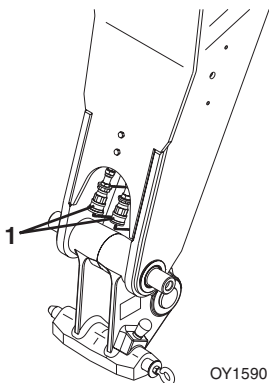


4. Lift retaining pin and insert lock pin completely through quick switch. Release retaining pin and ensure lock pin is secured.



5. If equipped, connect auxiliary hydraulic hoses. See “*Hydraulic Operated Attachment*” on page 5-12.
6. If equipped, connect auxiliary electric harness.

### 5.7 HYDRAULIC OPERATED ATTACHMENT



1. Install attachment (see page 5-10).
2. Perform *"Shut-Down Procedure"* on page 4-3.
3. Connect attachment hoses to both auxiliary fittings (1).

### 5.8 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 5-10.
2. Elevate attachment to approximately 5 ft (1,5 m) 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).

## Section 5 - Attachments

---

### 5.9 ATTACHMENT OPERATION

- Capacities and range limits for the telehandler change depending on the attachment in use.
- Separate attachment instructions must be kept in manual holder in cab with this Operation and Safety Manual. An additional copy must be kept with the attachment if it is equipped with a manual holder.

**Note:** Operations described within this section reference the standard joystick mode. Refer to page 3-11 if using AccuPlace mode.

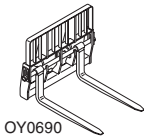
## NOTICE

**EQUIPMENT DAMAGE.** Some attachments may contact the front tires or machine structure when the boom is retracted and the attachment is rotated. Improper use of attachment may result in attachment or machine structural damage.

## NOTICE

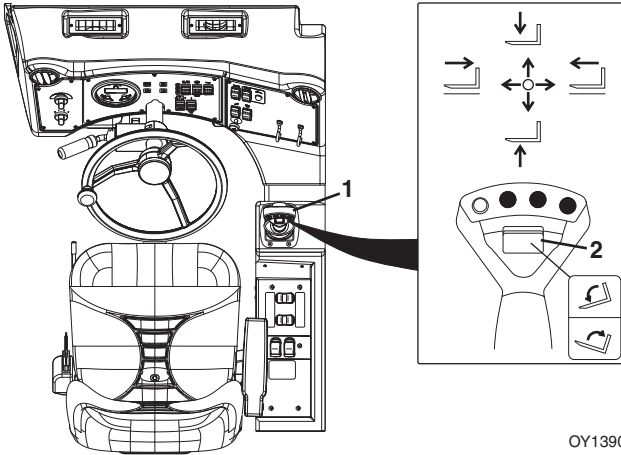
**EQUIPMENT DAMAGE.** Avoid contact with any structure or object when lifting a load. Maintain clearance around boom structure and load. Failure to maintain clearance may result in attachment or machine structural damage.

### Carriage w/Forks



Use Carriage Attachment Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-3.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls carriage tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### Installation Procedure:

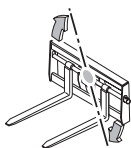
- Refer to “Attachment Installation” on page 5-10.

#### Equipment Damage Precautions:

- Do not use forks as a lever to pry material. Excessive prying forces could damage forks or machine structure.
- Do not attempt to lift loads that are attached or connected to another object.

## Section 5 - Attachments

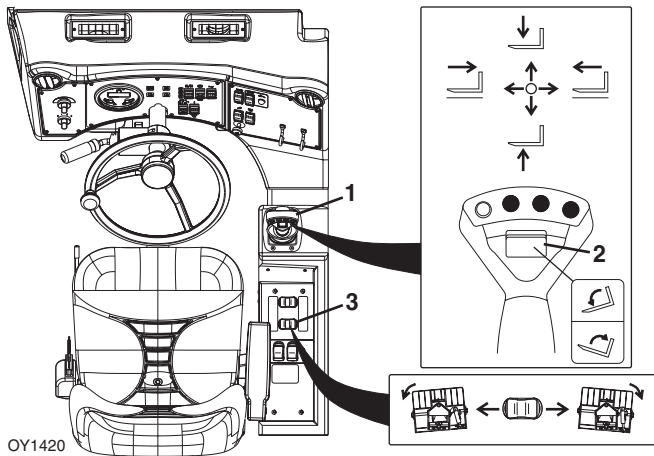
### Side Tilt Carriage



OAL1550

Use Side Tilt Carriage Capacity Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-3.



OY1420

The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls carriage tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### To Side Tilt:

The auxiliary hydraulic joystick (3) controls carriage side tilt.

- Move joystick right to side tilt right.
- Move joystick left to side tilt left.

#### Installation Procedure:

- Refer to “Attachment Installation” on page 5-10.





# WARNING

**CRUSH HAZARD.** Do not use side tilt to push or pull objects or load. Failure to comply could cause object or load to fall resulting in death or serious injury.

**Operation:**

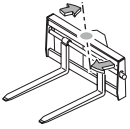
- Approach load with forks centered on load and stop telehandler.
- Level telehandler before side tilting carriage to engage load.
- Side tilt carriage to left or right to align forks with load and engage load.
- Raise load slightly then level carriage side to side.
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.

**Equipment Damage Precautions:**

- Do not use forks as a lever to pry material. Excessive prying forces could damage forks or machine structure.
- Do not attempt to lift loads that are attached or connected to another object.

## Section 5 - Attachments

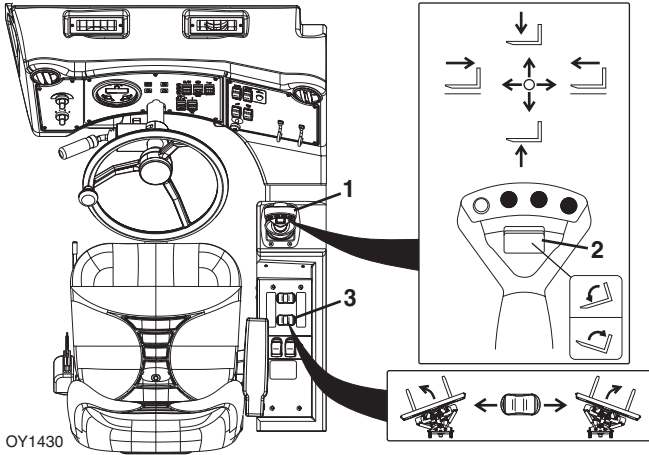
### Swing Carriage



OU2150

Use Swing Carriage Capacity Chart

To determine maximum capacity, refer to *“Telehandler/ Attachment/Fork Capacity”* on page 5-3.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls carriage tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### To Swing:

The auxiliary hydraulic joystick (3) controls carriage swing.

- Move joystick right to swing right.
- Move joystick left to swing left.

#### Installation Procedure:

- Refer to *“Attachment Installation”* on page 5-10.



## **WARNING**

**CRUSH HAZARD.** Always level telehandler frame and forks (horizontally) before swinging load to side. Swinging unlevel forks could cause load to slide off forks.



## **WARNING**

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



## **WARNING**

**CRUSH HAZARD.** Use retaining pin (if equipped) for locking swing frame to fixed frame when carrying loads greater than 5000 lb. Failure to comply could cause object or load to fall.

### **Operation:**

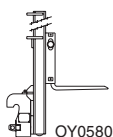
- To drive with a load, keep forks pointed forward and travel in accordance with requirements set forth in Section 1 - General Safety Practices.

### **Equipment Damage Precautions:**

- Do not use forks as a lever to pry material. Excessive prying forces could damage forks or machine structure.
- Do not attempt to lift loads that are attached or connected to another object.

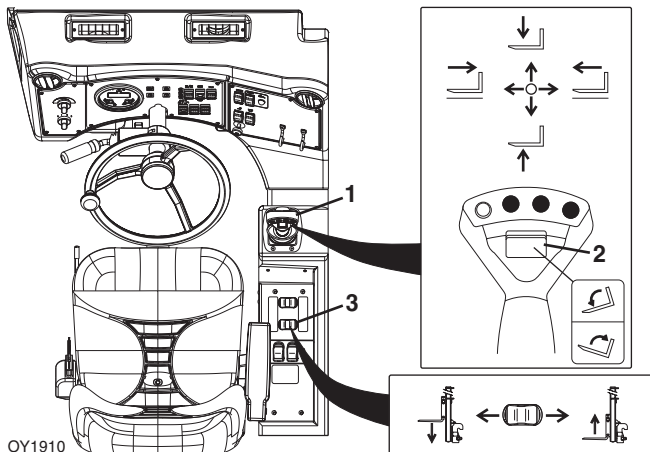
## Section 5 - Attachments

### Mast Carriage



Use Mast Carriage Capacity Chart

To determine maximum capacity, refer to *"Telehandler/ Attachment/Fork Capacity"* on page 5-3.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls mast carriage tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### To Raise/Lower Mast:

The auxiliary hydraulic joystick (3) controls the mast raise/lower function.

- Move joystick right to raise.
- Move joystick left to lower.

#### Installation Procedure:

- Refer to *"Attachment Installation"* on page 5-10.



# WARNING

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

**Operation:**

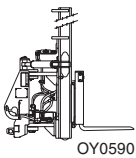
- Always lower forks fully in mast before engaging load.
- To drive with a load, lower forks fully in mast and travel in accordance with requirements set forth in Section 1 - General Safety Practices.
- Use signal person to assist in positioning load if necessary.

**Equipment Damage Precautions:**

- Do not use forks as a lever to pry material. Excessive prying forces could damage forks or machine structure.
- Do not attempt to lift loads that are attached or connected to another object.

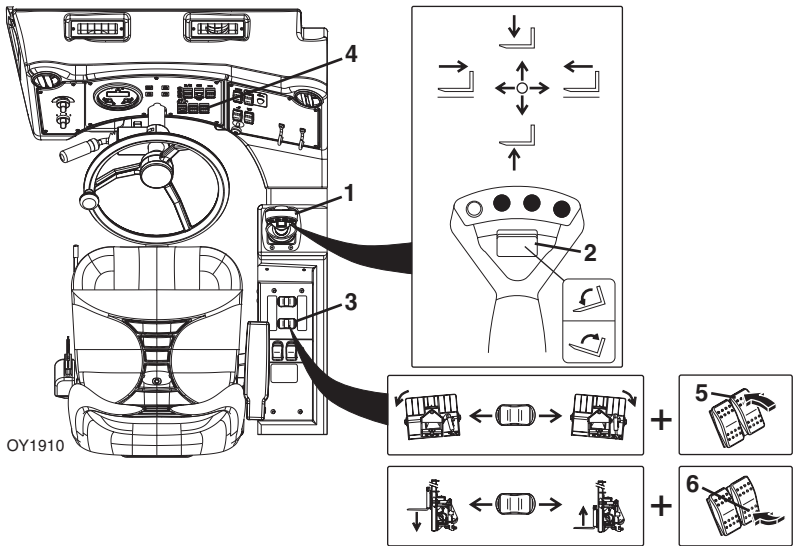
Section 5 - Attachments

Mast Carriage w/Side Tilt



Use Mast Carriage Capacity Chart

To determine maximum capacity, refer to “Telehandler/ Attachment/Fork Capacity” on page 5-3.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls mast carriage tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

To Side Tilt:

Press Side Tilt Switch (5) located on dash panel (4) to activate Side Tilt function.

The auxiliary hydraulic joystick (3) controls the carriage side tilt.

- Move joystick left to (side) tilt left.
- Move joystick right to (side) tilt right.

### To Raise/Lower Mast:

Press Forks Raise/Lower Switch (6) located on dash panel to activate Forks Raise/Lower function.

The auxiliary hydraulic joystick controls the mast raise/lower function.

- Move joystick left to lower.
- Move joystick right to raise.

### Installation Procedure:

- Refer to “Attachment Installation” on page 5-10.



## WARNING

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



## WARNING

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

### Operation:

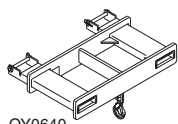
- Always lower forks fully in mast before engaging load.
- To drive with a load, lower forks fully in mast and travel in accordance with the requirements set forth in Section 1 - General Safety Practices.
- Use a signal person to assist in positioning load if necessary.

### Equipment Damage Precautions:

- Do not use forks as a lever to pry material. Excessive prying forces could damage forks or machine structure.
- Do not attempt to lift loads that are attached or connected to another object.

## Section 5 - Attachments

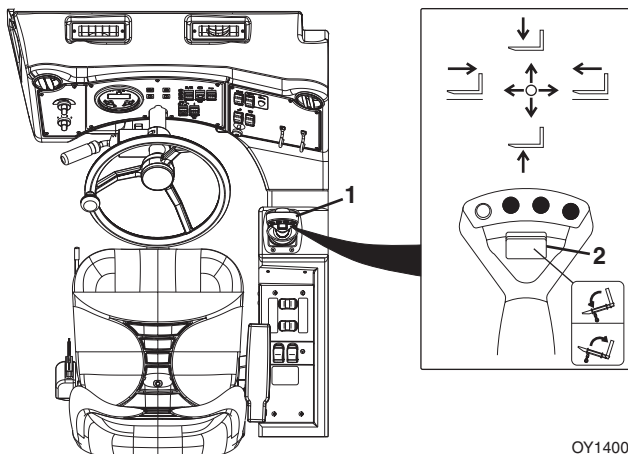
### Fork Mounted Hook



Use Appropriate Carriage Attachment Capacity Chart

To determine maximum capacity, refer to *"Telehandler/ Attachment/Fork Capacity"* on page 5-3.

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



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls fork mounted hook tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### Installation Procedure:

- Ensure carriage is properly installed. Refer to *"Attachment Installation"* on page 5-10.
- Secure to the forks by sliding hook onto the parent forks and install retaining pins behind the heel of each fork.

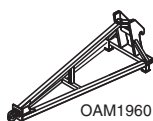


### **Operation:**

- Pallet or lumber forks of an appropriate load rating must be used. Do not use with cubing or block forks.
- Weight of fork mounted hook and rigging must be included as part of total load being lifted.
- Do not use with mast carriage attachment.
- Do not use fork mounted hook with attachments capable of rotating (i.e. side tilt and swing carriages) without disabling the rotation feature(s).

## Section 5 - Attachments

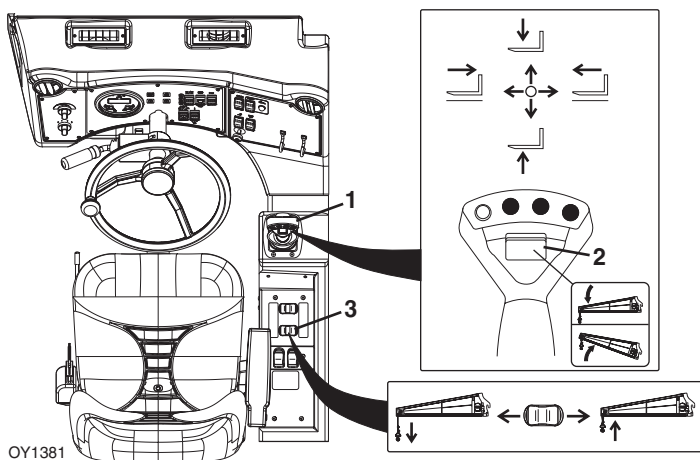
### Truss Boom



Use Appropriate Truss Boom Load Chart

To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-3.

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



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls truss boom tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### **Winch Control (if equipped):**

The auxiliary hydraulic joystick (3) controls the truss boom mounted winch.

- Move joystick right to raise cable.
- Move joystick left to lower cable.

#### **Installation Procedure:**

- Refer to “Attachment Installation” on page 5-10.



# WARNING

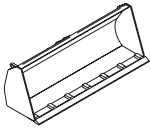
**CRUSH HAZARD.** Maintain a minimum of three wraps of wire rope on the cable drum at all times. Failure to comply could cause object or load to fall.

**Operation:**

- Weight of rigging must be included as part of total load being lifted.

## Section 5 - Attachments

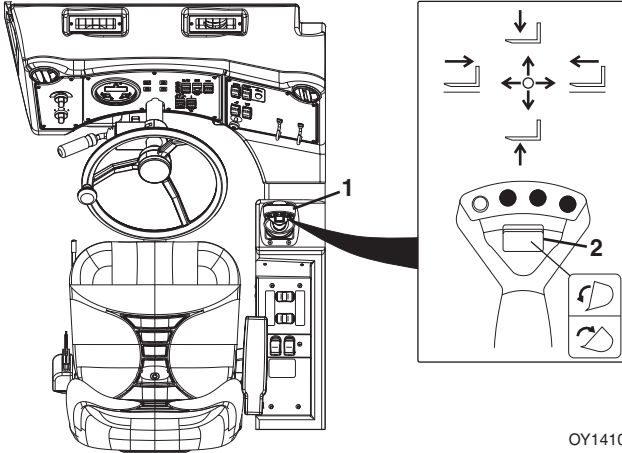
### Bucket



OZ0730

Use Appropriate Bucket Capacity Chart

To determine maximum capacity, refer to *"Telehandler/ Attachment/Fork Capacity"* on page 5-3.



OY1410

The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls bucket tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### Installation Procedure:

- Refer to *"Attachment Installation"* on page 5-10.

### **Operation:**

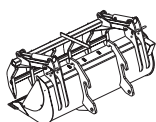
- Raise or lower boom to appropriate height for loading material from stockpile.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load and back away from pile.
- Travel in accordance with requirements set forth in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

### **Equipment Damage Precautions:**

- Except for lifting or dumping a load, the boom must be fully retracted for all bucket operations.
- 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 or machine structure.
- Do not attempt to load material which is hard or frozen. This could cause severe damage to quick switch or machine structure.
- Do not use bucket for "back dragging." This could cause severe damage to quick switch and retraction cables/chains.

## Section 5 - Attachments

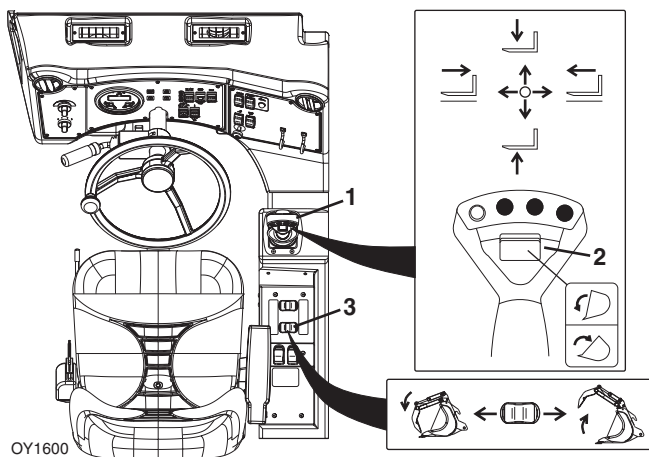
### Grapple Bucket



OZ1450

Use Grapple Bucket Capacity Chart

To determine maximum capacity, refer to *"Telehandler/Attachment/Fork Capacity"* on page 5-3.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls bucket tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### To open/close grapple:

The auxiliary hydraulic joystick (3) controls the open/close movement of the grapple.

- Move joystick right to open grapple.
- Move joystick left to close grapple.

#### Installation Procedure:

- Refer to *"Attachment Installation"* on page 5-10.

### **Operation:**

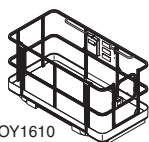
- Raise or lower boom to appropriate height and open grapple for loading material from stockpile.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load, close grapple, and back away from pile.
- Travel in accordance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

### **Equipment Damage Precautions:**

- Except for lifting or dumping a load, the boom must be fully retracted for all bucket operations.
- 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 or machine structure.
- Do not attempt to load material which is hard or frozen. This could cause severe damage to quick switch or machine structure.
- Do not use bucket for "back dragging." This could cause severe damage to quick switch and retraction cables/chains.

## Section 5 - Attachments

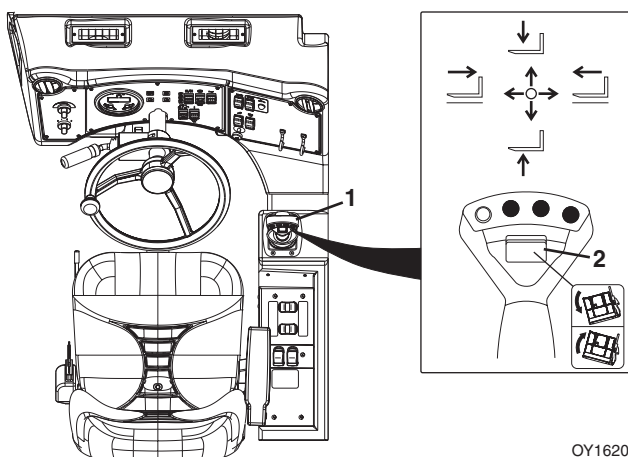
### Personnel Work Platform - Fork Mounted



Use Appropriate Carriage Attachment Capacity Chart

To determine maximum capacity, refer to *"Telehandler/ Attachment/Fork Capacity"* on page 5-3.

The operator and personnel in platform must read and understand the separate personnel work platform manual prior to installing and using a platform.



The joystick (1) controls lift/lower and extend/retract movement of the boom.

The attachment tilt roller switch (2) controls platform tilt.

- Push roller switch down to tilt up.
- Push roller switch up to tilt down.

#### Installation Procedure:

- Ensure carriage is properly installed. Refer to *"Attachment Installation"* on page 5-10.
- Check to ensure the personnel platform is securely attached to the forks and/or carriage.



### Preparation and Setup:

1. Ensure the telehandler is on a firm surface and is level.
2. Engage the park brake. Blocking the wheels is also recommended.
3. Level the platform, both side to side (frame level) and front to back (attachment tilt).
4. Keep area under platform free from personnel.
5. When personnel are on platform, the operator must remain seated in cab with personnel in direct line of sight.
6. **DO NOT** lift or carry persons in a bucket or on forks.



## WARNING

**FALL HAZARD.** Never tilt the platform forward, rearward, or level the machine when the platform is occupied.

**This Page Intentionally Left Blank**

## **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.
- Machine mounted retrieval devices provide a suitable means to attach a tow rope, chain or tow bar only in the event the telehandler becomes stuck or disabled. Retrieval devices are not intended for trailer towing applications.
- 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 a local Authorized Distributor for specific instructions if neither of these methods are applicable.**

## Section 6 - Emergency Procedures

---

### 6.2 EMERGENCY LOWERING OF BOOM

In the event of loss of engine power or hydraulic pump failure with an elevated load, refer to the emergency lowering procedure provided in the machine Service Manual.

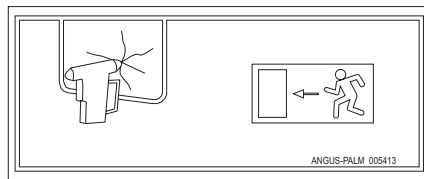
In the event of total loss of power with an elevated load, the situation must be properly evaluated and dealt with on an individual basis. **Contact a local Authorized Distributor for specific instructions.**

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

---

### 6.3 EMERGENCY EXIT FROM ENCLOSED CAB



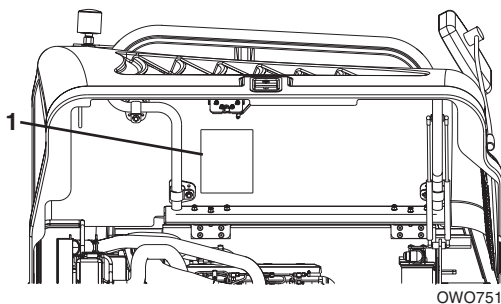
OWO740

- In an emergency, an escape hammer located directly below the rear window in an enclosed cab can be used to exit the telehandler.

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

### **7.1 INTRODUCTION**

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



**VIEW OF ENGINE COMPARTMENT**

The Lubrication and Maintenance Decal (1) contains 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**

- 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, with the exception of the transmission fluid. For ease of filling hydraulic reservoir, use a funnel with a hose or flexible tube for best results.

**Note:** Be certain to check boom chain and adjustment every 250 hours and adjust as required. Chain damage can occur if chain is not adjusted properly.



## WARNING

**CUT/CRUSH/BURN HAZARD.** Do not perform service or maintenance on the machine with the engine running, with the exception of the transmission level and hydraulic return filter indicator checks.

## 7.3 SERVICE AND MAINTENANCE SCHEDULE

### 10 & 1st 100 Hour Maintenance Schedule



**EVERY**

**10** 



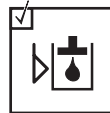
Check Fuel  
Level



Air Filter  
Restriction  
Indicator



Check Engine  
Oil Level



Check Hydraulic  
Oil Level



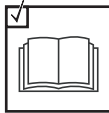
Check Tire  
Condition &  
Pressure



Check  
Transmission  
Oil Level



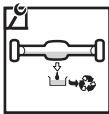
Check Hydraulic  
Return Filter  
Indicator



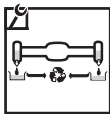
Additional  
Checks -  
Section 8

**1<sup>st</sup>**

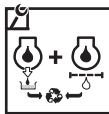
**100** 



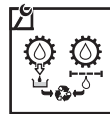
Change  
Axle Oil



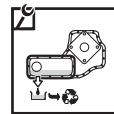
Change Wheel  
End Oil



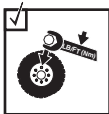
Change Engine  
Oil & Filter



Change  
Transmission  
Oil & Filter



Change  
Transfer Case  
Oil



Check Wheel  
Lug Nut  
Torque



Check Boom  
Chain & Tension

OW0763

Section 7 - Lubrication and Maintenance

50, 250 & 500 Hour Maintenance Schedule



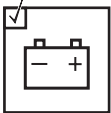
EVERY  
50 



Drain Fuel/  
Water  
Separator



Check Engine  
Coolant Level



Check  
Battery



Check Washer  
Fluid Level  
(if equipped)

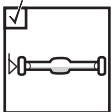


Lubrication  
Schedule

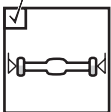
EVERY  
250 



Change Engine  
Oil and  
Filter\*



Check Axle  
Oil Level



Check Wheel  
End Oil Levels



Air Filter  
Vacuator  
Valve



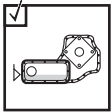
Check  
Fan Belt



Check Boom  
Chain & Tension



Check Boom  
Wear Pads



Check Transfer  
Case Oil Level



Check  
Rear Axle  
Stabilization



Lubrication  
Schedule

EVERY  
500 



Change Fuel  
Filters



Check Wheel  
Lug Nut  
Torque

OY0311

**Note:** Engine oil and filter service interval can be extended, see page 7-12 for details.



## Section 7 - Lubrication and Maintenance

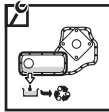
### 1000 & 1500 Hour Maintenance Schedule



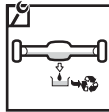
**EVERY**  
**1000** ⌚



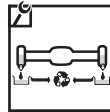
Change  
Transmission  
Oil & Filter



Change  
Transfer Case  
Oil



Change  
Axle Oil



Change Wheel  
End Oil

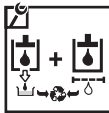


Check  
Air Intake  
System

**EVERY**  
**1500** ⌚



Change  
Engine Coolant



Change  
Hydraulic  
Fluid & Filters

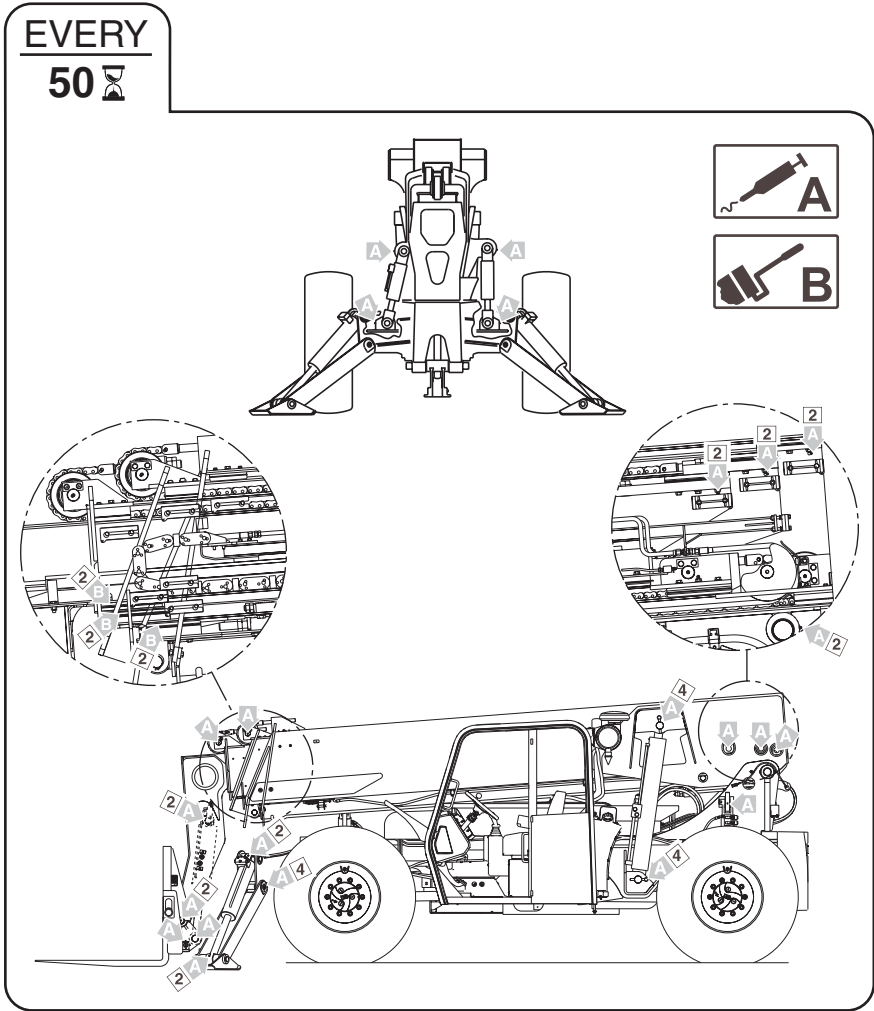


Change  
Hydraulic Tank  
Breather

OAL2290

7.4 LUBRICATION SCHEDULES

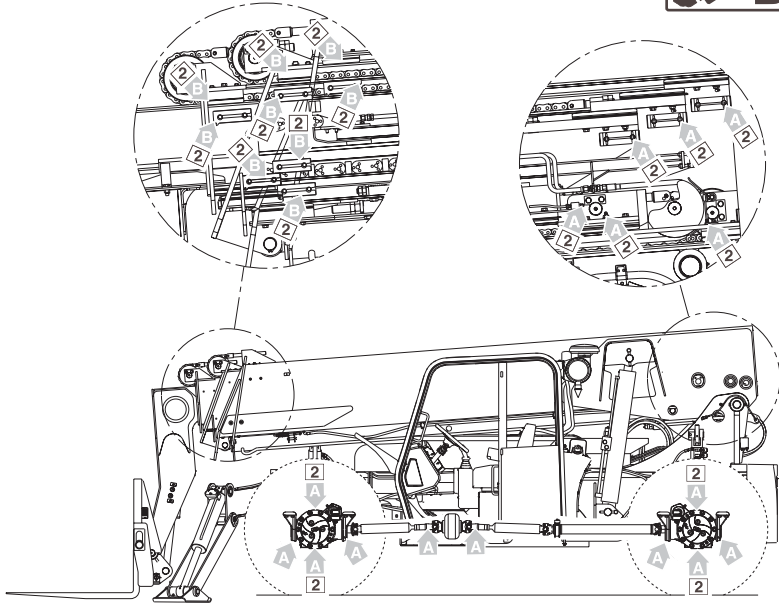
50 Hour Lubrication Schedule



OY1630

250 Hour Lubrication Schedule

EVERY  
250 



OW1210

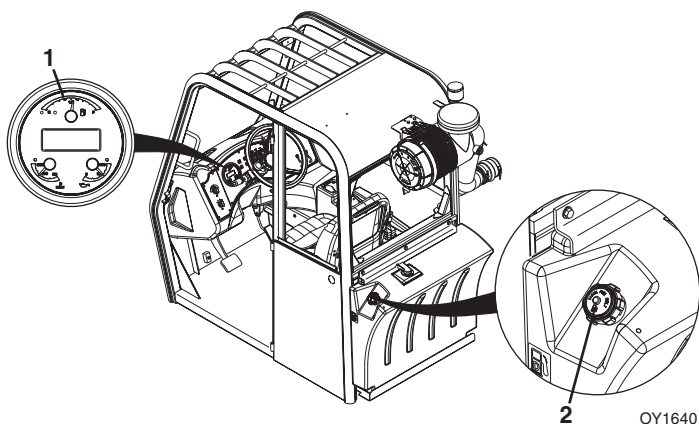
### 7.5 OPERATOR MAINTENANCE INSTRUCTIONS

#### Fuel System

##### A. Fuel Level Check

10   
OW0970

  
OW0990



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.
4. Add diesel fuel as needed.
5. Replace fuel tank cap.

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

## NOTICE

**EQUIPMENT DAMAGE.** Do not allow machine to run out of fuel during operation. See Engine Operation & Maintenance Manual for details prior to servicing.

### B. Drain Fuel/Water Separator

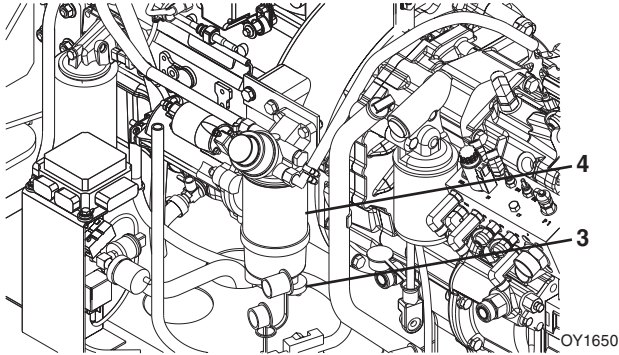
50



OW0980



OW1000



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

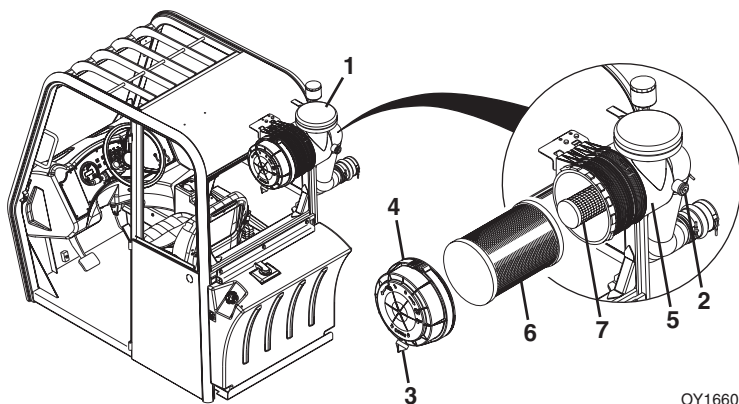
## Section 7 - Lubrication and Maintenance

### Air Intake System

#### A. Air Filter Restriction Indicator Check

10   
OW0970

  
OW1010



1. Perform “Shut-Down Procedure” on page 4-3.
2. Locate air cleaner (1) and check restriction indicator (2). If red band is visible, filter(s) must be replaced.
3. Remove dust from vacuator valve (3) by squeezing bottom of valve to allow loose particles to fall out.

**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.

### **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.

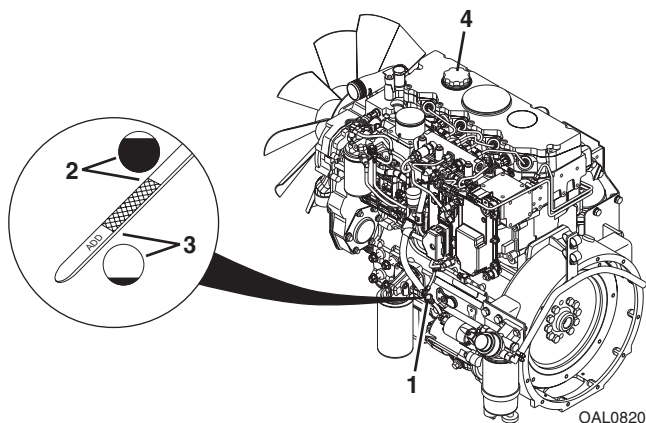
**Note:** *An inner safety element should never be washed or reused. Always install a new element.*

### Engine Oil

#### A. Engine Oil Level Check

10   
OW0970

  
OW1020



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. Replace dipstick.
5. 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.
6. Replace oil fill cap.
7. Close and secure the engine cover.

**Note:** The standard service interval for engine oil and filter is 250 hours maximum. If an extended service interval is desired, see your engine manual for specific guidelines for optimizing oil change intervals.

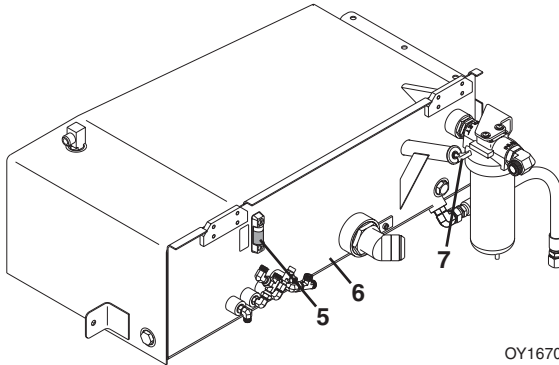


### Hydraulic Oil

#### A. Hydraulic Oil Level Check

10   
OW0970

  
OW1030



OY1670

1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Check level of hydraulic oil at the sight gauge (5) on the hydraulic tank (6). The oil level should be visible in the gauge window.
4. 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.
5. Replace hydraulic oil fill cap.
6. Close and secure the engine cover.

Tires

A. Tire Air Pressure Check



- 1. Perform “Shut-Down Procedure” on page 4-3.
- 2. Remove valve stem cap.
- 3. Check tire pressure.
- 4. Add air if required.
  - 14.00 x 24, G-2/L-2 Bias-Ply Traction - 12 Ply (G10-55A AccuPlace only) ..... 65 psi (4.5 bar)
  - 14.00 x 24, G-3/L-3 Bias-Ply Rock - 12 Ply (G10-55A AccuPlace only) ..... 65 psi (4.5 bar)
  - 14.00 x 24, G-2/L-2 Radial - 1 Star (G10-55A AccuPlace only) ..... 70 psi (4.8 bar)
  - 17.50 x 25, G-2/L-2 Bias-Ply Traction - 12 Ply ..... 65 psi (4.5 bar)
  - 17.50 x 25, G-3/L-3 Bias Ply Rock - 12 Ply ..... 65 psi (4.5 bar)
  - 17.50 x 25, G-2/L-2 Radial - 1 Star ..... 70 psi (4.8 bar)
- 5. Replace valve stem cap.

B. Tire Damage

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

For polyurethane foam filled tires, when any of the following are discovered, measures must be taken to remove the product from service immediately. Arrangements must be made for replacement of the tire or tire assembly.

- a smooth even cut through the cord piles which exceeds 3 in (7,5 cm) in total length.
- any tears or rips (ragged edges) in the cord plies which exceeds 1 in (2,5 cm) in any direction
- any punctures which exceed 1 in (2,5 cm) in diameter.

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

### **C. Tire Wheel Replacement**

It is recommended that 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 an approved replacement tire, the replacement tires must 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.

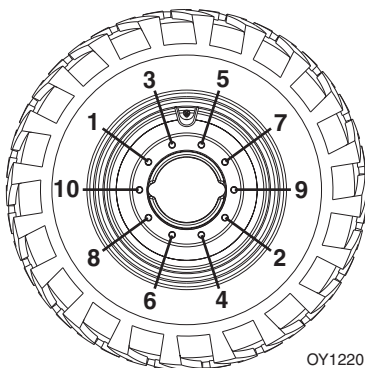
## Section 7 - Lubrication and Maintenance

### E. Wheel Installation

Torque lug nuts after first 100 hours and after each wheel installation.

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

1. Start all nuts by hand to prevent cross threading. DO NOT use a lubricant on threads or nuts.
2. Tighten lug nuts in an alternating pattern as indicated in figure. Torque to 350-400 lb-ft (475-542 Nm).



## WARNING

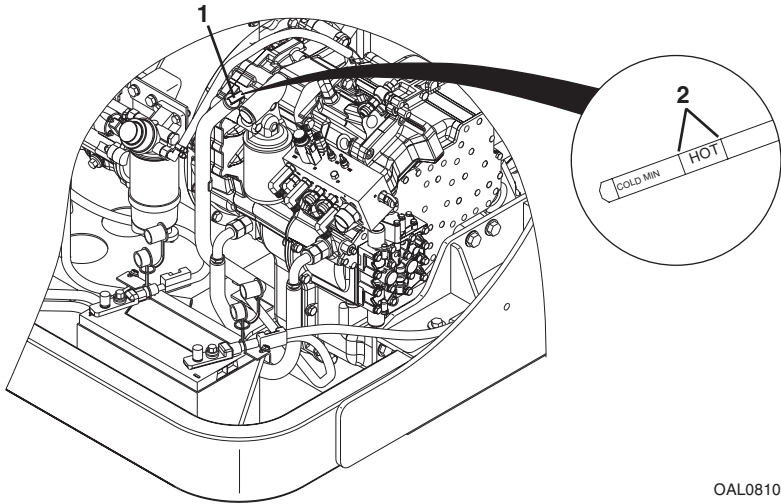
**TIP OVER HAZARD.** Lug nuts must be installed and maintained at the proper torque to prevent loose wheels, broken studs and possible separation of wheel from the axle.

### Transmission Oil

#### A. Transmission Oil Level Check

**10**   
OW0970

  
OW1050



OAL0810

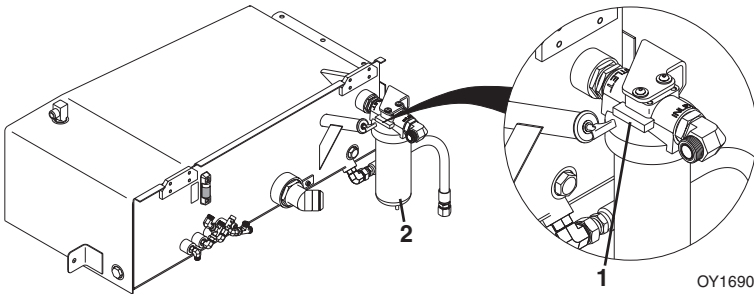
1. Apply park brake, shift transmission to "Neutral" and lower forks or attachment to the ground.
2. Check transmission oil level with engine at idle and oil at normal operating temperature.
3. Open the engine cover.
4. Remove the transmission dipstick (1) and check oil level. The oil level should be within the "HOT" zone (2).
5. If oil is low, add hydraulic fluid to bring oil up to the "HOT" zone.
6. Replace transmission dipstick.
7. Close and secure the engine cover.

## Section 7 - Lubrication and Maintenance

### Hydraulic Return Filter

#### A. Hydraulic Return Filter Indicator Check

**10**   
OW0970



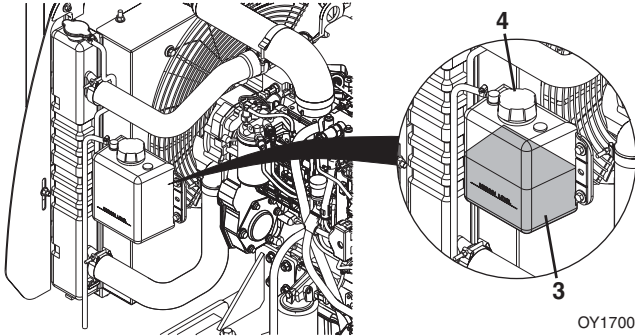
1. Apply park brake, shift transmission to "Neutral" and lower forks or attachment to horizontal position.
2. Check hydraulic return filter indicator with engine normal operating temperature.
3. Have an assistant open the engine cover.
4. With the engine at full throttle and the assistant observing the indicator (1) located on the hydraulic return filter (2), extend and retract the boom 10-12 ft (3.0-3.7 m). The bar gauge should be within the green area.
5. Replace filter before the gauge reaches the red area on the indicator. If it reaches the red area, the filter is too dirty and hydraulic oil is bypassing the filter.
6. Close and secure the engine cover.

### Engine Cooling System

#### A. Engine Coolant Level Check

50   
OW0980

  
OW1070



1. Perform "Shut-Down Procedure" on page 4-3.
2. Open the engine cover.
3. Check coolant level in overflow bottle (3). 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 (4) and add coolant as required.
5. Replace overflow bottle cap.
6. Close and secure the engine cover.

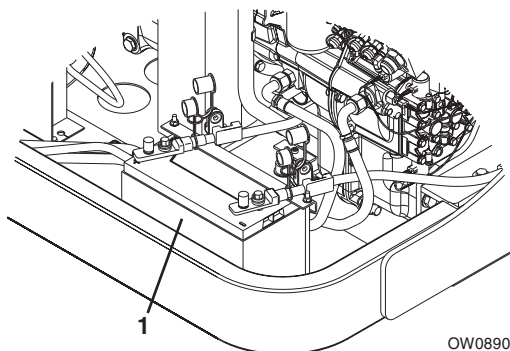
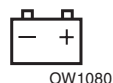
**Note:** When filling the engine with coolant, the maximum fill rate is 2.4 gallon per minute (9 liters per minute).

## Section 7 - Lubrication and Maintenance

### Battery

#### A. Battery Check

50   
OW0980



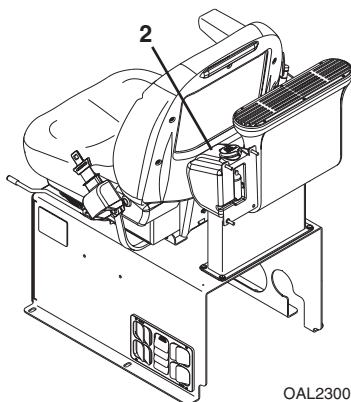
1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open the engine cover.
3. Wearing eye protection, visually inspect the battery (1). Check terminals for corrosion. Replace battery if it has a cracked, melted or damaged case.
4. Close and secure the engine cover.



**Windshield Washer System (if equipped)**

**A. Windshield Washer Fluid Level Check**

**50**   
OW0980



1. Perform “*Shut-Down Procedure*” on page 4-3.
2. The windshield washer fluid should be visible in the reservoir (2).
3. If washer fluid level is low, add fluid as needed.

**This Page Intentionally Left Blank**

## **SECTION 8 - ADDITIONAL CHECKS**

**This Page Intentionally Left Blank**

**This Page Intentionally Left Blank**

## **SECTION 9 - SPECIFICATIONS**

### **9.1 PRODUCT SPECIFICATIONS**

#### **Capacities**

##### **Engine Crankcase Oil**

Capacity with Filter Change .....7 qt (6,5 L)

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

##### **Fuel Tank**

Capacity .....38 gal (144 L)

Type of Fuel..... #2 Diesel

##### **Cooling System**

System Capacity .....22.25 qt (21 L)

Overflow Bottle Capacity .....3 qt (2,8 L)

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

Coolant Conditioner.....0.5 qt (0.47 L)

##### **Hydraulic System**

###### **System Capacity**

G10-55A AccuPlace .....63 gal (238 L)

G12-55A AccuPlace .....65 gal (246 L)

Reservoir Capacity to Full Mark .....38 gal (144 L)

Auxiliary Hydraulic Circuit Max Flow ..... 10 gpm (37,9 lpm)

Type of Oil ..... Mobilfluid® 424 Tractor Hydraulic Fluid

##### **Transmission**

Capacity with Filter Change .....4 gal (15 L)

Type of Fluid ..... Mobilfluid® 424 Tractor Hydraulic Fluid

## Section 9 - Specifications

---

### Transfer Case

Capacity..... 1.5 qt (1,4 L)

Type of Fluid ..... Mobilfluid® 424 Tractor Hydraulic Fluid

### Axles

Differential Housing Capacity (Front Axle)..... 15.8 qt (15 L)

Differential Housing Capacity (Rear Axle) ..... 16.9 qt (16 L)

Wheel End Capacity ..... 2 qt (1,9 L)

Type of Fluid ..... Mobilfluid® 424 Tractor Hydraulic Fluid

### Air Conditioning System (if equipped)

System Capacity.....2.5 lb (1134 g)

## Tires

---

14.00 x 24, G-2/L-2 Bias-Ply Traction - 12 Ply (G10-55A AccuPlace only)

Pneumatic.....65 psi (4,5 bar)

Foam..... Approx 720 lb (327 kg)

14.00 x 24, G-3/L-3 Bias Ply Rock - 12 Ply (G10-55A AccuPlace only)

Pneumatic.....65 psi (4,5 bar)

Foam..... Approx 720 lb (327 kg)

14.00 x 24, G-2/L-2 Radial - 1 Star (G10-55A AccuPlace only)

Pneumatic.....70 psi (4,8 bar)

Foam..... Approx 720 lb (327 kg)

17.50 x 25, G-2/L-2 Bias-Ply Traction - 12 Ply

Pneumatic.....65 psi (4,0 bar)

Foam..... Approx 785 lb (356 kg)

17.50 x 25, G-3/L-3 Bias Ply Rock - 12 Ply

Pneumatic.....65 psi (4,5 bar)

Foam..... Approx 785 lb (356 kg)

17.50 x 25, G-2/L-2 Radial - 1 Star

Pneumatic.....70 psi (4,8 bar)

Foam..... Approx 785 lb (356 kg)

### Wheel Lug Nut

Torque..... 350-400 lb-ft (475-542 Nm)

**Performance**

---

**Note:** Values shown are per machine as originally manufactured. Reference capacity charts in operator cab for specific model and attachment configuration values.

|                                   |                     |
|-----------------------------------|---------------------|
| Maximum Lift Capacity             |                     |
| G10-55A AccuPlace .....           | 10,000 lb (4536 kg) |
| G12-55A AccuPlace .....           | 12,000 lb (5443 kg) |
| Maximum Lift Height.....          | 55 ft (16,8 m)      |
| Capacity at Maximum Height        |                     |
| Outriggers Engaged .....          | 5,000 lb (2268 kg)  |
| Outriggers Not Engaged.....       | 4,000 lb (1814 kg)  |
| Maximum Forward Reach .....       | 42 ft (12,8 m)      |
| Capacity at Maximum Forward Reach |                     |
| Outriggers Engaged                |                     |
| G10-55A AccuPlace .....           | 3,000 lb (1360 kg)  |
| G12-55A AccuPlace .....           | 3,500 lb (1588 kg)  |
| Outriggers Not Engaged.....       | 0 lb (0 kg)         |
| Reach at Maximum Height.....      | 8.7 ft (2,6 m)      |
| Maximum Travel Speed .....        | 18.9 mph (30,4 kph) |
| Towing Capacity .....             | 10,000 lb (4536 kg) |
| Frame Leveling .....              | 10 degrees          |
| Maximum Travel Grade              |                     |
| Gradeability .....                | 45%                 |
| Side Slope .....                  | 8.75%               |

**Section 9 - Specifications**

---

**Dimensions**

---

|                                                                                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------|
| Overall Height.....                                                                 | 101 in (2565 mm)                                  |
| Overall Width                                                                       |                                                   |
| G10-55A AccuPlace .....                                                             | 101 in (2565 mm)                                  |
| G12-55A AccuPlace .....                                                             | 102 in (2591 mm)                                  |
| Cab Width.....                                                                      | 37 in (940 mm)                                    |
| Track Width.....                                                                    | 85.4 in (2169 mm)                                 |
| Wheelbase.....                                                                      | 144 in (3658 mm)                                  |
| Length at Front Wheels .....                                                        | 201 in (5105 mm)                                  |
| Overall Length (less Forks).....                                                    | 254 in (6452 mm)                                  |
| Ground Clearance                                                                    |                                                   |
| G10-55A AccuPlace .....                                                             | 18 in (457 mm)                                    |
| G12-55A AccuPlace .....                                                             | 19 in (482 mm)                                    |
| Turning Radius Over Tires.....                                                      | 156 in (3962 mm)                                  |
| Turning Radius at Forks.....                                                        | 168 in (4267 mm)                                  |
| Maximum Gross Vehicle Weight (no attachment).....                                   | 37,790 lb (17.141 kg)                             |
| Maximum Front Axle Weight (no attachment)<br>(boom level and fully retracted) ..... | 19,726 lb (8948 kg)                               |
| Maximum Rear Axle Weight (no attachment)<br>(boom level and fully retracted) .....  | 18,064 lb (8194 kg)                               |
| Maximum Ground Bearing Pressure                                                     |                                                   |
| G10-55A AccuPlace                                                                   |                                                   |
| 14.00 x 24 Air Filled .....                                                         | 153 lb/in <sup>2</sup> (10,8 kg/cm <sup>2</sup> ) |
| 17.50 x 25 Air Filled .....                                                         | 159 lb/in <sup>2</sup> (11,2 kg/cm <sup>2</sup> ) |
| 14.00 x 24 Foam Filled.....                                                         | 178 lb/in <sup>2</sup> (12,5 kg/cm <sup>2</sup> ) |
| 17.50 x 25 Foam Filled.....                                                         | 180 lb/in <sup>2</sup> (12,7 kg/cm <sup>2</sup> ) |
| G12-55A AccuPlace                                                                   |                                                   |
| 14.00 x 24 Air Filled .....                                                         | 164 lb/in <sup>2</sup> (11,5 kg/cm <sup>2</sup> ) |
| 17.50 x 25 Foam Filled.....                                                         | 190 lb/in <sup>2</sup> (13,4 kg/cm <sup>2</sup> ) |



|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| <b>A</b>                                | <b>D</b>                                |
| Accessory Control Lever ..... 3-16      | Decals ..... 2-3                        |
| Additional Checks..... 8-1              | Dimensions ..... 9-4                    |
| Adjusting/Moving Forks ..... 5-13       | Disengaging a Load ..... 4-6            |
| Attachment Installation ..... 5-10      | Disengaging a Suspended Load ..... 4-9  |
| Attachment Operation ..... 5-14         | Display ..... 3-5                       |
| Attachments                             | Driving Hazards On Slopes..... 1-9      |
| Approved..... 5-1                       |                                         |
| JLG Supplied ..... 5-2                  | <b>E</b>                                |
| Unapproved ..... 5-1                    | Electrical Hazards ..... 1-2            |
| Auxiliary Hydraulic Joystick ..... 3-13 | Emergency Exit from                     |
|                                         | Enclosed Cab..... 6-2                   |
| <b>B</b>                                | Emergency Lowering of Boom..... 6-2     |
| Battery ..... 7-20                      | Emergency Procedures ..... 6-1          |
| Boom Indicator                          | Engine                                  |
| Angle ..... 3-21                        | Normal Operation ..... 4-3              |
| Extension ..... 3-21                    | Starting ..... 4-1                      |
| Boom Joystick                           | Engine Coolant Level..... 7-19          |
| AccuPlace Mode ..... 3-11               | Engine Oil Level..... 7-12              |
| Standard Mode ..... 3-10                |                                         |
| Bucket ..... 5-28                       | <b>F</b>                                |
|                                         | Fall Hazard..... 1-12                   |
| <b>C</b>                                | Fork Mounted Hook ..... 5-24            |
| Capacities                              | Frame Level Joystick ..... 3-12         |
| Air Conditioning System..... 9-2        | Fuel Level ..... 7-8                    |
| Axles ..... 9-2                         | Fuel/Water Separator..... 7-9           |
| Cooling System..... 9-1                 |                                         |
| Engine Oil ..... 9-1                    | <b>G</b>                                |
| Fuel Tank..... 9-1                      | General Maintenance..... 7-2            |
| Hydraulic System ..... 9-1              | Grapple Bucket ..... 5-30               |
| Transfer Case ..... 9-2                 |                                         |
| Transmission..... 9-1                   | <b>H</b>                                |
| Capacity ..... 5-3                      | Hazard Classification System ..... 1-1  |
| Capacity Chart                          | Headlights ..... 3-16                   |
| Example ..... 5-8                       | Heater and Air Conditioning             |
| Sample..... 5-6                         | Controls..... 3-17                      |
| Capacity Indicator Locations ..... 5-4  | Hydraulic Oil Level ..... 7-13          |
| Carriage w/Forks ..... 5-15             | Hydraulic Operated Attachment..... 5-12 |
| Chemical Hazards ..... 1-13             | Hydraulic Return Filter ..... 7-18      |
| Controls ..... 3-2                      |                                         |

## **Index**

|                                              |           |
|----------------------------------------------|-----------|
| <b>I</b>                                     |           |
| Ignition .....                               | 3-6       |
| Instrument Panel .....                       | 3-4       |
| <b>L</b>                                     |           |
| Leveling Procedure.....                      | 4-5, 4-8  |
| Lifting Personnel .....                      | 1-8       |
| Load Falling Hazard .....                    | 1-7       |
| Lubrication and Maintenance .....            | 7-1       |
| Lubrication Schedule                         |           |
| 250 Hour .....                               | 7-7       |
| 50 Hour .....                                | 7-6       |
| <b>M</b>                                     |           |
| Mast Carriage .....                          | 5-20      |
| Mast Carriage w/Side Tilt .....              | 5-22      |
| <b>O</b>                                     |           |
| Operating with a Non-Suspended Load.....     | 4-4       |
| Operating with a Suspended Load ...          | 4-7       |
| Operation .....                              | 4-1       |
| Operational Check.....                       | 2-8       |
| Operator Cab .....                           | 2-9       |
| Operator Maintenance Instructions ..         | 7-8       |
| Operator Seat .....                          | 3-19      |
| Outrigger Joysticks .....                    | 3-14      |
| <b>P</b>                                     |           |
| Park Brake .....                             | 3-7       |
| Parking Lights .....                         | 3-16      |
| Parking Procedure.....                       | 3-7       |
| Performance .....                            | 9-3       |
| Personnel Work Platform - Fork Mounted ..... | 5-32      |
| Picking Up a Load .....                      | 4-4       |
| Picking Up a Suspended Load .....            | 4-7       |
| Pinch Points and Crush Hazards....           | 1-10      |
| Placing a Load.....                          | 4-6       |
| Placing a Suspended Load .....               | 4-9       |
| Pre-Operation Check and Inspection.....      | 2-1       |
| <b>R</b>                                     |           |
| Restriction Indicator .....                  | 7-10      |
| Right Panel.....                             | 3-15      |
| <b>S</b>                                     |           |
| Safety Decals .....                          | 2-3       |
| Safety Practices .....                       | 1-1       |
| Safety Signal Words.....                     | 1-1       |
| Seat Belt.....                               | 3-20      |
| Service and Maintenance Schedule             |           |
| 10 Hour .....                                | 7-3       |
| 1000 Hour .....                              | 7-5       |
| 1500 Hour .....                              | 7-5       |
| 1st 100 Hour .....                           | 7-3       |
| 250 Hour .....                               | 7-4       |
| 50 Hour .....                                | 7-4       |
| 500 Hour .....                               | 7-4       |
| Shut-Down Procedure .....                    | 4-3       |
| Side Tilt Carriage .....                     | 5-16      |
| Specifications .....                         | 9-1       |
| Steer Modes .....                            | 3-18      |
| Swing Carriage.....                          | 5-18      |
| <b>T</b>                                     |           |
| Tip Over Hazard.....                         | 1-3       |
| Tires .....                                  | 7-14, 9-2 |
| Air Pressure .....                           | 7-14      |
| Damage .....                                 | 7-14      |
| Replacement.....                             | 7-15      |
| Towing.....                                  | 6-1       |
| Transmission Control Lever                   |           |
| Direction of Travel.....                     | 3-8       |
| Gear Selection .....                         | 3-9       |
| Transmission Oil Level.....                  | 7-17      |
| Transport                                    |           |
| Lifting .....                                | 4-11      |
| Tiedown .....                                | 4-10      |

|                                     |      |
|-------------------------------------|------|
| Transporting a Load .....           | 4-5  |
| Transporting a Suspended Load ..... | 4-8  |
| Travel Hazard.....                  | 1-6  |
| Truss Boom .....                    | 5-26 |
| Turn Signal .....                   | 3-16 |

## **W**

|                                     |      |
|-------------------------------------|------|
| Walk-Around Inspection .....        | 2-6  |
| Warm-Up Check.....                  | 2-8  |
| Wheel Lug Nut.....                  | 9-2  |
| Wheel Replacement .....             | 7-15 |
| Windows.....                        | 2-10 |
| Windshield Washer Fluid Level ..... | 7-21 |



[illegible]

## Inspection, Maintenance and Repair Log

[illegible]



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?**

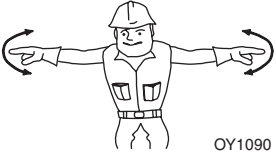
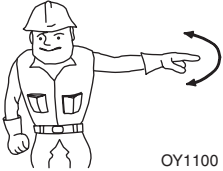
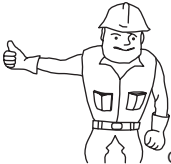
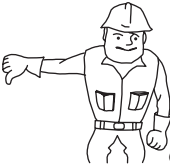
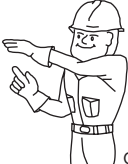
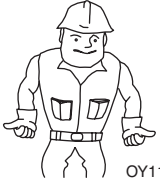
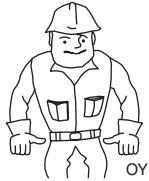
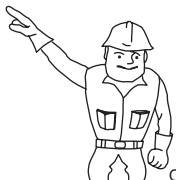
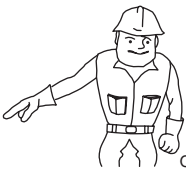
**Name:** \_\_\_\_\_

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





# Hand Signals

|                                                                                                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>OY1090</p> <p><b>EMERGENCY STOP</b> - With both arms extended laterally, hands open downward, move arms back and forth.</p> |  <p>OY1100</p> <p><b>STOP</b> - With either arm extended laterally, hand open downward, move arm back and forth.</p>       |  <p>OY1110</p> <p><b>STOP ENGINE</b> - Draw thumb or forefinger across throat.</p>                                                    |
|  <p>OY1120</p> <p><b>RAISE BOOM</b> - With either arm extended horizontally, fingers closed, point thumb upward.</p>            |  <p>OY1130</p> <p><b>LOWER BOOM</b> - With either arm extended horizontally, fingers closed, point thumb downward.</p>     |  <p>OY1140</p> <p><b>MOVE SLOWLY</b> - Place one hand motionless in front of hand giving motion signal. (Raise load slowly shown)</p> |
|  <p>OY1150</p> <p><b>EXTEND BOOM</b> - With both hands clenched, point thumbs outward.</p>                                      |  <p>OY1160</p> <p><b>RETRACT BOOM</b> - With both hands clenched, point thumbs inward.</p>                                 |  <p>OY1170</p> <p><b>THIS FAR TO GO</b> - With hands raised and open inward, move hands laterally, indicating distance to go.</p>     |
|  <p>OY1180</p> <p><b>TILT FORKS UP</b> - With one arm held at side, extend other arm upward at about 45 degrees.</p>          |  <p>OY1190</p> <p><b>TILT FORKS DOWN</b> - With one arm held at side, extend other arm downward at about 45 degrees.</p> |                                                                                                                                                                                                                        |

**Special Signals** - When signals for auxiliary equipment functions or conditions not covered are required, they shall be agreed upon in advance by the operator and signalman.



3128447



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: +61 265 811 111  
Fax: +61 265 810 122

JLG Latino Americana Ltda.  
Rua Eng. Carlos Stevenson,  
80-Suite 71  
13092-310 Campinas-SP  
Brazil  
Phone: +55 193 295 0407  
Fax: +55 193 295 1025

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

JLG Industries (Scotland)  
Wright Business Centre  
1 Lonmay Road  
Queenslie, Glasgow G33 4EL  
Scotland  
Phone: +44 (0)141 781 6700  
Fax: +44 (0)141 773 1907

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