



Operation & Safety Manual

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

***Models
L2906H, 2906H,
3507H,
619A & 723A***

31200567

*Revised
November 11, 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

April 27, 2009 - A - Original Issue of Manual

November 16, 2009 - B - Revised covers.

August 30, 2010 - C - Revised pages 2-10, 2-11, 3-14, 3-15, 7-4 & 8-1.

November 11, 2010 - D - Revised pages 2-5, 3-14, 3-15 & 3-16.

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 (as required)
- All instructional decals and plates
- Any optional equipment instructions furnished

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

Modifications

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:

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Hagerstown, MD 21742
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(Addresses on back cover)

In USA

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

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E-mail

ProductSafety@JLG.com

Read This First

Other Publications Available

Service Manual.....31200568

Illustrated Parts Manual.....31200566

Note: The following standards may be referenced in this manual:
ANSI is compliant to ANSI/ITSDF B56.6
AUS is compliant to AS 1418.19
CE is compliant to EN1459
Refer to the machine Serial Number Plate to identify the applicable compliance standard.

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Read This First

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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

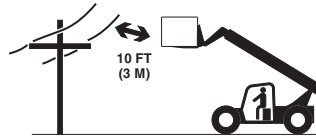
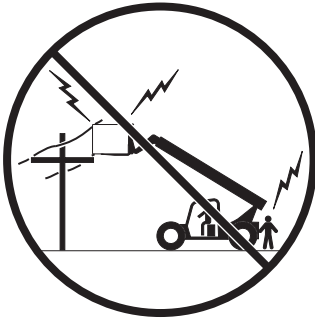


Before operation, read and understand this manual. Failure to comply with the safety precautions listed in this manual could result in machine damage, property damage, personal injury or death.

Section 1 - General Safety Practices

1.3 OPERATION SAFETY

Electrical Hazards



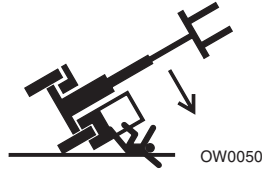
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- This machine is not insulated and does not provide protection from contact or being near electrical current.
- **NEVER** operate the telehandler in an area where overhead power lines, overhead or underground cables, or other power sources may exist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

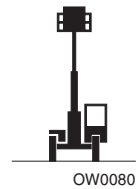
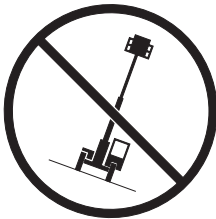
Tip Over Hazard

General

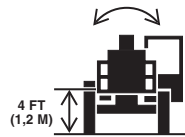
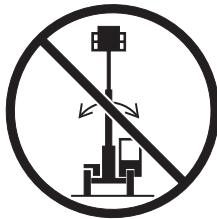
- For additional load requirements, refer to the appropriate capacity chart.



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

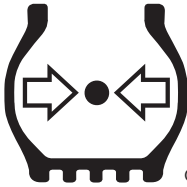


- DO NOT** raise boom unless frame is level (0 degrees), unless otherwise noted on capacity chart.



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

Section 1 - General Safety Practices



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**

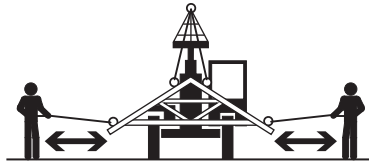
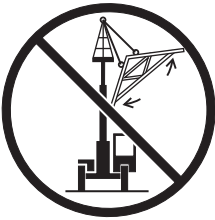
Non-Suspended Load



OW0060

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

Suspended Load



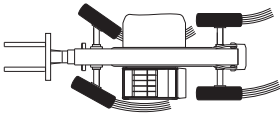
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- Tether suspended loads to restrict movement.
- **DO NOT** raise the load more than 300 mm (11.8 in) above ground surface or the boom more than 45°.
- Weight of all rigging (slings, etc.) must be included as part of load.
- Start, travel, turn and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

Section 1 - General Safety Practices

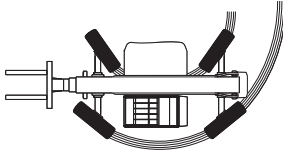
Travel Hazard

2-Wheel Front Steer

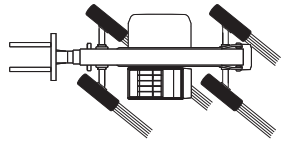


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4-Wheel Circle Steer



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



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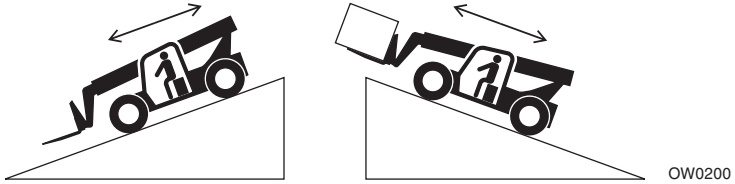
- When lifting personnel, **USE ONLY** a JLG approved personnel work platform, with proper capacity chart displayed in the cab.



OW0190

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

Driving Hazards on Slopes



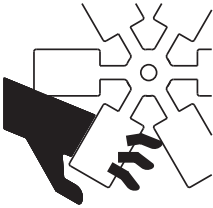
To maintain sufficient traction and braking capabilities, travel on slopes as follows:

- 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.



OW0240

- Keep clear of boom holes.



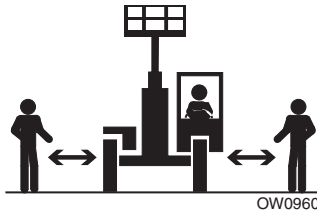
OW0250

- Keep arms and hands clear of attachment tilt cylinder.



OW0260

- Keep hands and fingers clear of carriage and forks.



OW0960

- Keep others away while operating.

Section 1 - General Safety Practices

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.

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SECTION 2 - PRE-OPERATION AND INSPECTION

2.1 PRE-OPERATION CHECK AND INSPECTION

Note: Complete all required maintenance before operating unit.

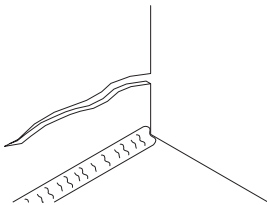


WARNING

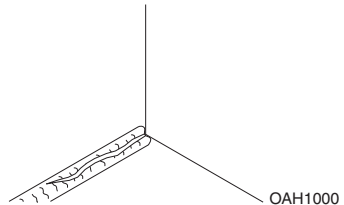
FALL HAZARD. Use extreme caution when checking items beyond your normal reach. Use an approved ladder.

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

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



PARENT METAL CRACK



WELD CRACK

3. **Safety Decals** - Ensure all safety decals are legible and in place. Clean or replace as required. See page 2-3 for details.
4. **Operation and Safety Manuals** - Operation & Safety Manual and AEM Safety Manual (as required) are located in cab manual holder.
5. **Walk-Around Inspection** - See page 2-10 for details.
6. **Fluid Levels** - Check fluids, including fuel, hydraulic oil, engine oil and coolant. When adding fluids, refer to Section 7 - Lubrication and Maintenance and Section 9 - Specifications to determine proper type and intervals. Before removing filler caps or fill plugs, wipe all dirt and grease away from the ports. If dirt enters these ports, it can severely reduce component life.
7. **Attachments/Accessories** - Ensure correct capacity charts are installed on the telehandler. If provided, reference the Operation & Safety Manual of each attachment or accessory installed for specific inspection, operation and maintenance instructions.

Section 2 - Pre-Operation and Inspection

8. **Operational Check** - Once the walk-around inspection is complete, perform a warm-up and operational check (see page 2-12) of all systems in an area free of overhead and ground level obstructions. See Section 3 - Controls and Indicators for more specific operating instructions.



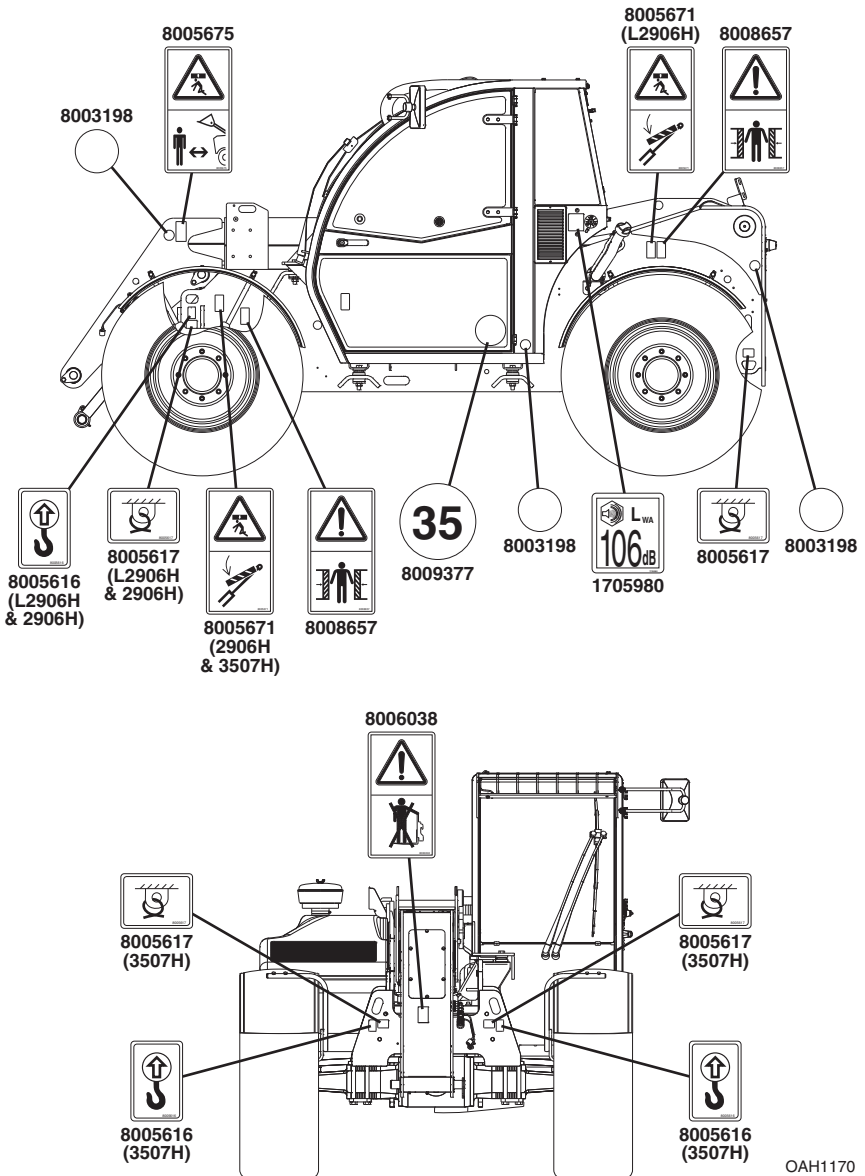
WARNING

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

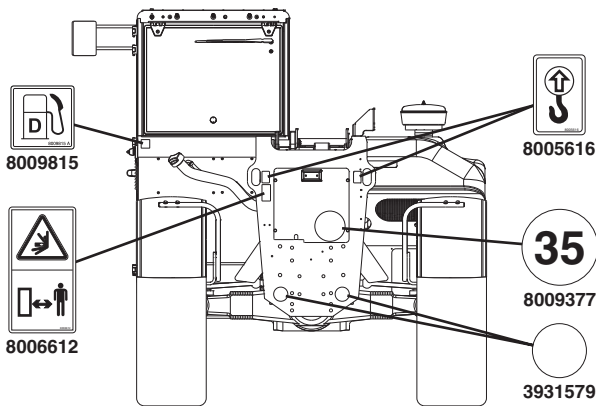
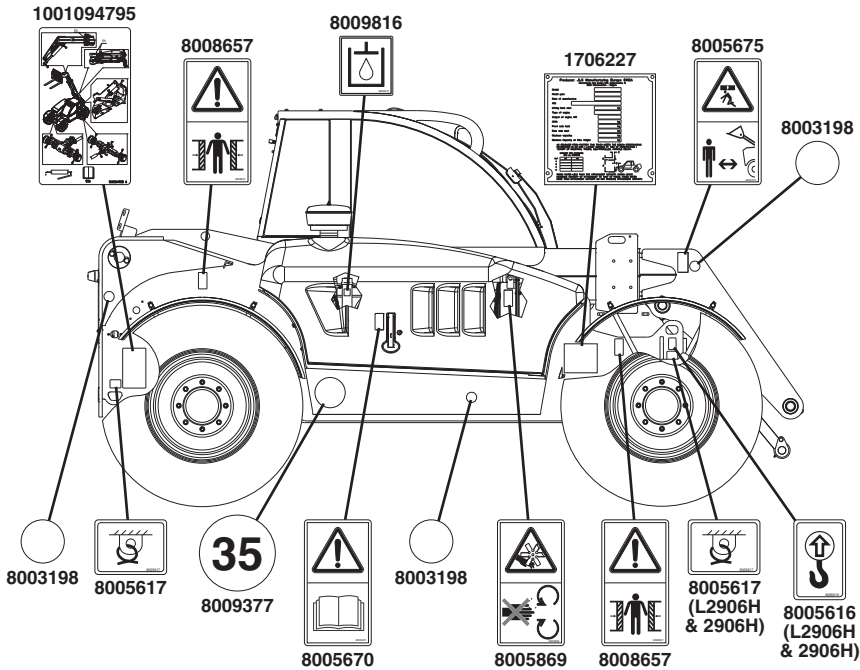
Ensure all **DANGER**, **WARNING**, **CAUTION** and instructional decals and proper capacity charts are legible and in place. Clean and replace as required.

L2906H, 2906H & 3507H



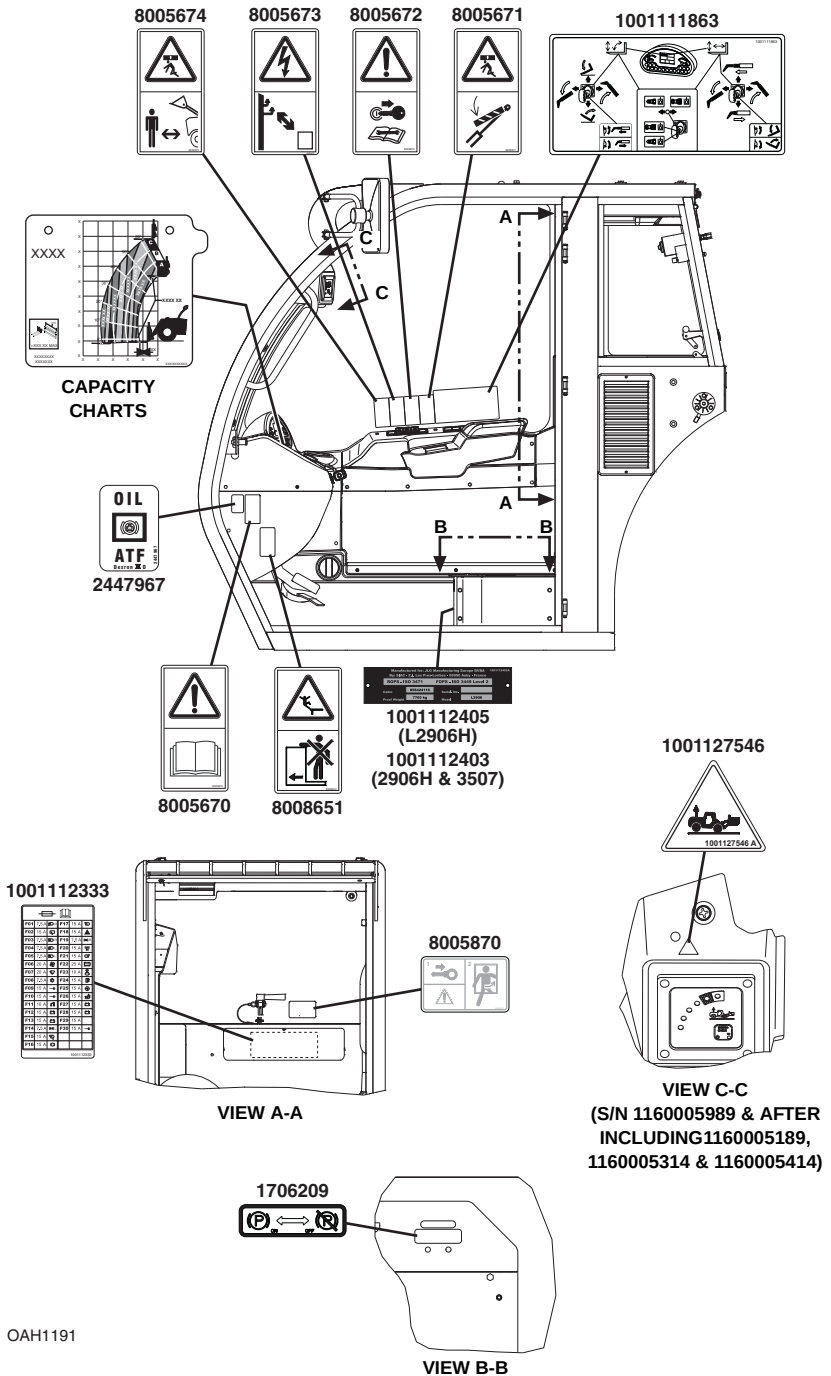
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Section 2 - Pre-Operation and Inspection



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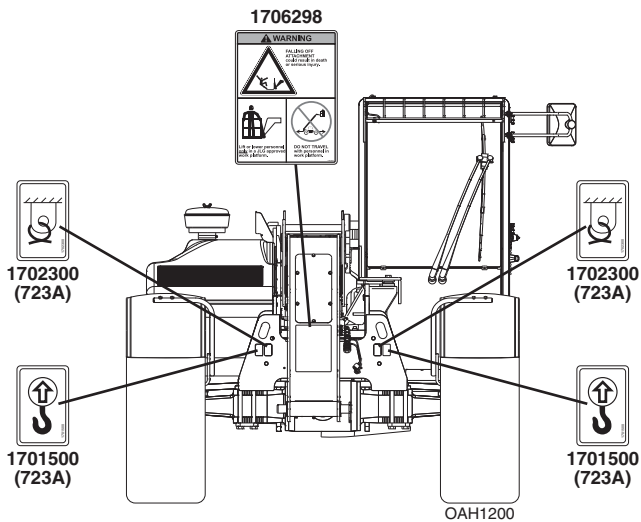
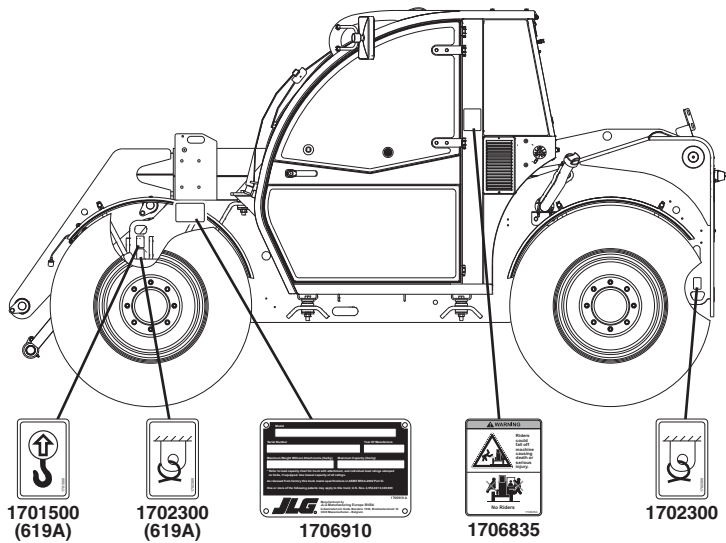
Section 2 - Pre-Operation and Inspection



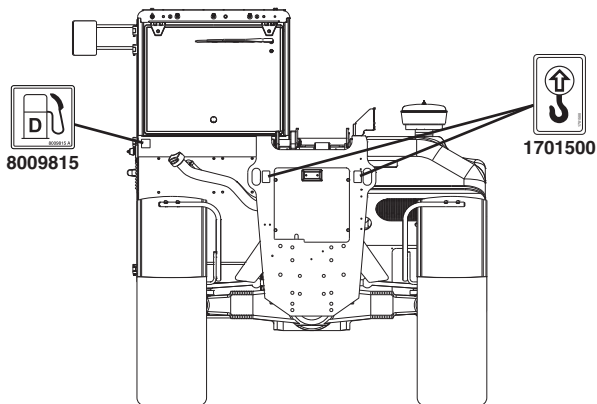
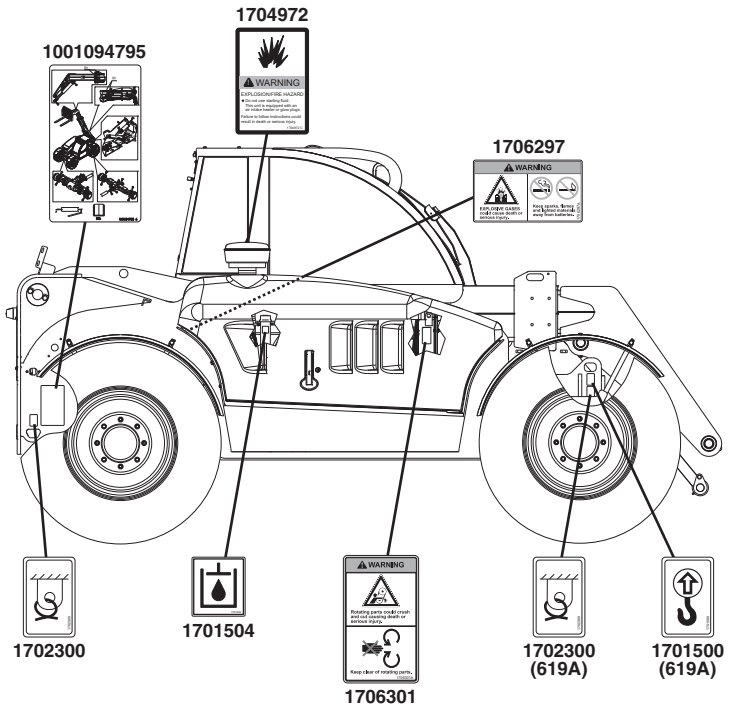
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Section 2 - Pre-Operation and Inspection

619A & 723A

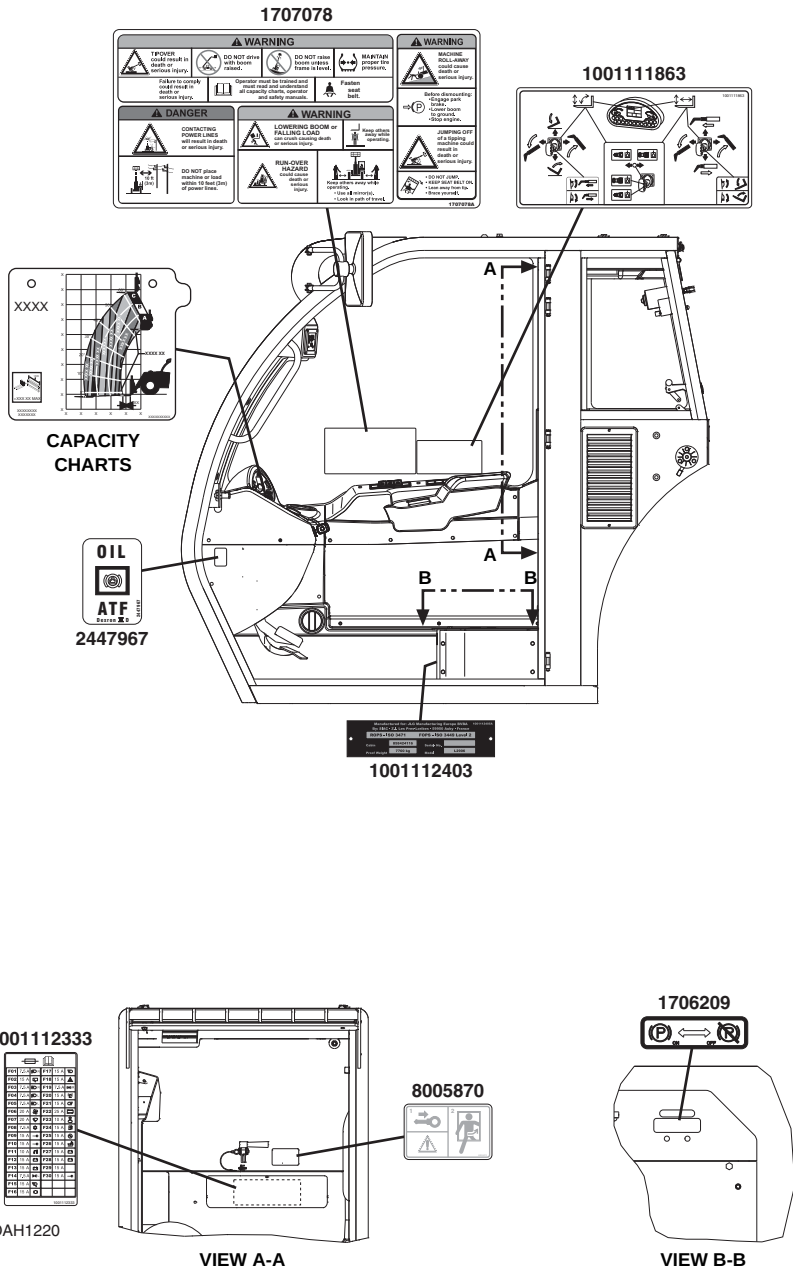


Section 2 - Pre-Operation and Inspection



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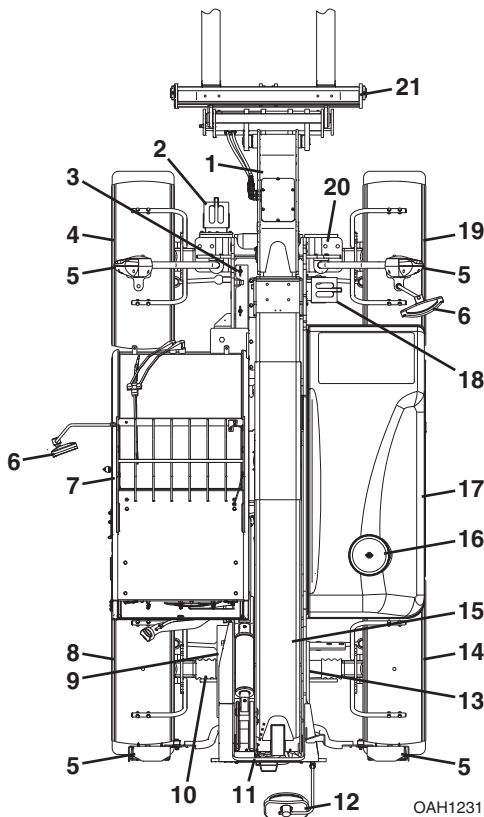
Section 2 - Pre-Operation and Inspection



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Section 2 - Pre-Operation and Inspection

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, Compensating (Slave) Cylinders -
 - Check front, top, side and rear wear pads for presence of grease.
 - Pivot pins secure; hydraulic hoses undamaged, not leaking.
2. Wheel Chock (L2906H & 2906H, if equipped) - See inspection note.
3. Boom Prop (2906H & 3507H)(619A & 723A, if equipped) - See inspection note.
4. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.

Section 2 - Pre-Operation and Inspection

5. Work Lights (if equipped) - Clean and undamaged.
6. Mirrors - Clean and undamaged.
7. Cab and Electrical -
 - General appearance; no visible damage.
 - Frame level indicator and window glass undamaged and clean.
 - Gauges, switches, joystick, foot controls, park brake and horn operational.
 - Fire Extinguisher (723A, if equipped) charged, undamaged and clean.
 - Check seat belt for damage, replace belt if frayed or cut webbing, damaged buckles or loose mounting hardware.
8. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
9. Boom Prop (L2906H) - See inspection note.
10. Rear Axle - Steer cylinders undamaged, not leaking; pivot pins secure; hydraulic hoses undamaged, not leaking.
11. Main Control Valve - See inspection note.
12. Rear Mirror (if equipped) - Clean and undamaged.
13. LSI Sensor (L2906H, 2906H & 3507H) - See inspection note.
14. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
15. Boom Sensor (L2906H, 2906H & 3507H S/N 1160005989 & After including 1160005189, 1160005314 & 1160005414) - See inspection note.
16. Air Precleaner - Check and clean as required.
17. Engine Compartment -
 - Drive belts, check condition and replace as required.
 - Engine mounts - See inspection note.
 - Battery cables tight, no visible damage or corrosion.
 - Engine cover closed and properly secured.
18. Wheel Chock (3507H, if equipped) - See inspection note.
19. Wheel/Tire Assembly - Properly inflated and secured; no loose or missing lug nuts. Inspect for worn tread, cuts, tears or other discrepancies.
20. Front Axle - Steer cylinders undamaged, not leaking; hydraulic hoses undamaged, not leaking.
21. Attachment - Properly installed, see “Attachment Installation” on page 5-7.

Section 2 - Pre-Operation and Inspection

2.4 WARM-UP AND OPERATIONAL CHECKS

Warm-Up Check

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.

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 operators cab with engine running.
6. All joystick functions - operate smoothly and correctly.
7. 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

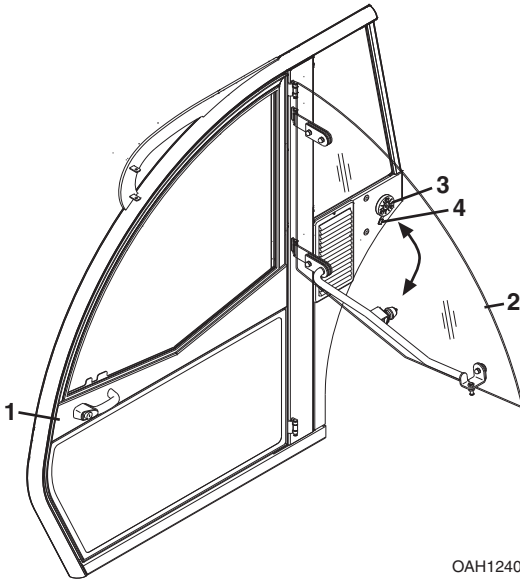
Never operate telehandler unless the overhead guard and cab structure are in good condition. Any modification to this machine must be approved by JLG to assure compliance with ROPS/FOPS certification for this cab/machine configuration. If damaged, the **CAB CANNOT BE REPAIRED**. It must be **REPLACED**.

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 the release button inside the cab or pull lever (4) outside the cab to unlatch the window.

SECTION 3 - CONTROLS AND INDICATORS

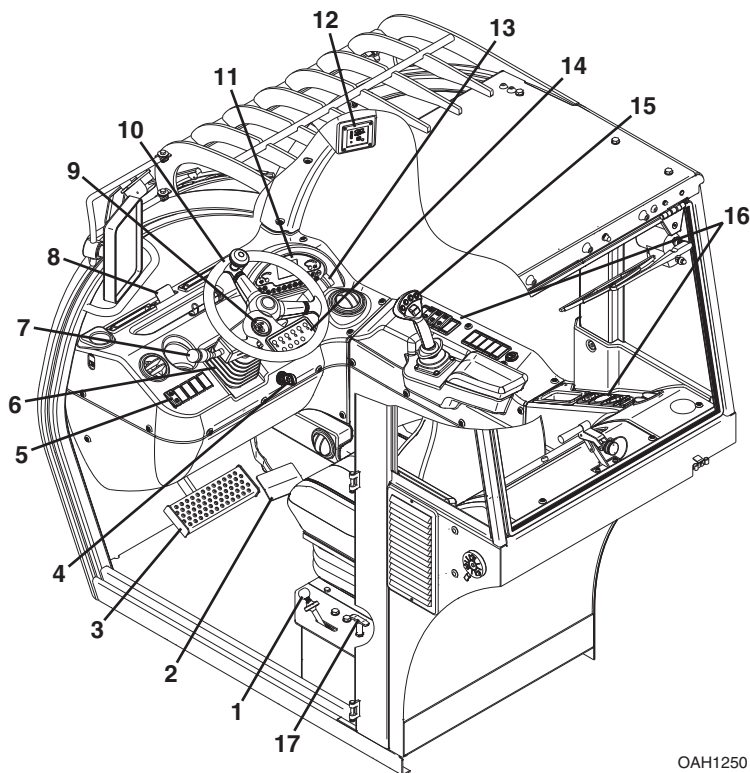
3.1 GENERAL

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



OAH1250

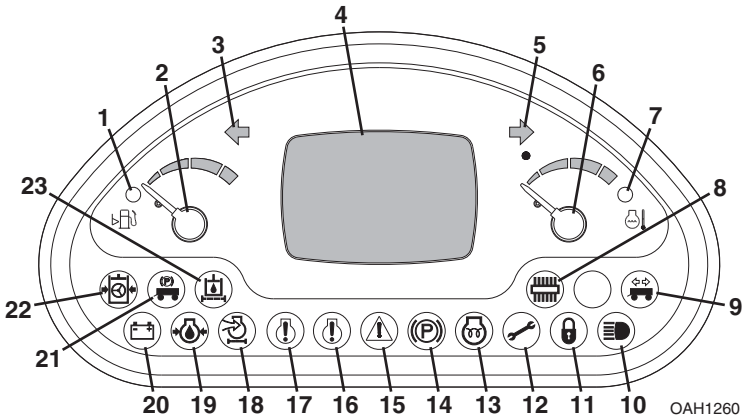
1. Park Brake: See page 3-11.
2. Accelerator Pedal: Pressing down the pedal increases engine and hydraulic speed.
3. Service Brake Pedal: The further the pedal is depressed, the slower the travel speed.
4. Ignition Switch: Key activated. See page 3-10.
5. Front Console Switches: See page 3-22.
6. Adjustable Steering Column: See page 3-17.
7. Transmission Control Lever: See page 3-12.
8. Frame Level Indicator: Enables operator to determine the left to right level condition of the telehandler.
9. Engine Oil Temperature Gauge (723A, if equipped): Indicates engine oil operating temperature.

Section 3 - Controls and Indicators

10. 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 3-27.
11. Instrument Panel: See page 3-4.
12. LSI Indicator (L2906H, 2906H & 3507H): See page 3-14.
13. Accessory Control Lever (if equipped): See page 3-24.
14. Keypad: See page 3-8.
15. Joystick: See page 3-18.
16. Side Console Switches: See page 3-22.
17. Hydraulic Hitch Safety Hook Release (if equipped): Pull to release safety hooks on hydraulic hitch. See page 5-47.

Section 3 - Controls and Indicators

Instrument Panel



1. Low Fuel Indicator: Illuminates and buzzer sounds briefly when fuel level is low.
2. Fuel Gauge: Indicates amount of fuel in fuel tank.
3. Left Turn Signal Indicator: Illuminates when left turn signal is active.
4. Display Screen: See page 3-6.
5. Right Turn Signal Indicator: Illuminates when right turn signal is active.
6. Engine Temperature Gauge: Indicates engine operating temperature.
7. Engine Temperature Warning Indicator: Illuminates and buzzer sounds when engine temperature is too high.
8. Continuous Auxiliary Hydraulics Indicator: Illuminates when continuous auxiliary hydraulics are active.
9. Trailer Turn Signal Indicator: Illuminates when trailer turn signal is activated.
10. High Beam Indicator: Illuminates when high beam lights are on.
11. Anti Theft Indicator: Illuminates and buzzer sounds briefly at start-up when anti theft feature is active. Enter anti theft code, see page 3-26.
12. Maintenance Indicator: Illuminates and buzzer sounds briefly when maintenance is required.
13. Engine Preheat Indicator: With ignition key in position II, illuminates up to twelve seconds to indicate engine preheat is active.
14. Park Brake Indicator: Illuminates when park brake is applied. See page 3-11.
15. System Distress Indicator: Illuminates and buzzer sounds when critical machine and engine faults exist.

Section 3 - Controls and Indicators

16. Engine Fault Critical Indicator: Illuminates and buzzer sounds when a critical engine fault exists.
17. Engine Fault Warning Indicator: Illuminates and buzzer sounds when engine is operating outside the normal range.
18. Air Filter Restriction Indicator: Illuminates and buzzer sounds briefly when air filter(s) require maintenance.
19. Engine Oil Pressure Indicator: Illuminates and buzzer sounds when engine oil pressure is too low.
20. Battery Charge Indicator: Illuminates when battery is at low charge or charging system is not functioning properly.
21. Trailer Park Brake Indicator: Illuminates when trailer park brake is applied.
22. Steering Pressure Indicator: Illuminates and buzzer sounds when steering pressure is too low.
23. Hydraulic Filter Restriction Indicator: Illuminates and buzzer sounds briefly when hydraulic filter requires maintenance.

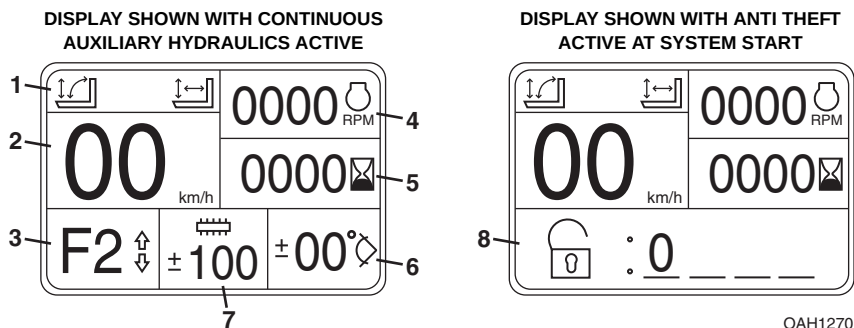
NOTICE

EQUIPMENT DAMAGE. When the engine fault, system distress or a red indicator illuminates (except park brake), immediately bring machine to a stop, lower boom and attachment to ground and stop the engine. Determine cause and correct before continued use.

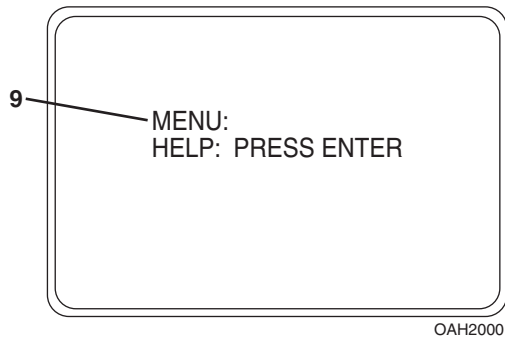
Note: All indicators (except high beam and turn signals) perform a bulb check at system start up.

Section 3 - Controls and Indicators

Display Screen



1. **Joystick Mode:** Displays current joystick mode. Joystick mode can be changed by the machine owner in Operator Tools Menu (level 2 password required). See Service Manual for information.
 - a. **Loader Joystick Pattern** - Displays loader joystick pattern icon on left when active. See page 3-20.
 - b. **Lift Joystick Pattern** - Displays lift joystick pattern icon on right when active. See page 3-18.
2. **Speed:** Telehandler travel speed displayed in kilometers per hour (km/h) or miles per hour (m/h). Travel speed will flash and buzzer sounds if maximum travel speed is exceeded.
3. **Driving Direction and Gear:** Displays current driving condition.
 - a. **Direction** - Forward (F), Neutral (N) or Reverse (R).
 - b. **Gear** - First (1) or Second (2).
4. **Engine Speed:** Displays engine speed in revolutions per minute (rpm).
5. **Operating Hours:** Displays total hours of telehandler operation.
6. **Boom Angle:** Displays boom angle in degrees. 0 degrees indicates horizontal.
7. **Continuous Auxiliary Hydraulics and Steering Mode Change:**
 - a. **Continuous Auxiliary Hydraulics** - Displays flow value (-100% to +100%) when continuous auxiliary hydraulics is activated. See Section 5 - Attachments and Hitches for details.
 - b. **Steering Mode Change** - Assists with steering mode change. See "Steer Modes" on page 3-27 for details.
8. **Anti Theft Code Entry:** If active, the four digit code must be entered after system start. See "Anti Theft" on page 3-26.

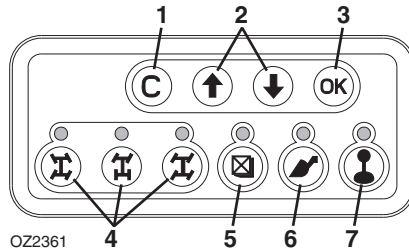


OAH2000

9. **Menus:** Menus display fault codes and other machine information while allowing modification of some operating parameters. Depress and hold the C and OK buttons on the keypad to access menus.
- a. **Help** - Displays active fault code. Depress OK button again and use keypad arrows to cycle through the last 25 fault codes. Active faults are denoted with an asterisk.
 - b. **Operator Tools** - Speed, Temperature and Oil Pressure units, Steering Change Mode and Tires can be modified by the operator. Customer or Service level access code required to modify additional items.
 - Machine Speed - Select units (km/h or m/h) to be displayed.
 - Engine Temperature - Select units (Celsius or fahrenheit) to be displayed.
 - Steering Alignment Mode - Select mode (manual, rear wheel assisted or all wheel assisted, if equipped) to be used when changing steering modes, see page 3-27.
 - Tires - Select tire size installed on machine.
 - c. **Personalities** - View performance parameters. Customer or Service level access code required to modify parameters.
 - d. **Access Level** - Code entry determines access level.
 - Operator (Level 3) - No code required.
 - Customer (Level 2) - See Service Manual for information.
 - Service (Level 1) - Manufacturer service representative only.
 - e. **Diagnostics** - View diagnostic information.
 - f. **System Test** - Performs test of all system inputs and outputs.
 - g. **Machine Setup** - View machine configurations. Service level access code required to modify configurations.
 - h. **Calibrations** - Customer or Service level access code required.

Section 3 - Controls and Indicators

Keypad



1. **C** (Clear or escape): Use in conjunction with display screen. Returns user interface one level during navigation. If at top level menu, depress and hold for one second to exit.
2. **Up/Down Arrows**: Use in conjunction with display screen. Navigate menu selections and change adjustable values.
3. **OK** (Enter): Use in conjunction with display screen. Confirms user interface inputs.
4. **Steer Mode**: Three steer modes available: 4-Wheel Circle Steer, 2-Wheel Front Steer and 4-Wheel Crab Steer. Illuminated LED indicates current steer mode. See page 3-27.

Note: If machine is shut-down during steer mode change, it must be completed at restart.

5. **LSI Override** (L2906H, 2906H & 3507H): Momentarily disables the automatic function cut-out. LED flashes while activated. Depress and hold up to 30 seconds while operating joystick to momentarily disable the automatic function cut-out.



WARNING

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

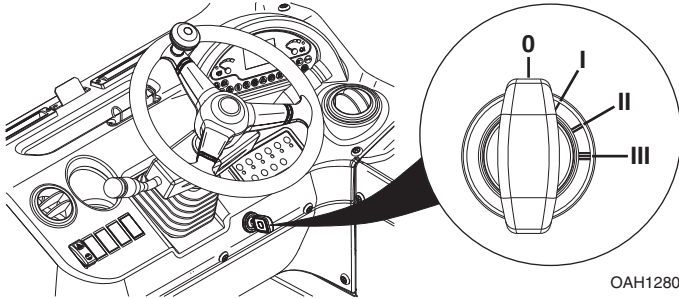
6. **Bucket Mode**: LED lit while activated. Increases response to attachment tilt function.
7. **Joystick Function**: LED lit while activated. Boom, auxiliary hydraulics and outrigger functions are enabled. Deactivate this function before traveling on public roads. See "Road Operation (L2906H, 2906H & 3507H)" on page 4-10.

Note: All LEDs perform a bulb check at system start up.

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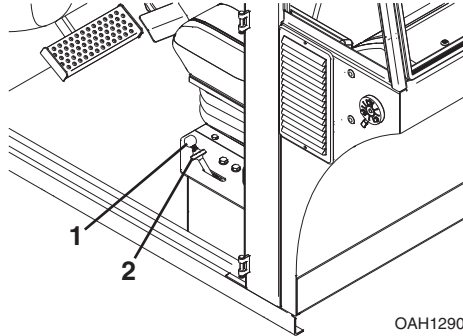
Section 3 - Controls and Indicators

Ignition



- Position **0** - Engine off. Key is removable.
- Position **I** - Voltage available for all electrical functions.
- Position **II** - Engine preheat at temperatures below 32° C (90° F). Hold position up to 12 seconds. Position II is a momentary position and will return to position I when released.
- Position **III** - Engine start. In the event the engine does not start, rotate key to position 0 then back to position III to re-engage the starter.

Park Brake



The park brake lever (1) controls the application and release of the park brake.

- Pull lever back to apply park brake.
- Lift detent ring (2) and push lever forward to release park brake.



WARNING

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



WARNING

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

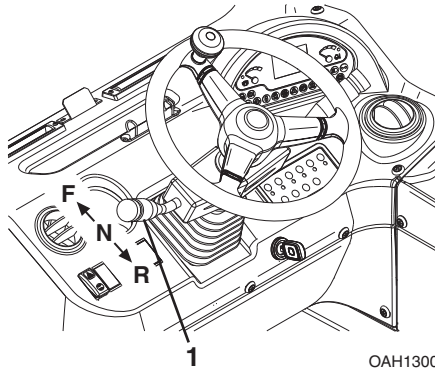
Parking Procedure

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

Section 3 - Controls and Indicators

Transmission Control Lever

Direction of Travel Selection



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

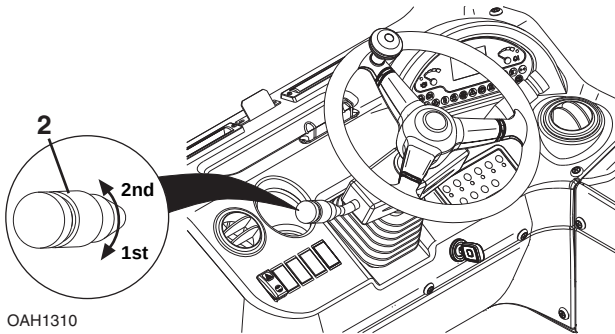
- Push lever forward for forward travel; pull lever rearward for reverse travel. Move lever to centered position for Neutral.
- Forward or reverse travel can be selected while in any gear.
- When traveling in reverse, the back-up alarm will automatically sound.
- Drive in reverse and turn only at slow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



WARNING

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

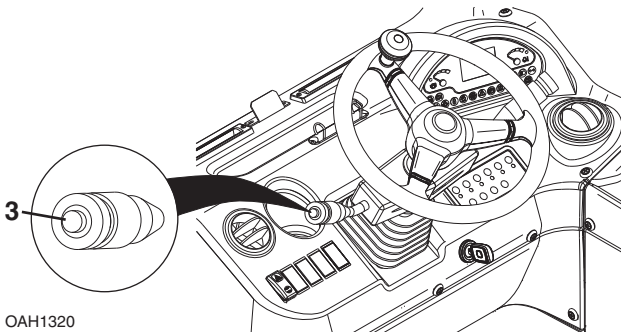
Gear Selection



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

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

Horn (619A & 723A)



Horn button (3) is located on the end of transmission control lever.

- Depress button to sound horn.

Section 3 - Controls and Indicators

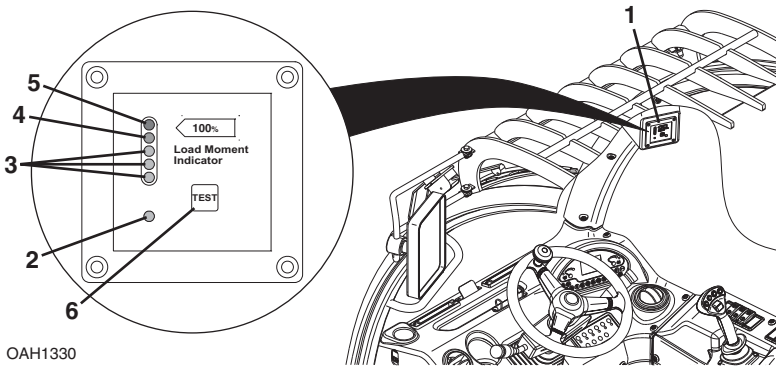
Load Stability Indicator - LSI (L2906H, 2906H & 3507H)



WARNING

TIP OVER HAZARD. The LSI considers only longitudinal stability limitations, observe all operating parameters. Failure to follow operating parameters of the telehandler could damage the equipment and/or cause tip over.

Before S/N 1160005989 excluding 1160005189, 1160005314 & 1160005414

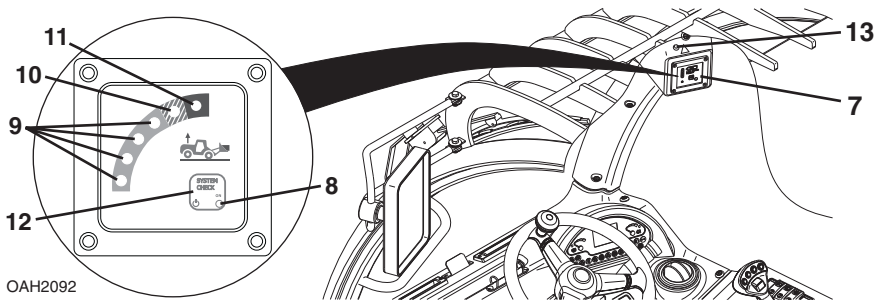


OAHI330

The LSI (1) provides visual and audible indication of forward stability limitations when machine is static on firm, level surface.

- Green LED (2) will illuminate when LSI power is on.
- When approaching forward stability limitations LEDs progressively illuminate, green (3), then yellow (4) and finally red (5).
- The warning buzzer sounds as the yellow LED illuminates.
- As the telehandler reaches forward stability limitations and the red LED illuminates, the automatic function cut-out is activated. Certain functions are disabled (i.e. boom lift, extend, etc). Retract boom to re-enable functions.
- Test LSI (6) at the beginning of each work shift. See Section 8 - Additional Checks.

S/N 1160005989 & After including 1160005189, 1160005314 & 1160005414



The LSI (7) provides visual and audible indication of forward stability limitations when machine is static on firm, level surface.

- Green LED (8) will illuminate when LSI power is on.
- When approaching forward stability limitations LEDs progressively illuminate, green (9), then orange (10) and finally red (11).
- If the red LED illuminates the warning buzzer also sounds.

The LSI has two modes:

Active Mode

- As the telehandler reaches forward stability limitations and the red LED (11) illuminates, the automatic function cut-out is activated. All boom, frame level and outrigger functions are disabled except for boom retract (CE & AUS) and boom lift (CE). Retract boom to re-enable functions.
- In some instances the LSI system may slow down or stop boom functions if operated close to forward stability limitations. When LEDs begin to flash, certain functions can not be operated. Retract boom and/or return the joystick to neutral position for a short period to allow system to reset and LEDs to stop flashing before proceeding with operation.

Passive Mode

- The orange LED (13) illuminates when either of the following occurs:
 - The boom is fully retracted.
 - The park brake is not applied and transmission control lever is in the forward or reverse position.
- When approaching forward stability limitations, visual and audible indication is provided and the automatic function cut-out and/or slow down feature is disabled.

Section 3 - Controls and Indicators

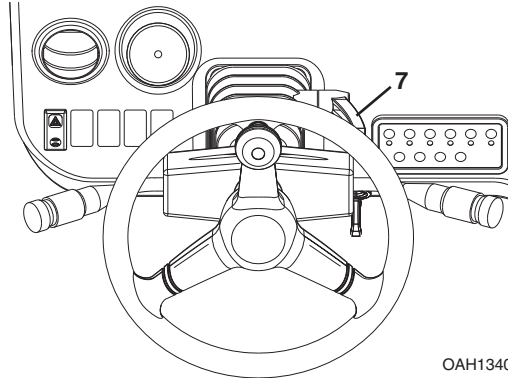
- Travel in accordance with the requirements set forth in Section 1 - General Safety Practices.
- Test LSI (12) at the beginning of each work shift. See Section 8 - Additional Checks.
- When placing a load, ensure axles are not fully steered in either direction.



WARNING

TIP OVER HAZARD. If the green, orange and red LEDs flash and warning buzzer sounds, retract and lower boom immediately. Determine cause and correct before continued use.

Steering Column Adjuster



OAH1340

- Follow “*Shut-Down Procedure*” on page 4-3.
- Turn lever (7) counterclockwise to unlock.
- Place steering column in desired position.
- Turn lever clockwise to lock.



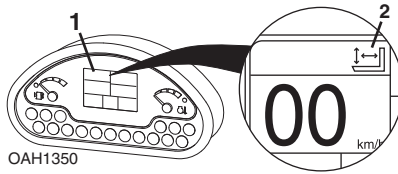
WARNING

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

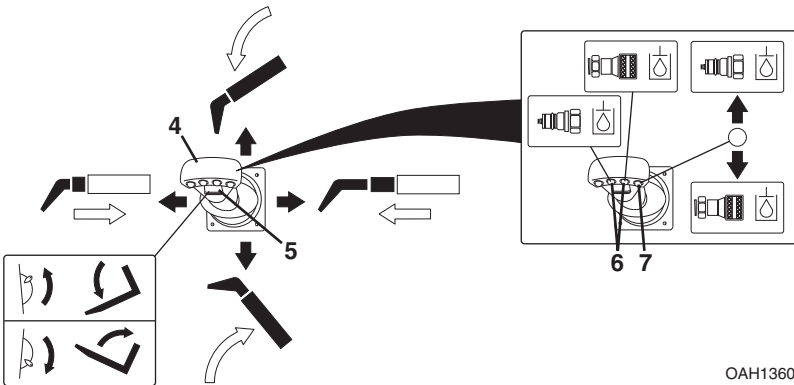
Section 3 - Controls and Indicators

Joystick

Lift Joystick Pattern



Verify the lift joystick pattern icon (2) is active on the display (1).



The joystick (4) controls the boom, attachment and auxiliary hydraulic functions.

Boom Functions

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



WARNING

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

Attachment Functions

Attachment tilt is controlled by the roller switch (5).

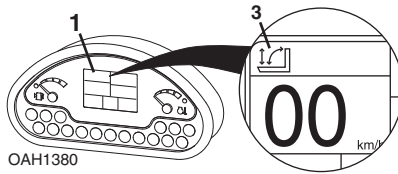
- Push the roller switch up to tilt attachment down; push the roller switch down to tilt attachment up.

Auxiliary Hydraulic Functions

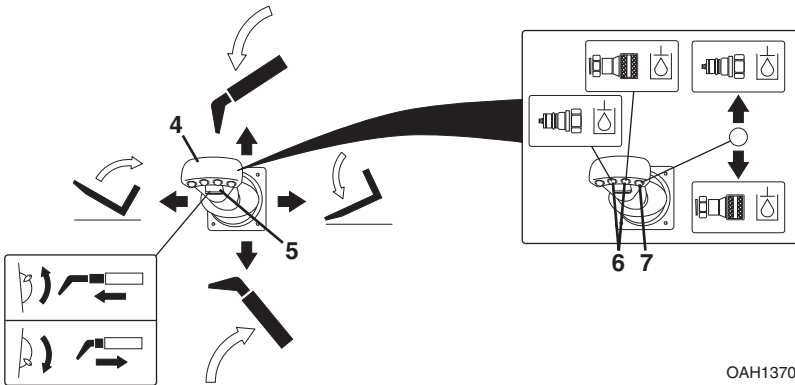
Auxiliary Hydraulics buttons (6 & 7) control functions of attachments that require hydraulic supply for operation. Buttons (6) can be used simultaneously with normal boom attachment functions. Button (7) must be used independently of boom lift/lower functions. See Section 5 - Attachments and Hitches for approved attachments and control instructions.

Section 3 - Controls and Indicators

Loader Joystick Pattern



Verify the loader joystick pattern icon (3) is active on the display (1).



The joystick (4) controls the boom, attachment and auxiliary hydraulic functions.

Boom Functions

- Move the joystick back to lift boom; move joystick forward to lower boom.
- Extend/retract is controlled by the roller switch (5). Push roller switch up to extend boom; push roller switch down to retract boom.
- The speed of boom functions depends upon the amount of joystick travel in corresponding direction. Increasing engine speed will also increase function speed.
- For two simultaneous boom functions, move the joystick between quadrants. For example; moving the joystick forward and to the left will lower boom and tilt attachment up simultaneously.



WARNING

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

Attachment Functions

Attachment tilt is controlled by the joystick.

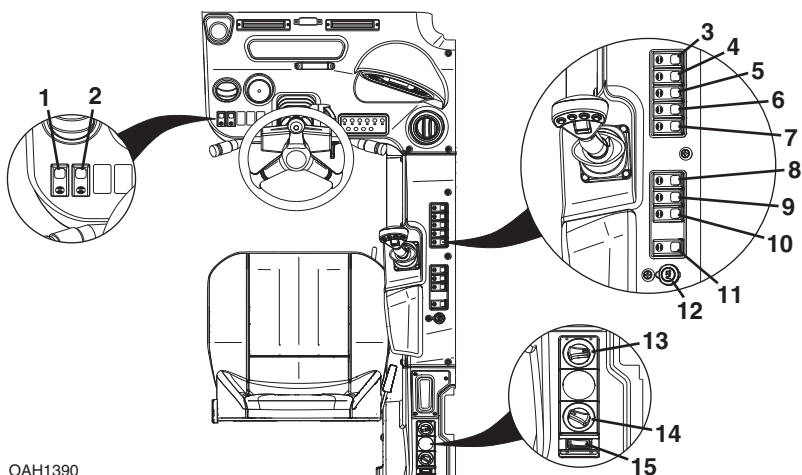
- Move joystick right to tilt down; move joystick left to tilt up.

Auxiliary Hydraulic Functions

Auxiliary Hydraulics buttons **(6 & 7)** control functions of attachments that require hydraulic supply for operation. Buttons **(6)** can be used simultaneously with normal boom attachment functions. Button **(7)** must be used independently of boom lift/lower functions. See Section 5 - Attachments and Hitches for approved attachments and control instructions.

Section 3 - Controls and Indicators

Front and Side Console Switches



OAH1390

1. Hazard Light Switch (if equipped): On/Off switch.
2. Hydraulic Quick Attach Switch (if equipped): Used in conjunction with the joystick to hydraulically lock or unlock an attachment. See page 5-7.
3. Beacon Light Switch (if equipped): On/Off switch.
4. Parking Lights and Driving Lights Switch (L2906H, 2906H & 3507H): Three position switch. Move switch to middle position to turn on parking lights. Push right side of switch to turn on driving lights. Push left side of switch to turn off all lights.
Front Wiper Switch (619A & 723A, if equipped): Three position switch. Move switch to middle position to turn on front wiper. Push right side of switch and hold to activate wiper fluid. Push left side of switch to turn off front wiper.
5. Rear Wiper Switch (if equipped): Three position switch. Move switch to middle position to turn on rear wiper. Push right side of switch and hold to activate wiper fluid. Push left side of switch to turn off rear wiper.
6. Continuous Auxiliary Hydraulics Switch:
 - a. Push right side of switch for continuous operation of hydraulic powered attachments. Set continuous auxiliary hydraulic level (-100% to 100%) within 10 seconds using the keypad up/down arrow buttons (see page 3-8). See Section 5 - Attachments and Hitches for approved attachments and control instructions.
 - b. Relieves auxiliary hydraulic circuit pressure. See page 5-12.
7. Boom Auxiliary Electric Switch (if equipped): On/Off switch.
8. Boom Work Lights Switch (if equipped): On/Off switch.

Section 3 - Controls and Indicators

- 9. Front Work Lights Switch (if equipped): On/Off switch.
- 10. Rear Work Lights Switch (if equipped): On/Off switch.
- 11. Front/Rear Auxiliary Hydraulics Switch (if equipped): Depress right side of switch to enable rear auxiliary hydraulics. Depress left side of switch to enable front auxiliary hydraulics.
- 12. Power Outlet: 12V receptacle.

Heater and Air Conditioning Controls (if equipped)

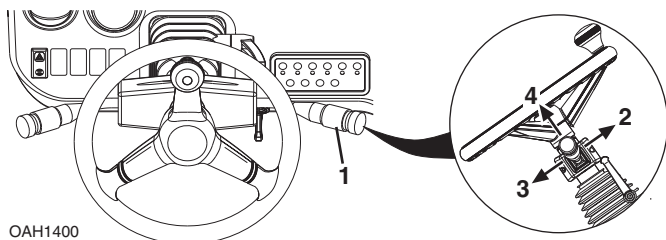
- 13. Fan Speed Switch: Four-position rotary switch.
- 14. Temperature Control Switch: Adjustable rotary switch.
- 15. Air Conditioning Switch: On/Off switch.

Section 3 - Controls and Indicators

Accessory Control Lever (L2906H, 2906H & 3507H)

The accessory control lever (1) operates the turn signals, front windshield wiper and horn.

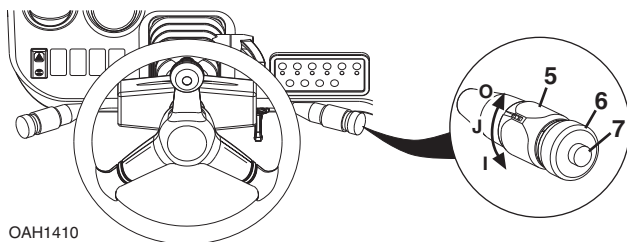
Turn Signals and Low/High Beam Headlights



OAH1400

- 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.
- Pull lever up (4) to switch between low and high beam headlights.

Front Windshield Wiper and Horn



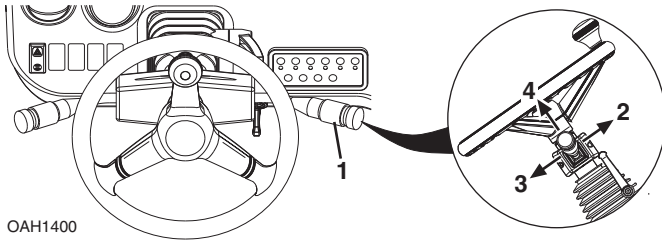
OAH1410

- Turn the twist grip (5) to the first position (J) for intermittent wiper operation.
- Turn the twist grip to the second position (I) for continuous wiper operation.
- Turn the twist grip to the OFF position (O) to turn off the wiper.
- Depress end of lever (6) to activate wiper fluid.
- Depress button (7) to sound horn.

Accessory Control Lever (619A & 723A, if equipped)

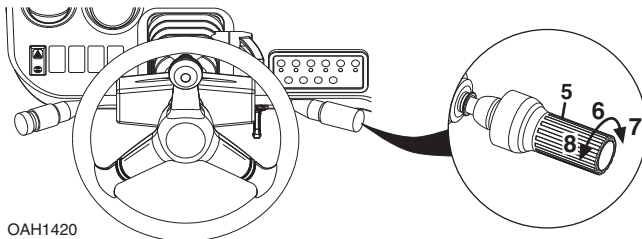
The accessory control lever (1) operates the turn signals, parking lights and headlights.

Turn Signals and Low/High Beam Headlights



- 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.
- Pull lever up (4) to switch between low and high beam headlights.

Parking Lights and Headlights

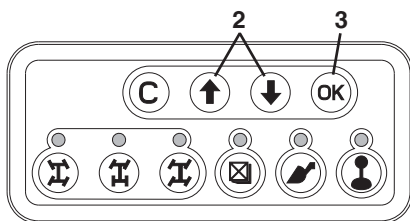
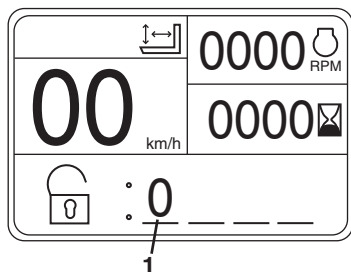


- Turn the twist grip (5) to the first position (6) to turn on parking lights.
- Turn the twist grip to the second position (7) to turn on headlights.
- Turn the twist grip clockwise to the OFF position (8) to turn all lights off.

Section 3 - Controls and Indicators

3.3 ANTI THEFT

Machines with the anti theft feature active require entering a numeric code before operation to prevent unauthorized use. Code entry is accomplished using the display and keypad.



OAH1430

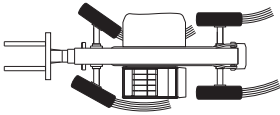
1. Turn ignition switch to position I. If anti theft is active, the display (1) will prompt the operator for a numeric code.
2. Use the up/down arrow buttons (2) to select the first digit.
3. Depress OK button (3) to confirm and move to the next digit.
4. Continue until the code is complete.
5. If an incorrect code is entered, the buzzer will sound briefly and the display will prompt the operator again for the numeric code.
6. If the correct code is entered, normal start up can continue.

If the anti theft feature is active and the current access code is not known, it may be viewed or changed by the machine owner in Operator Tools Menu (level 2 password required). See Service Manual for information.

3.4 STEER MODES

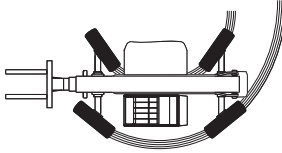
Three steer modes are available for operator use.

2-Wheel Front Steer

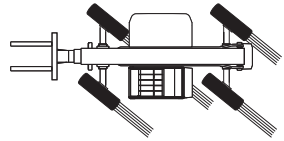


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4-Wheel Circle Steer



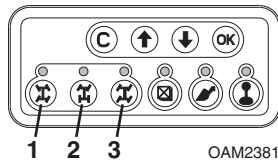
4-Wheel Crab Steer



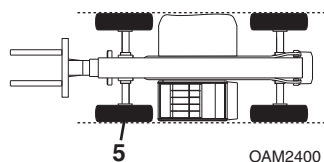
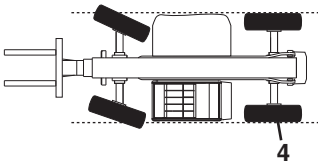
Note: 2-Wheel Front Steer mode is required for travel on public roads.

Manual Steering Alignment Mode Change

If manual steering alignment mode is active under the Operator Tools menu (see page 3-7), use the following procedure for 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.



OAM2400

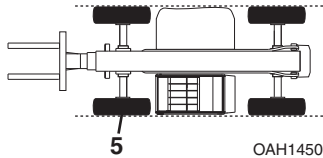
2. Turn the steering wheel until the left rear wheel (4) is aligned with the side of the machine.
3. Select front steer mode (2).
4. Turn the steering wheel until the left front wheel (5) is aligned with the side of the machine.
5. Wheels are now aligned. Select desired steer mode.

Section 3 - Controls and Indicators

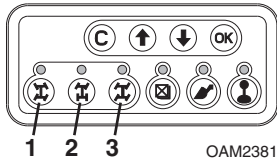
Rear Wheel Assisted Steering Alignment Mode Change

If rear wheel assisted steering alignment mode is active under the Operator Tools menu (see page 3-7), use the following procedure for steer mode change.

1. Bring machine to a stop using service brake.

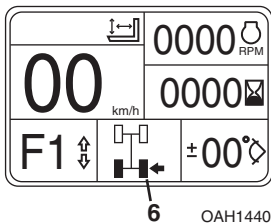


2. Turn the steering wheel until the left front wheel (5) is aligned with the side of the machine. This step can be skipped if changing to front steer mode.



3. Select desired steer mode: circle steer (1), front steer (2) or crab steer (3).

Note: Selected steer mode LED will flash and display will show steering alignment screen until the change is complete. After steering alignment is complete, steer mode LED will illuminate solid.

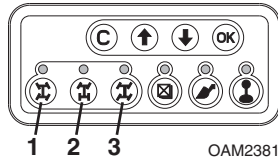


4. Turn the steering wheel until the rear wheels are centered (6). This step will be skipped if changing from front steer mode and rear wheels are already centered.
5. Wheels are now aligned and steer mode change is complete (9).

All Wheel Assisted Steering Alignment Mode Change (if equipped)

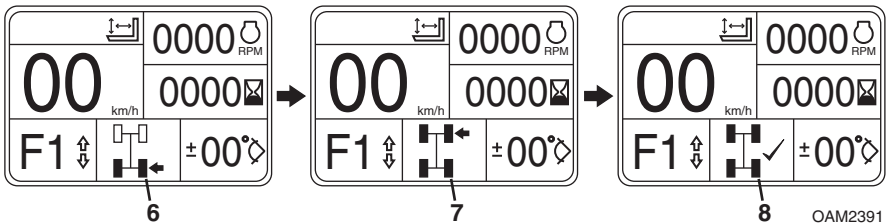
If all wheel assisted steering alignment mode is active under the Operator Tools menu (see page 3-7), use the following procedure for steer mode change.

1. Bring machine to a stop using service brake.



2. Select desired steer mode: circle steer (1), front steer (2) or crab steer (3).

Note: Selected steer mode LED will flash and display will show steering alignment screens until the change is complete. After steering alignment is complete, steer mode LED will illuminate solid.



3. Turn the steering wheel until the rear wheels are centered (6). This step will be skipped if changing from front steer mode and rear wheels are already centered.
4. Turn the steering wheel until the front wheels are centered (7). This step will be skipped if changing to front steer mode.
5. Wheels are now aligned and steer mode change is complete (8).

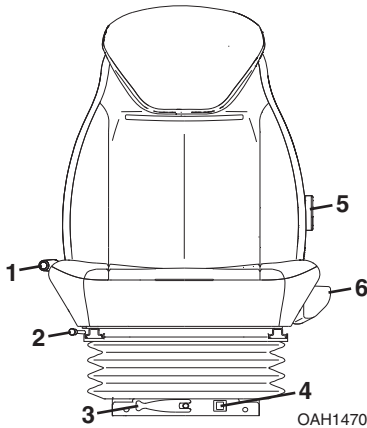
Section 3 - Controls and Indicators

3.5 OPERATOR SEAT

Adjustments

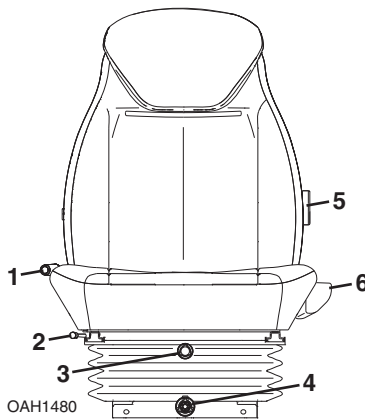
Prior to starting engine adjust seat for position and comfort.

Mechanical Suspension Seat



1. Backrest Angle: Use handle to adjust backrest angle.
2. Fore/Aft: Use handle to move seat fore and aft.
3. Suspension: Use handle to adjust suspension to the appropriate weight setting.
4. Weight: Displays current weight setting.
5. Lumbar Support: Use knob to adjust lumbar support.
6. Seat Belt: Always fasten seat belt during operation. If required, a 76 mm (3 in) seat belt is available.

Pneumatic Suspension Seat



1. Backrest Angle: Use handle to adjust backrest angle.
2. Fore/Aft: Use handle to move seat fore and aft.
3. Suspension: Use knob to adjust suspension to the appropriate weight setting.
4. Height: Use knob to adjust height to the appropriate setting.
5. Lumbar Support: Use know to adjust lumbar support.
6. Seat Belt: Always fasten seat belt during operation. If required, a 76 mm (3 in) seat belt is available.

Section 3 - Controls and Indicators

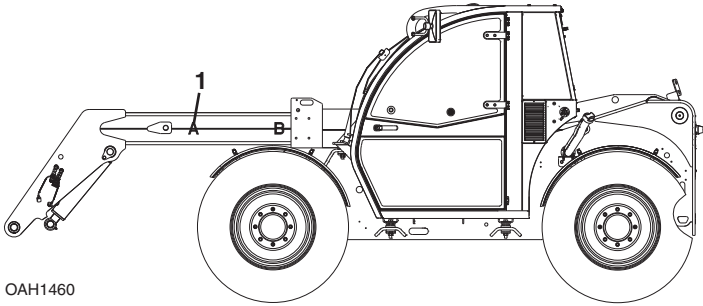
Seat Belt



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.

3.6 BOOM EXTENSION INDICATORS



- Boom extension indicators (**1**) are located on the left side of the boom. Use these indicators to determine boom extension when using the capacity chart (see *“Use of the Capacity Chart”* on page 5-3).

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SECTION 4 - OPERATION

4.1 ENGINE

Starting the Engine

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

1. Make sure all controls are in "Neutral" and all electrical components (lights, heater, defroster, etc.) are turned off. Apply park brake.
2. Turn ignition switch to position I. If active, enter anti theft code.
3. If temperature is below 32° C (90° F), turn ignition to position II for engine preheat and hold up to twelve seconds.
4. 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.
5. After engine starts, observe engine oil pressure indicator. If indicator remains on for more than five seconds, stop engine and determine cause before restarting engine.
6. Warm up engine at approximately 1/2 throttle.

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



WARNING

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



WARNING

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

Section 4 - Operation

Battery Boosted Starting



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

Shut-Down Procedure

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

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

Section 4 - Operation

4.2 OPERATING WITH A NON-SUSPENDED LOAD

Lift Load Safely

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



WARNING

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

- Know the rated load capacities (see 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.

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 and Hitches.

Leveling Procedure

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

Important things to remember:

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

Section 4 - Operation

Placing 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 5-3.
- Align forks at the level load is to be placed, then extend boom slowly until load is just above area where it is to be placed.
- Lower the boom until the load rests in position and the forks are free to retract.

Disengaging 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

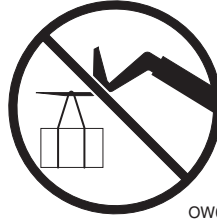
- Note the conditions of the terrain. Adjust travel speed and reduce amount of load if conditions warrant.
- Avoid lifting double-tiered loads.
- Make sure load is clear of any adjacent obstacles.
- **NEVER** operate telehandler without a proper and legible capacity chart in the operator cab for the 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 5-3. for proper lifting guidelines in addition to the appropriate capacity chart in the operator cab.

Section 4 - Operation

Transporting a Suspended Load



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

Important things to remember:

- Ensure the boom is fully retracted.
- Never raise the load more than 300 mm (11.8 in) above ground surface or the boom more than 45°.
- The combination of side tilt and load could cause the telehandler to tip over.
- 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, 1.4 kph (0.9 mph), 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.
4. Move boom so load is no more than 300 mm (11.8 in) 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 5-3.
- Align load at the level load is to be placed, then position boom slowly until load is just above area where it is to be placed.
- Ensure that the guide men and operator remain in constant communication (verbal or hand) when placing the load.

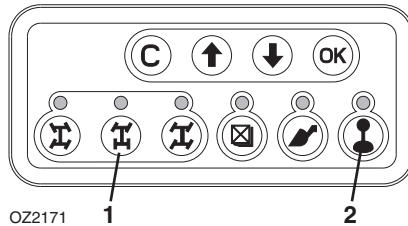
Disengaging a Suspended Load

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

Section 4 - Operation

4.4 ROAD OPERATION (L2906H, 2906H & 3507H)

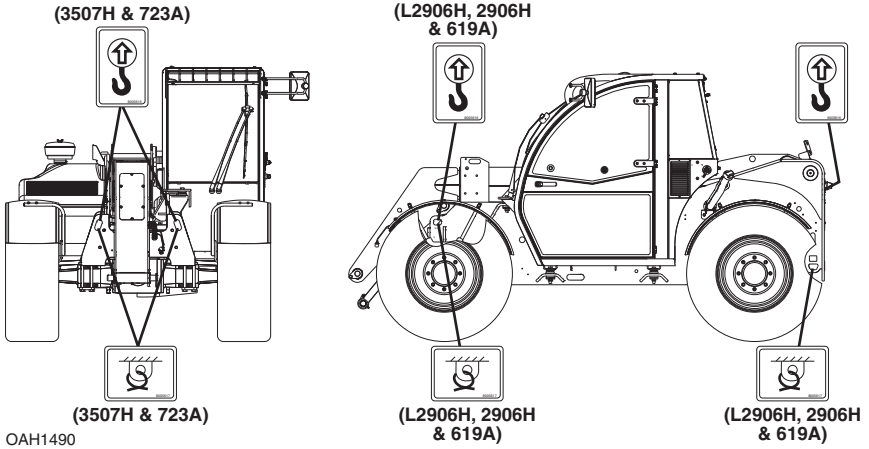
1. Preparation
 - a. Remove load from attachment.
 - b. Remove any large amounts of dirt from machine.
 - c. Check lights and mirrors and adjust if necessary.
 - d. Safety equipment to be carried: Warning Triangle, First Aid Kit and Wheel Chock.
2. Lower boom. Front edge of attachment should be approximately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



5. Depress button (2) to deactivate joystick function and disable all joystick controlled functions. Joystick function LED will go out.
6. Deactivating the joystick function automatically changes steer mode to front wheel steering (1). See "Steer Modes" on page 3-27 for details.
7. Machine is now ready for road operation.

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

4.5 LOADING AND SECURING FOR TRANSPORT



Tiedown

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

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

Section 4 - Operation

Lifting

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

SECTION 5 - ATTACHMENTS AND HITCHES

5.1 APPROVED ATTACHMENTS

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

- The attachment 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 a 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.

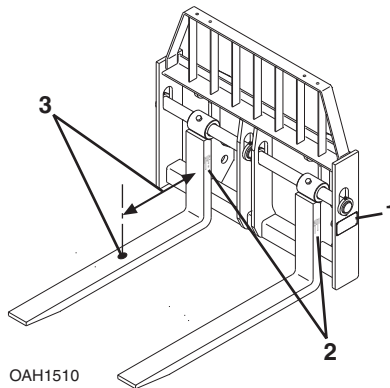


WARNING

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 and Hitches

5.3 TELEHANDLER/ATTACHMENT/FORK CAPACITY



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

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

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

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

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



WARNING

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

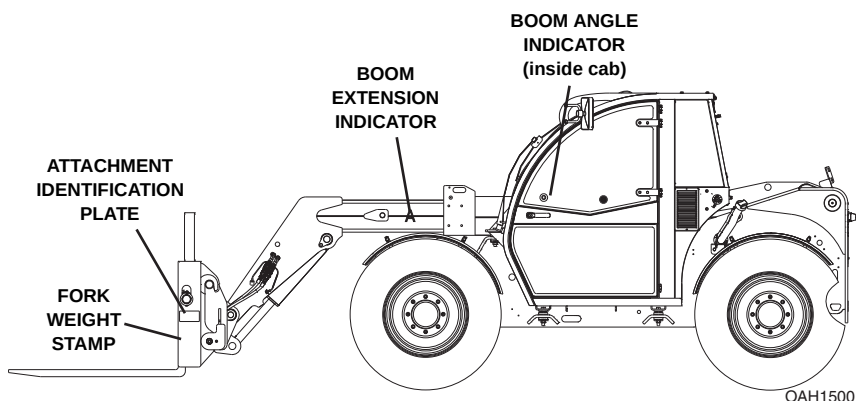
5.4 USE OF THE CAPACITY CHART

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

1. 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 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.

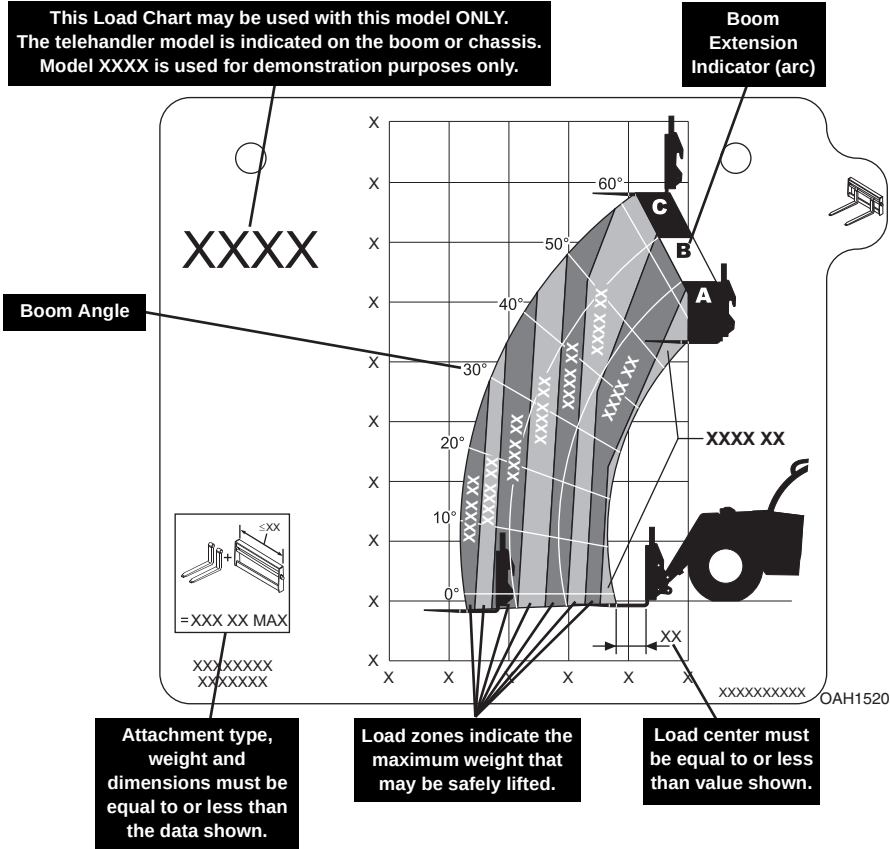
The number in the load zone must be equal to or greater than the weight of the load to be lifted. Determine the limits of the load zone on the capacity chart and keep within these limits.

Capacity Indicator Locations



Section 5 - Attachments and Hitches

Sample Capacity Chart



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.

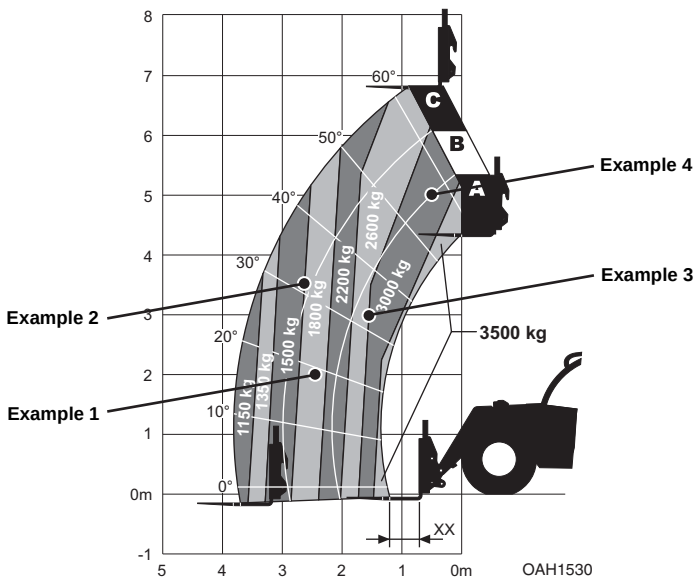
Example

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

- The attachment style, weight, dimensions and load center match the attachment data on the capacity chart.
- The capacity chart is clearly marked for model xxxx and corresponds with machine configuration being used.

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

	Load Weight	Distance	Height	OK to Lift
1	1600 kg (3527 lb)	2,5 m (8.2 ft)	2,0 m (6.6 ft)	Yes
2	1800 kg (3968 lb)	2,7 m (8.9 ft)	3,5 m (11.5 ft)	NO
3	2600 kg (5732 lb)	1,6 m (5.2 ft)	3,0 m (9.8 ft)	Yes
4	3200 kg (7055 lb)	0,5 m (1.6 ft)	5,0 m (16.4 ft)	NO

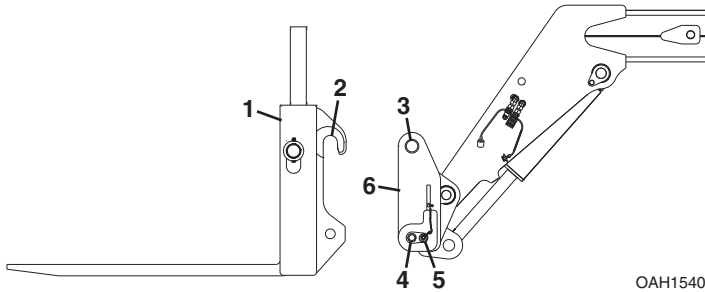


Note: This is a sample capacity chart **only!** **DO NOT** use this chart, use the one located in your operator cab.

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5.5 ATTACHMENT INSTALLATION

JLG Quick Attach



1. Attachment
2. Attachment Pin Recess
3. Attachment Pin
4. Lock Pin
5. Retainer Pin (mechanical Quick Attach)
6. Quick Attach (attachment tilt control in cab, see page 3-18 or page 3-20)



WARNING

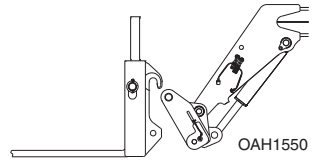
CRUSH HAZARD. Always be certain that carriage or attachment is properly positioned on boom and is secured by lock pin and retainer pin. Failure to ensure proper installation could permit carriage/attachment/load to disengage.

Section 5 - Attachments and Hitches

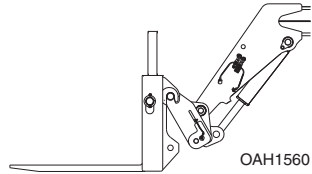
Mechanical Quick Attach

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

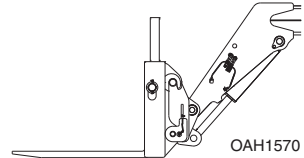
1. Tilt quick attach forward to provide clearance. Check to be sure lock pin and retainer pin are out.



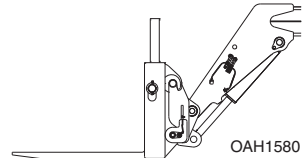
2. Align attachment pin with recess in attachment. Raise boom slightly to engage attachment pin in recess.



3. Tilt quick attach back to engage attachment.



4. Insert lock pin and secure with retainer pin.



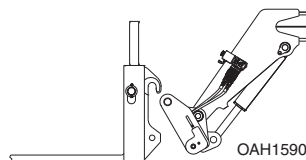
5. If attachment is equipped, connect auxiliary hydraulic hoses. See “*Hydraulic Operated Attachment*” on page 5-12.

Section 5 - Attachments and Hitches

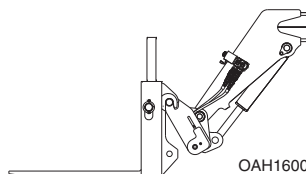
Hydraulic Quick Attach

This installation procedure is designed for one-person operation.

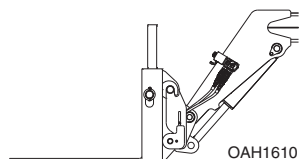
1. Tilt quick attach forward to provide clearance.
Check to be sure lock pin is disengaged.



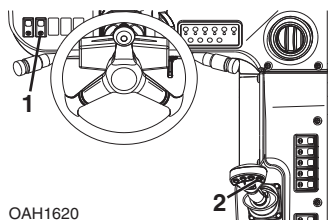
2. Align attachment pin with recess in attachment.
Raise boom slightly to engage attachment pin in recess.



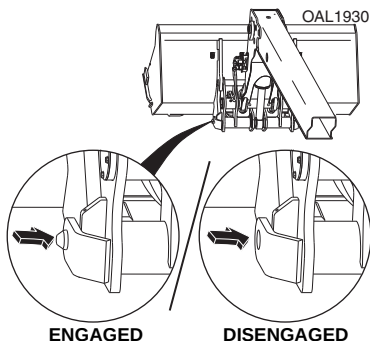
3. Tilt quick attach back to engage attachment.



4. Press and hold switch (1) and button (2), at the same time move the joystick forward to engage the quick attach pin or move the joystick back to disengage the quick attach pin.



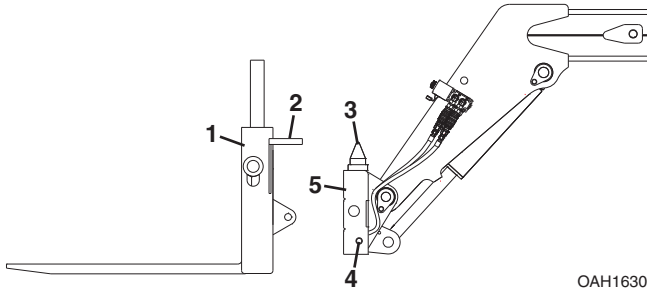
5. Raise boom to eye level and visually check that the quick attach pin protrudes through the attachment hole. If the pin does not protrude through the hole, place the attachment on the ground and return to step 2.



6. If attachment is equipped, connect auxiliary hydraulic hoses. See "Hydraulic Operated Attachment" on page 5-12.

Section 5 - Attachments and Hitches

JD Quick Attach



1. Attachment
2. Attachment Point Opening
3. Quick Attach Point
4. Lock Pin
5. JD Quick Attach (attachment tilt control in cab, see page 3-18 or page 3-20)



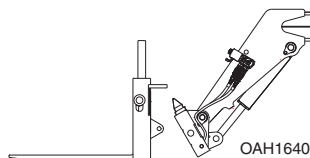
WARNING

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

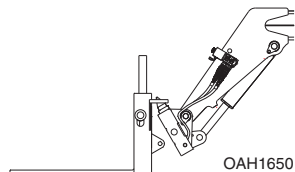
Section 5 - Attachments and Hitches

This installation procedure is designed for one-person operation.

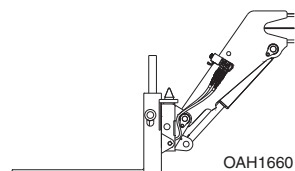
1. Tilt quick attach forward to provide clearance.
Check to be sure lock pin is disengaged.



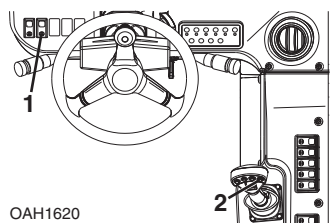
2. Align coupler point with opening in attachment.
Raise boom slightly to engage coupler point in opening.



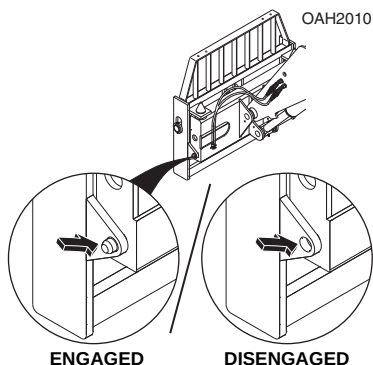
3. Tilt quick attach back to engage attachment.



4. Press and hold switch (1) and button (2), at the same time move the joystick forward to engage the JD quick attach pin or move the joystick back to disengage the JD quick attach pin.



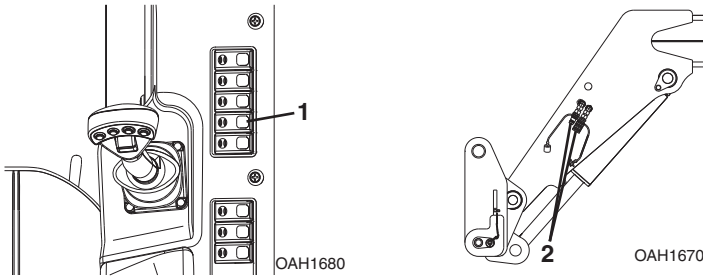
5. Raise boom to eye level and visually check that the quick attach pin protrudes through the attachment hole. If the pin does not protrude through the hole, place the attachment on the ground and return to step 2.



6. If attachment is equipped, connect auxiliary hydraulic hoses. See "Hydraulic Operated Attachment" on page 5-12.

Section 5 - Attachments and Hitches

5.6 HYDRAULIC OPERATED ATTACHMENT



1. Install attachment (see page 5-7 or 5-10).
2. Lower attachment to ground.
3. Quickly depress and release continuous auxiliary hydraulics switch (1) twice. Depress again and hold to relieve pressure at both auxiliary fittings (2).
4. Perform “*Shut-Down Procedure*” on page 4-3.
5. Connect attachment hoses to both auxiliary fittings.

5.7 ADJUSTING/MOVING FORKS

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

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

To slide forks:

1. Ensure attachment is properly installed. See “Attachment Installation” on page 5-7.
2. Elevate attachment to approximately 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 and Hitches

5.8 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 & 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 Lift joystick pattern. Refer to page 3-20 if utilizing the Loader joystick pattern.

NOTICE

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

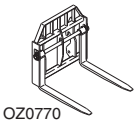
NOTICE

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.

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Section 5 - Attachments and Hitches

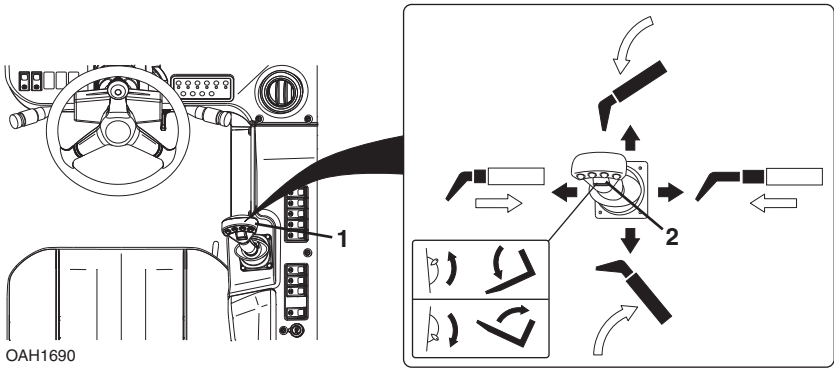
Carriage w/Forks



Description	P/N
L2906H, 2906H & 3507H	
Carriage, 1225 mm (48 in).....	1170028
JD Carriage, 1225 mm (48 in)	1001102554
Fork, Pallet 50x120x1200 mm (2x4.7x47.2 in)	2340040
Fork, Pallet 50x100x1200 mm (2x4x47.2 in)	2340041
 Carriage, 1225 mm (48 in).....	 1001107333
Fork, Pallet 50x100x1200 mm (2x4x47.2 in)	1001100911
 619A & 723A	
Carriage, 50 in (1270 mm).....	1001097283
Fork, Dual Taper 1.5x6x60 in (38x152x1524 mm)....	1001099457
Fork, Pallet 2x4x48 in (50x101x1219 mm)	1001099458
Fork, Cubing 2x2x48 in (50x50x1219 mm).....	2340037
 JD Carriage, 48 in (1225 mm)	 1001102554

Use Carriage Attachment Capacity Chart

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



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

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

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

Installation Procedure:

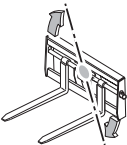
Refer to “*Attachment Installation*” on page 5-7.

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 and Hitches

Side Tilt Carriage (619A & 723A)



OAL1550

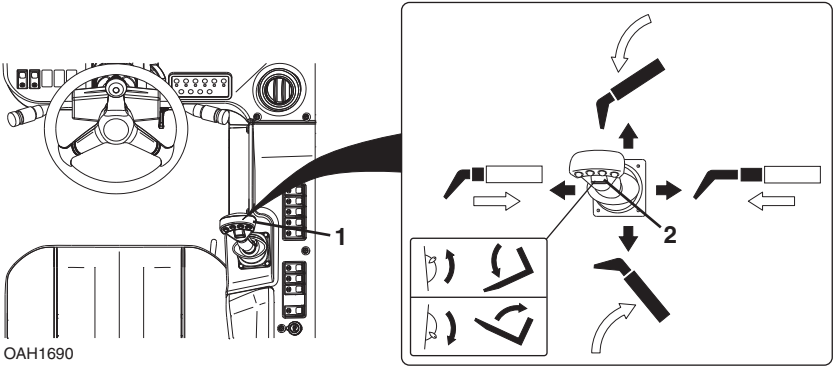
Description

P/N

Side Tilt Carriage, 48 in (1219 mm).....	1001099613
Fork, Dual Taper 1.5x6x60 in (38x152x1524 mm)....	1001099457
Fork, Pallet 2x4x48 in (50x101x1219 mm)	1001099458
Fork, Cubing 2x2x48 in (50x50x1219 mm).....	2340037

Use Side Tilt Carriage Attachment Capacity Chart

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

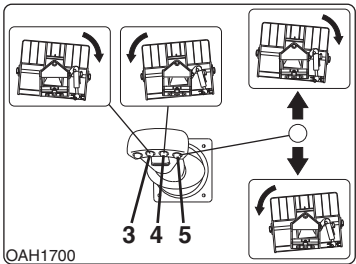


OAH1690

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

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

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



OAH1700

To Side Tilt:

The auxiliary hydraulic buttons control the carriage side tilt.

- Press and hold button (3) to side tilt right or press and hold button (4) to side tilt left.

OR

- While pressing and holding button (5), move joystick forward to side tilt right or move joystick back to side tilt left.

Installation Procedure:

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



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:

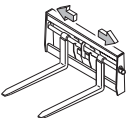
- Approach load with forks centered on load and stop telehandler.
- Level telehandler before side tilting carriage to engage load.
- Side tilt carriage to left or right to align forks with load and engage load.
- Raise load slightly and level carriage side to side.
- Travel in accordance with the requirements 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 and Hitches

Side Shift Carriage (L2906H, 2906H & 3507H)

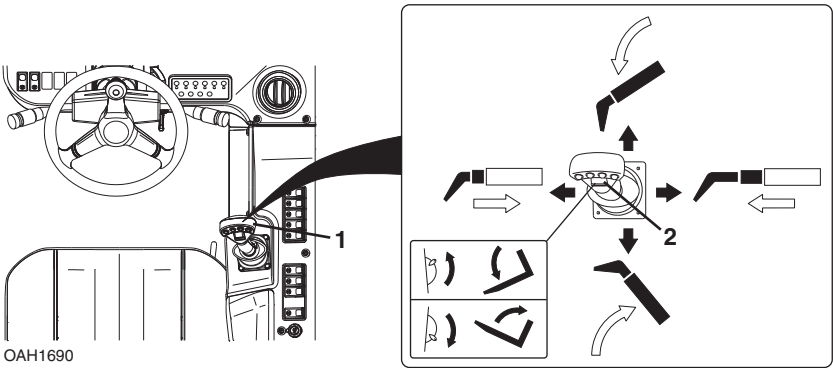


OAL1540

Description	P/N
Side Shift Carriage, 1200 mm (47.2 in)	1170002
Fork, Pallet 45x125x1200 mm (1.8x4.9x47.2 in)	2340029
Fork, Pallet 50x100x1200 mm (2x4x47.2 in)	2340030

Use Side Shift Carriage Attachment Capacity Chart

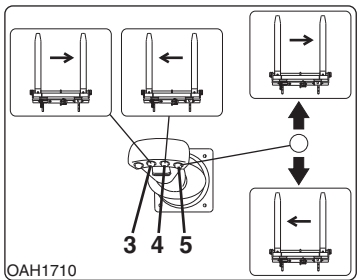
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



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

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

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



To Side Shift:

The auxiliary hydraulic buttons control the carriage side shift.

- Press and hold button (3) to side shift right or press and hold button (4) to side shift left.

OR

- While pressing and holding button (5), move joystick forward to side shift right or move joystick back to side shift left.

Installation Procedure:

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



WARNING

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

Operation:

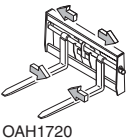
- Travel in accordance with the requirements set forth in Section 1 - General Safety Practices.

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 and Hitches

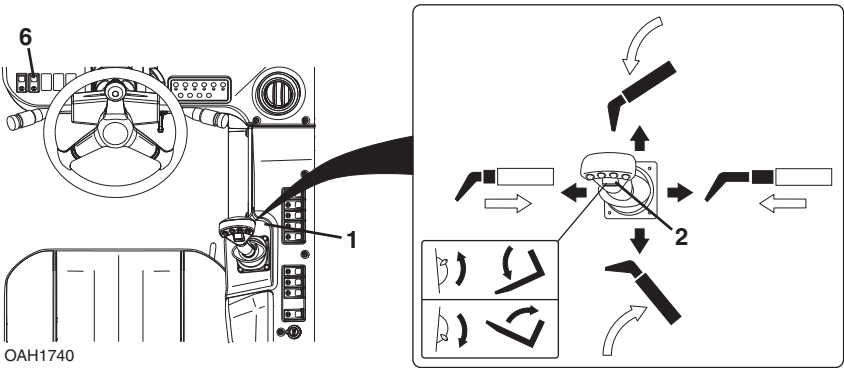
Side Shift/Fork Positioning Carriage (723A)



Description	P/N
Side Shift/Fork Positioning Carriage, 40.6 in (1031 mm).....	1001091316

Use Side Shift/Fork Positioning Carriage Attachment Capacity Chart

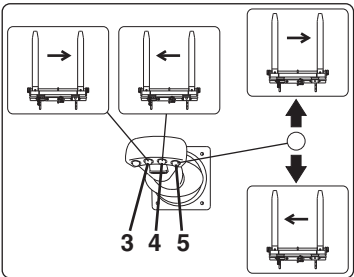
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



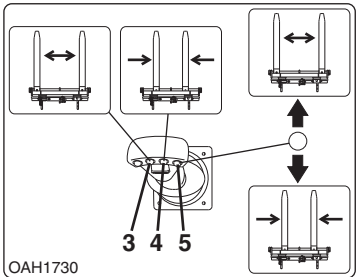
The joystick (1) controls lift/lower and extend/retract movement of the boom.

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

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



SIDE SHIFT



FORK POSITIONING

To Side Shift:

The auxiliary hydraulic buttons control the carriage side shift.

- Press and hold button (3) to side shift right or press and hold button (4) to side shift left.

OR

- While pressing and holding button (5), move joystick forward to side shift right or move joystick back to side shift left.

To Fork Position:

The second auxiliary hydraulics switch enables fork positioning.

- While pressing and holding second auxiliary hydraulics switch (6), press and hold button (3) to shift forks out or press and hold button (4) to shift forks in.

OR

- While pressing and holding second auxiliary hydraulics switch (6) and button (5), move joystick forward to shift forks out or move joystick back to shift forks in.

Installation Procedure:

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



WARNING

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

Operation:

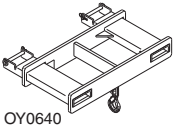
- Travel in accordance with the requirements set forth in Section 1 - General Safety Practices.

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 and Hitches

Fork Mounted Hook



Description

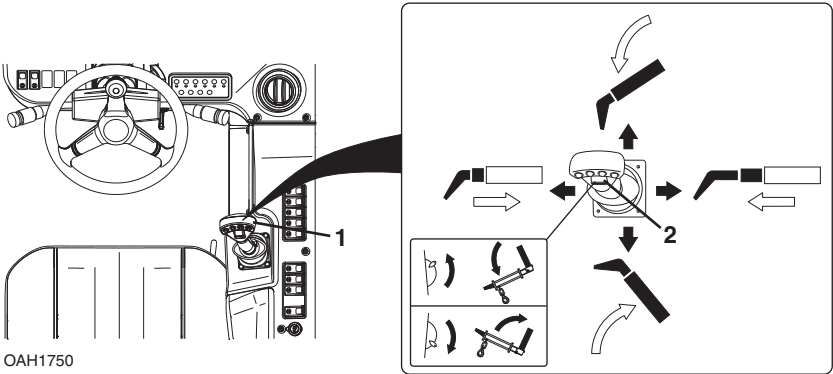
P/N

Fork Mounted Hook (L2906H, 2906H & 3507H).....	2700118
Fork Mounted Hook (619A & 723A).....	91565094

Use Fork Mounted Hook Attachment Capacity Chart

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

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



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

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

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

Installation Procedure:

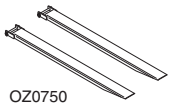
- Ensure carriage is properly installed. Refer to “Attachment Installation” on page 5-7.
- Secure the fork mounted hook to the forks by sliding the fork mounted hook onto the parent forks and install the retaining pin behind the vertical shank of the fork.

Operation:

- Pallet or lumber forks of an appropriate load rating must be used. Do not use with cubing or block forks.
- Weight of 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 and Hitches

Fork Extension (L2906H, 2906H & 3507H)



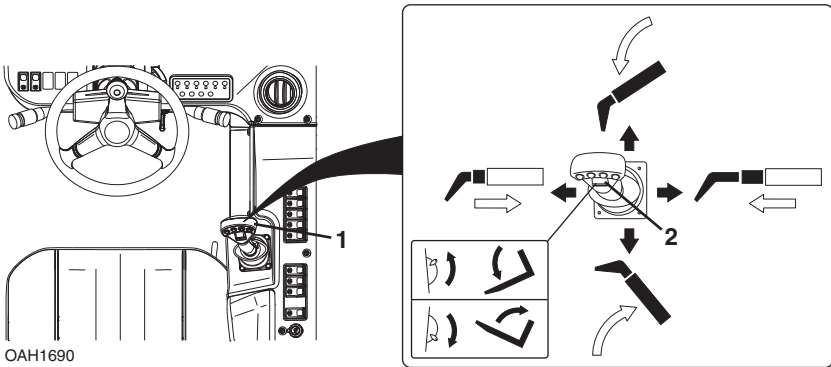
Description

Fork Extension, 50x100 mm1001112559

P/N

Use Appropriate Carriage Attachment Capacity Chart

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



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

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

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

Installation Procedure:

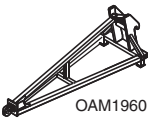
- Ensure carriage is properly installed. Refer to “*Attachment Installation*” on page 5-7.
- Ensure length and cross section of the parent fork arm is equal to or exceeds the parent fork arm blade length stamped into the fork extension.
- Secure the fork extensions to the forks by sliding the fork extensions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

Operation:

- Heavy part of load must be against carriage backrest.
- Do not allow load center of gravity to be in front of tip of the supporting fork.
- Do not pick up a load or pry materials with tip of fork extensions.

Section 5 - Attachments and Hitches

Truss Boom

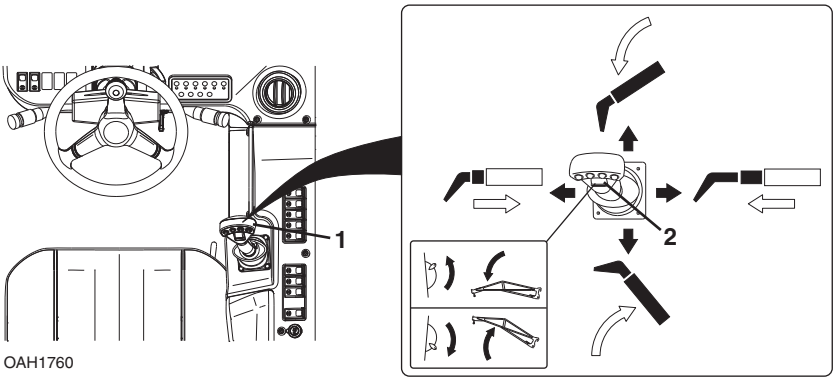


Description	P/N
Truss Boom, 3,4 m (11.1 ft) (L2906H, 2906H & 3507H)	0240063
Truss Boom, 3,6 m (11.8 ft)	0240110

Use Appropriate Truss Boom Attachment Capacity Chart

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

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



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

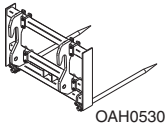
The attachment tilt roller switch (2) controls truss boom tilt.

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

Installation Procedure:

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

Carriage w/Round Fork



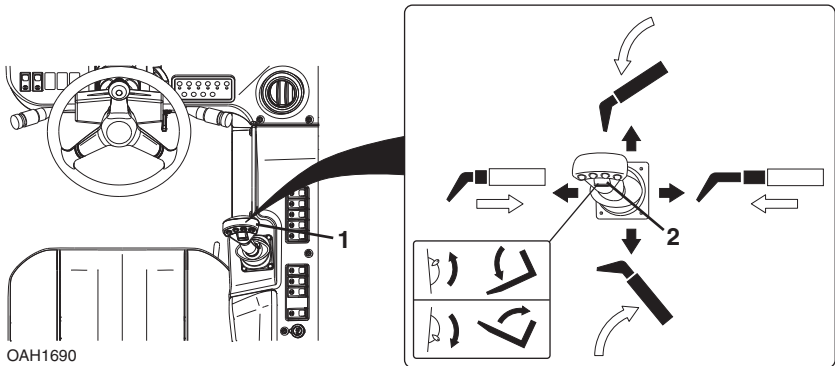
Description

Carriage w/Round Fork, 1220 mm (48 in) 2340035

P/N

Use Carriage w/Round Fork Attachment Capacity Chart

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



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

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

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

Installation Procedure:

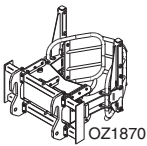
Refer to “Attachment Installation” on page 5-7.

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 and Hitches

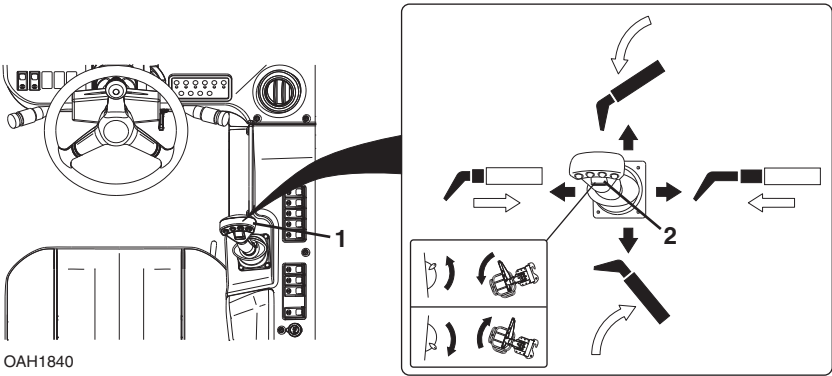
Bale Handler



Description	P/N
Bale Handler, Tube	0240117
Bale Handler, Spike	0240118

Use Bale Handler Attachment Capacity Chart

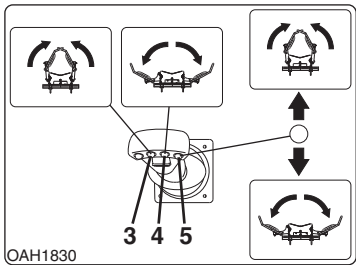
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



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

The attachment tilt roller switch (2) controls bale handler tilt.

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



To Open/Close Bale Handler:

The auxiliary hydraulic buttons control the open/close movement of the bale handler.

- Press and hold button (3) to close bale handler or press and hold button (4) to open bale handler.

OR

- While pressing and holding button (5), move joystick forward to close bale handler or move joystick back to open bale handler.

Installation Procedure:

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

Operation:

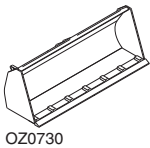
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.

Equipment Damage Precautions

- Do not use bale handler as a lever to pry material. Excessive prying forces could damage bale handler or machine structure.
- Do not attempt to load material which is hard or frozen. This could cause severe damage to quick attach or machine structure.

Section 5 - Attachments and Hitches

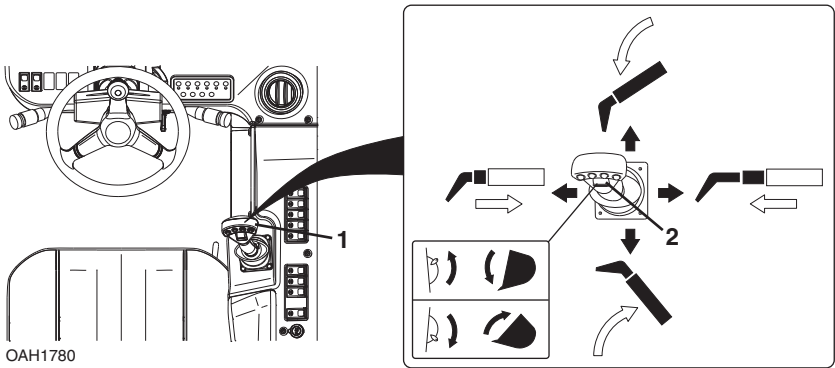
Bucket



Description	P/N
Bucket, 0,8 m ³ (1.0 yd ³) (L2906H, 2906H & 619A)	0930008
Bucket, 0,9 m ³ (1.2 yd ³)	0930015
Bucket, 1,5 m ³ (2.0 yd ³) (L2906H, 2906H & 619A)	0930009
Bucket, 1,8 m ³ (2.4 yd ³)	0930016
Bucket w/ Teeth, 0,8 m ³ (1.0 yd ³) (L2906H, 2906H & 3507H)	4805670
Bucket w/ Teeth, 1,0 m ³ (1.3 yd ³) (L2906H, 2906H & 3507H)	4802100

Use Appropriate Bucket Capacity Chart

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



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 5-7.

Operation:

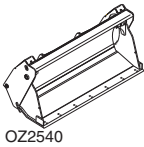
- Raise or lower boom to appropriate height for loading material from stockpile.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load and back away from pile.
- Travel in accordance with requirements set forth in 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 attach or machine structure.
- Do not use bucket for "back dragging." This could cause severe damage to quick attach.

Section 5 - Attachments and Hitches

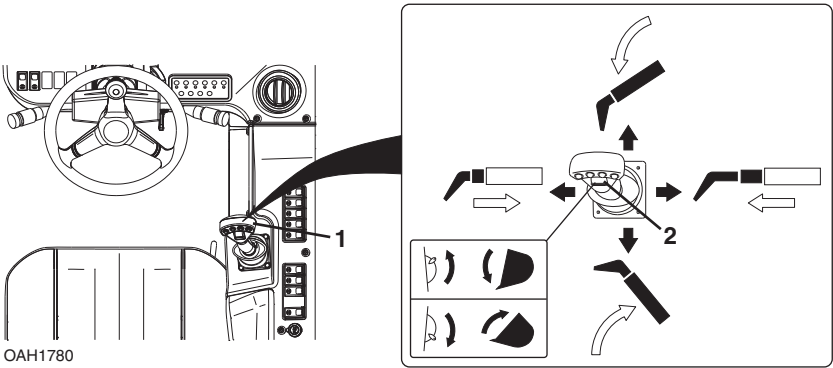
Multi-Purpose Bucket



Description	P/N
Bucket, Multi-Purpose 0,6 m ³ (0.8 yd ³) (L2906H, 2906H & 619A)	0930006
Bucket, Multi-Purpose 1,0 m ³ (1.3 yd ³)	0930003

Use Multi-Purpose Bucket Capacity Chart

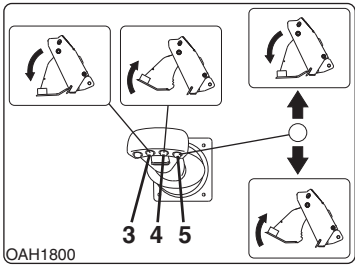
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



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 Bucket:

The auxiliary hydraulic buttons control the open/close movement of the bucket.

- Press and hold button **(3)** to close bucket or press and hold button **(4)** to open bucket.

OR

- While pressing and holding button **(5)**, move joystick forward to close bucket or move joystick back to open bucket.

Installation Procedure:

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

Operation:

- Raise or lower boom to appropriate height and close bucket 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.
- Open bucket or 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 attach or machine structure.
- Do not use bucket for "back dragging." This could cause severe damage to quick attach.

Section 5 - Attachments and Hitches

Grapple Bucket

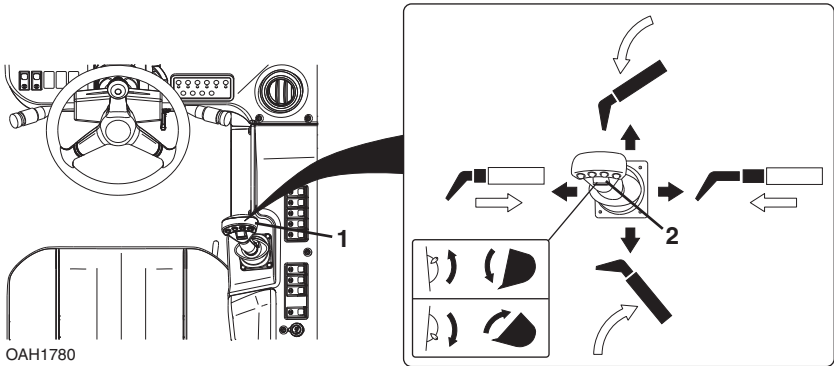


OZ1450

Description	P/N
Bucket, Grapple 0,8 m ³ (1.0 yd ³) (L2906H, 2906H & 619A)	0930005
Bucket, Grapple 1,0 m ³ (1.3 yd ³).....	0930004

Use Grapple Bucket Capacity Chart

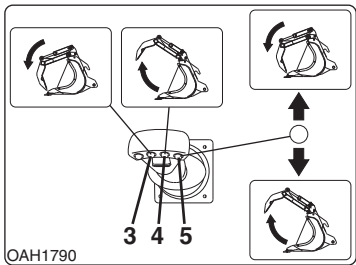
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



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.



OAH1790

To Open/Close Grapple:

The auxiliary hydraulic buttons control the open/close movement of the grapple.

- Press and hold button **(3)** to close grapple or press and hold button **(4)** to open grapple.

OR

- While pressing and holding button **(5)**, move joystick forward to close grapple or move joystick back to open grapple.

Installation Procedure:

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

Operation:

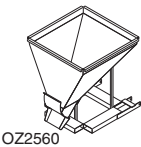
- Raise or lower boom to appropriate height and open grapple for loading material from stockpile.
- Align telehandler with face of stockpile and drive slowly and smoothly into pile to load bucket.
- Tilt bucket up far enough to retain load, close grapple and back away from pile.
- Travel in accordance 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 attach or machine structure.
- Do not use bucket for "back dragging." This could cause severe damage to quick attach.

Section 5 - Attachments and Hitches

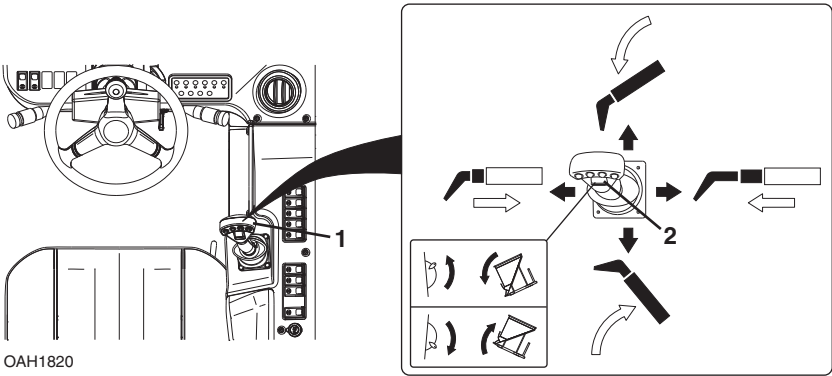
Concrete Bucket (L2906H, 2906H & 3507H)



Description	P/N
Concrete Bucket, 500 l (132 gal)	0240158

Use Appropriate Carriage Capacity Chart

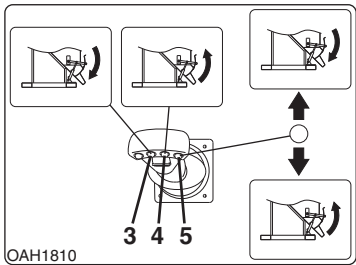
To determine maximum capacity, refer to “Telehandler/Attachment/Fork Capacity” on page 5-2.



The joystick (1) controls lift/lower 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.



Bucket Gate Control:

The auxiliary hydraulic buttons control the bucket gate.

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

OR

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

Installation Procedure:

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

Operation:

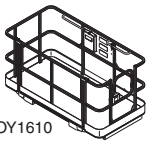
- Close bucket gate, level bucket and fully retract and lower boom to load material.
- Distribute material evenly within the bucket.
- Travel in accordance with requirements set forth in Section 1 - General Safety Practices.
- Open gate to dump load in desired location.

Equipment Damage Precautions:

- Transport the concrete bucket as low as practical at a slow speed and without rapid side to side movement.

Section 5 - Attachments and Hitches

Personnel Work Platform (619A & 723A)

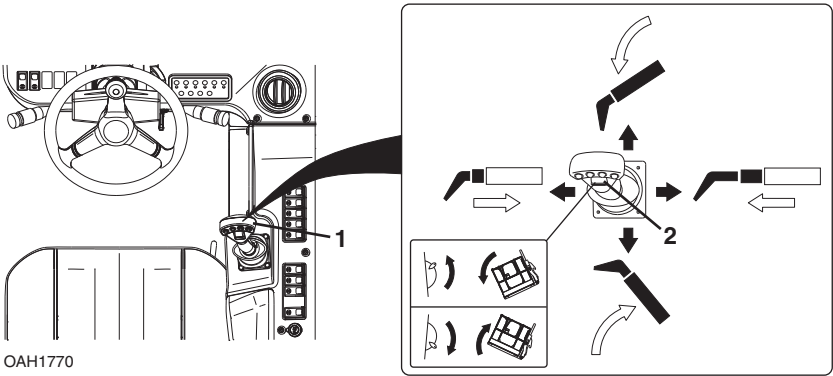


Description	P/N
Personnel Work Platform, ANSI	1001103637
Personnel Work Platform, ANSI (French)	1001103736
Personnel Work Platform, ISO	1001103730

Use Personnel Work Platform Capacity Chart

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

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 5-7.
- Secure the personnel work platform to the forks by sliding the personnel work platform onto the parent forks and install the retaining pin behind the vertical shank of the fork.

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, 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 or rearward when the platform is occupied.

Section 5 - Attachments and Hitches

5.9 HITCHES

Machines may be equipped with various types of hitches.

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

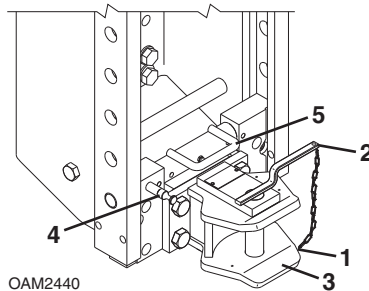
Note: *Ensure hitch is in lowest position when towing trailer. Speed and/or load may need reduced if traveling on ground which is not level.*

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

Pin Hitch - CUNA C (L2906H, 2906H & 3507H)

Maximum combined weight of trailer and load6000 kg (13 225 lb)

Maximum vertical weight at hitch interface..... 1500 kg (3305 lb)



Connecting trailer for towing:

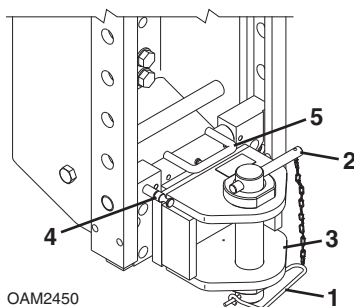
1. Remove safety pin (1) and pull pin (2) from hitch (3).
2. Align machine and tow eye of trailer.
3. Place pin through hitch and tow eye. Secure pin with safety pin.
4. If equipped, connect trailer harness to trailer plug.

Adjusting Hitch Height:

1. Pull lock pin (4) and lift handle (5) to release locking mechanism.
2. Move hitch to desired height.
3. Lower handle. When locking mechanism engages, lock pin will return to locked position

Pin Hitch - CUNA D2 (L2906H, 2906H & 3507H)

Maximum combined weight of trailer and load 12 000 kg (26 450 lb)
Maximum vertical weight at hitch interface..... 2000 kg (4400 lb)



Connecting trailer for towing:

1. Remove safety pin (1) and pull pin (2) from hitch (3).
2. Align machine and tow eye of trailer.
3. Place pin through hitch and tow eye. Secure pin with safety pin.
4. If equipped, connect trailer harness to trailer plug.

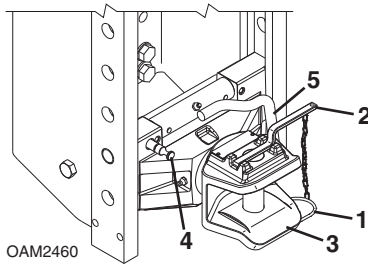
Adjusting Hitch Height:

1. Pull lock pin (4) and lift handle (5) to release locking mechanism.
2. Move hitch to desired height.
3. Lower handle. When locking mechanism engages, lock pin will return to locked position

Section 5 - Attachments and Hitches

Pin Hitch

Maximum combined weight of trailer and load12 000 kg (26 450 lb)
Maximum vertical weight at hitch interface.....2500 kg (5500 lb)



Connecting trailer for towing:

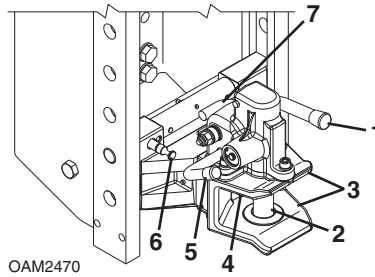
1. Remove safety pin (1) and pull pin (2) from hitch (3).
2. Align machine and tow eye of trailer.
3. Place pin through hitch and tow eye. Secure pin with safety pin.
4. If equipped, connect trailer harness to trailer plug.

Adjusting Hitch Height:

1. Pull lock pin (4) and lift handle (5) to release locking mechanism.
2. Move hitch to desired height.
3. Lower handle. When locking mechanism engages, lock pin will return to locked position

Auto Hitch

Maximum combined weight of trailer and load 12 000 kg (26 450 lb)
Maximum vertical weight at hitch interface..... 2500 kg (5500 lb)



Connecting trailer for towing:

1. Rotate lever (1) until pin (2) fully retracts.
2. Align hitch mouth (3) and tow eye of trailer.
3. Reverse machine toward trailer.
4. After the tow eye contacts trigger (4), the pin and lever will be released.
5. If equipped, connect trailer harness to trailer plug.

Note: Use lever (5) to lower pin (2) after disconnecting from trailer.

Adjusting Hitch Height:

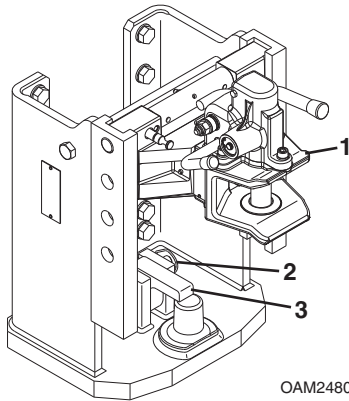
1. Pull lock pin (6) and lift handle (7) to release locking mechanism.
2. Move hitch to desired height.
3. Lower handle. When locking mechanism engages, lock pin will return to locked position

Section 5 - Attachments and Hitches

Piton Frame and Auto Hitch (L2906H, 2906H & 3507H)

Maximum combined weight of trailer and load	12 000 kg (26 450 lb)
Maximum vertical weight at hitch interface.....	2500 kg (5500 lb)

Note: See page 5-45 for Auto Hitch information.



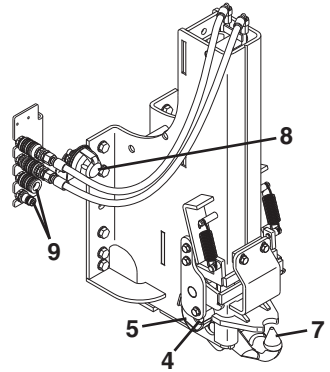
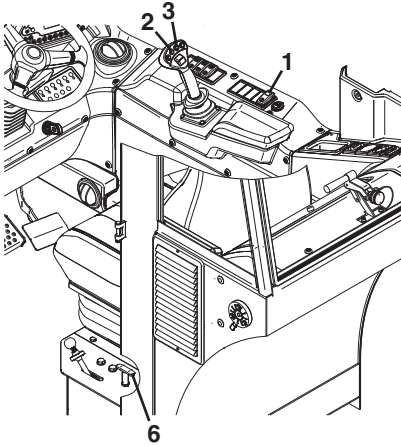
OAM2480

Connecting trailer for towing:

1. Raise Auto Hitch (1) to highest position.
2. Remove safety pin (2) and lift locking latch (3).
3. Insert safety pin to hold locking latch in the up position.
4. Align machine and tow eye of trailer.
5. Remove safety pin and lower locking latch. Secure locking latch with safety pin.
6. If equipped, connect trailer harness to trailer plug.

Hydraulic Hitch

Maximum combined weight of trailer and load 12 000 kg (26 450 lb)
Maximum vertical weight at hitch interface..... 2000 kg (4400 lb)



OAH1850

Connecting trailer for towing:

1. Depress right side of front/rear auxiliary hydraulic switch (1) to enable rear auxiliary hydraulics.
2. Press and hold joystick button (3) to raise hitch safety posts (4) off safety hooks (5).
3. Pull safety hook release (6).
4. Press and hold joystick button (2) to lower the hitch (7) to the required height.
5. Reverse machine until the hitch is under the center of the tow eye.
6. Press and hold joystick button (3) to raise hitch until the safety hooks are engaged.
7. If equipped, connect trailer harness to trailer plug (8).
8. If equipped, connect trailer brake line to trailer coupling (9).

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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 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 devices.
- 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

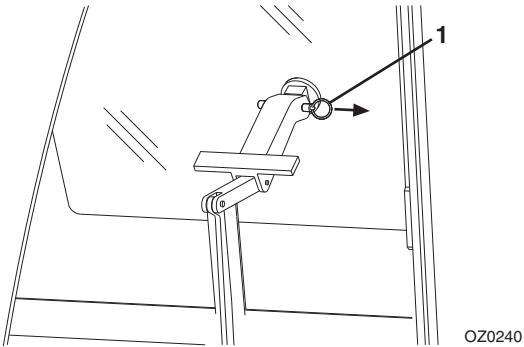
6.2 EMERGENCY LOWERING OF BOOM

In the event of total loss of engine power or hydraulic pump failure with an elevated load, the situation must be properly evaluated and dealt with on an individual basis. **Contact 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

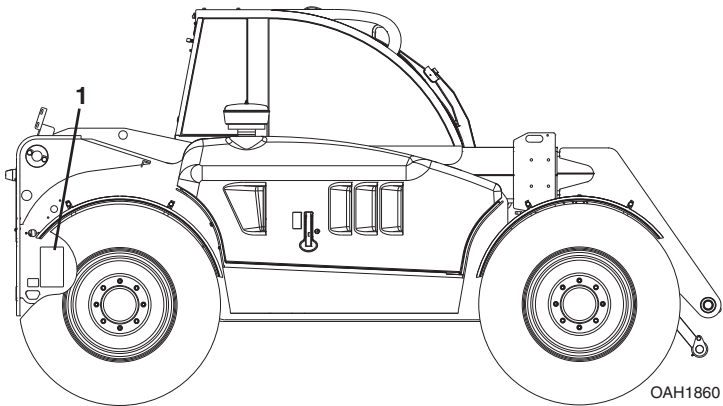


- In an emergency the rear window can be used to exit the telehandler.
- Remove the latch pin (1). The window is then free to swing open.

SECTION 7 - LUBRICATION AND MAINTENANCE

7.1 INTRODUCTION

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



The lubrication 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. For ease of filling hydraulic reservoir, use a funnel with a hose or flexible tube for best results.



WARNING

CUT/CRUSH/BURN HAZARD. Do not perform service or maintenance on the machine with the engine running, with the exception of the transmission oil level check.

7.3 SERVICE AND MAINTENANCE SCHEDULE

10, 1st 50 & 50 Hour Maintenance Schedule



EVERY
10 ⌚



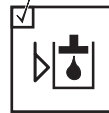
Check Fuel
Level



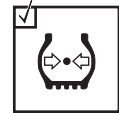
Check
Air Precleaner



Check Engine
Oil Level



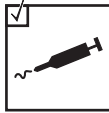
Check Hydraulic
Oil Level



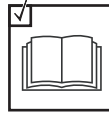
Check Tire
Condition &
Pressure



Check Brake
Fluid Level



Lubrication
Schedule

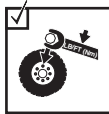


Additional
Checks -
Section 8

1st
50 ⌚



Change Engine
Oil and
Filter

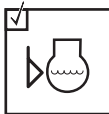


Check Wheel
Lug Nut
Torque

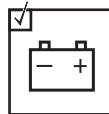
EVERY
50 ⌚



Drain Fuel/
Water
Separator



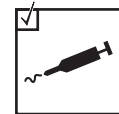
Check Engine
Coolant Level



Check
Battery



Check Washer
Fluid Level
(if equipped)



Lubrication
Schedule

OAH1870

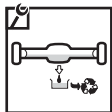
Section 7 - Lubrication and Maintenance

1st 150, 250 & 500 Hour Maintenance Schedule

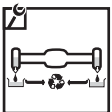


1st

150 ⌚



Change Axle
Differential Oil



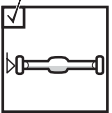
Change Wheel
End Oil

EVERY

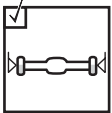
250 ⌚



Change Engine
Oil and Filter



Check Axle
Differential Oil
Level



Check Wheel
End Oil Level



Check
Fan Belt



Check Boom
Wear Pads

EVERY

500 ⌚



Change Fuel
Filters



Check Wheel
Lug Nut
Torque



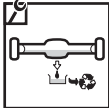
Check LSI
Calibration

OA18811

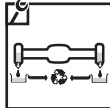
1500 Hour Maintenance Schedule



EVERY
1500 



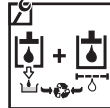
Change Axle
Differential Oil



Change Wheel
End Oil



Change
Engine Coolant



Change
Hydraulic
Fluid & Filters



Change
Hydraulic Tank
Breather



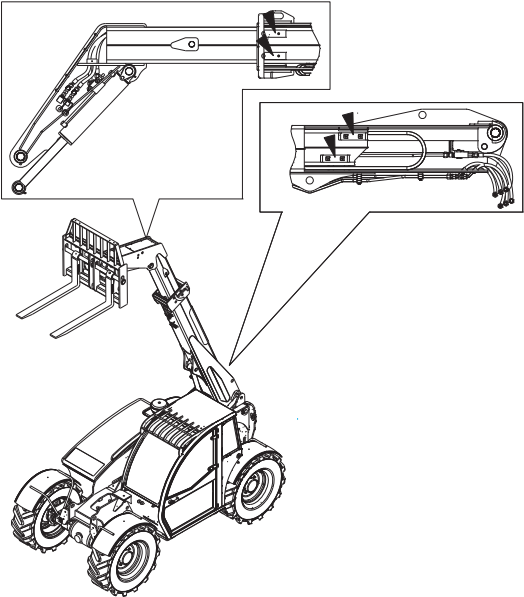
Change
Brake Fluid

OAH1890

7.4 LUBRICATION SCHEDULES

10 Hour Lubrication Schedule

EVERY
10 

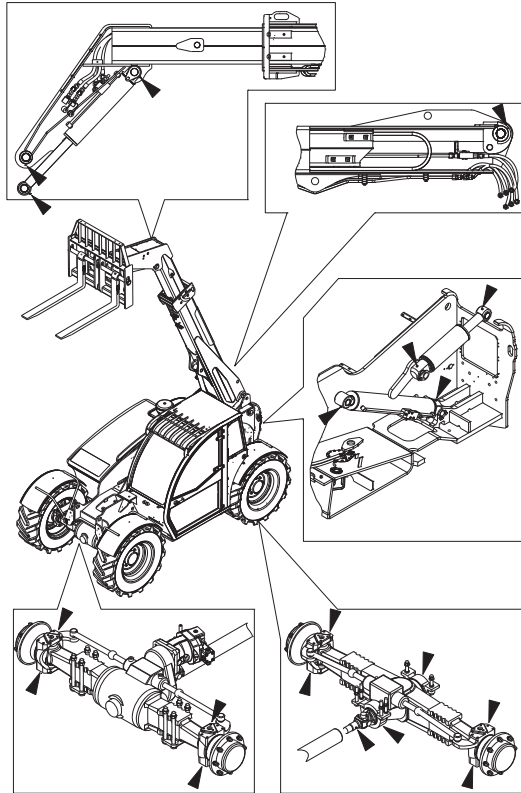


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50 Hour Lubrication Schedule

EVERY

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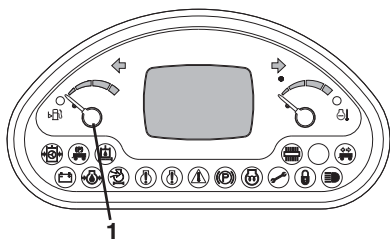
7.5 OPERATOR MAINTENANCE INSTRUCTIONS

Fuel System

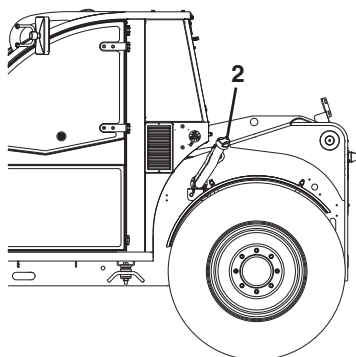
A. Fuel Level Check

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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 and secure fuel tank cap.

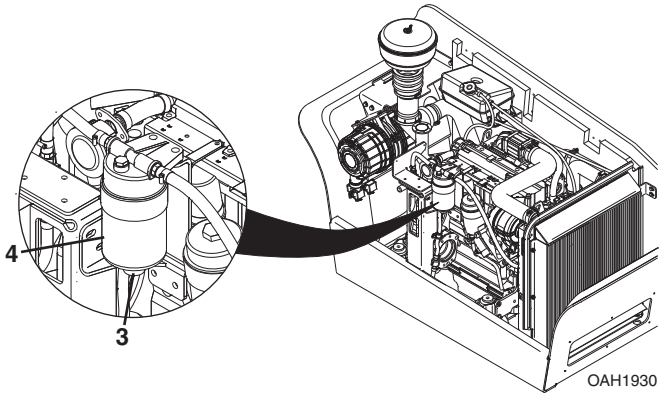
Note: Replenish diesel fuel at end of each work shift to minimize condensation.

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

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1. Perform "Shut-Down Procedure" on page 4-3.
2. Open 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 engine cover.

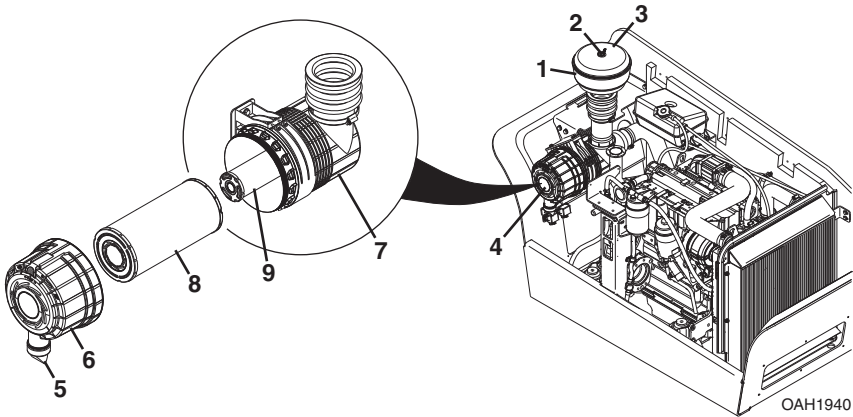
Section 7 - Lubrication and Maintenance

Air Intake System

A. Air Filter Check

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1. Perform “Shut-Down Procedure” on page 4-3.
2. Locate precleaner (1) on top of engine cover, loosen wing nut (2) and remove cover (3).
3. Remove dust from bowl.
4. Replace bowl and secure cover.
5. Open engine cover.
6. Locate air cleaner (4) and remove dust from vacuator valve (5) by squeezing bottom of valve to allow loose particles to fall out.
7. Close and secure engine cover.

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

Section 7 - Lubrication and Maintenance

B. Element Change (as restriction indicator indicates)

If air filter restriction indicator remains illuminated after startup or illuminates during operation, perform the following:

1. Unlock air cleaner cover (6), turn counterclockwise and remove from air cleaner canister (7).
2. Remove outer primary element (8) 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 (9) 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.

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

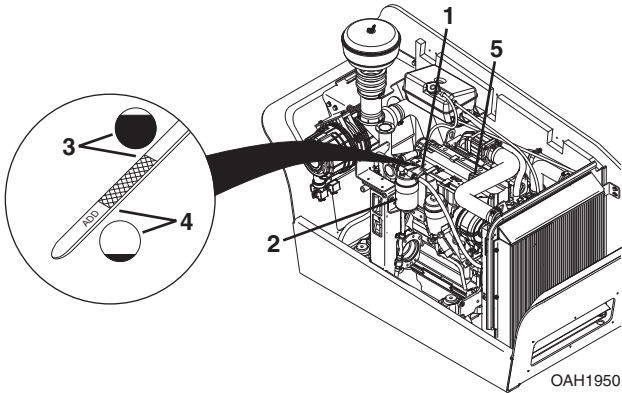
Section 7 - Lubrication and Maintenance

Engine Oil

A. Engine Oil Level Check

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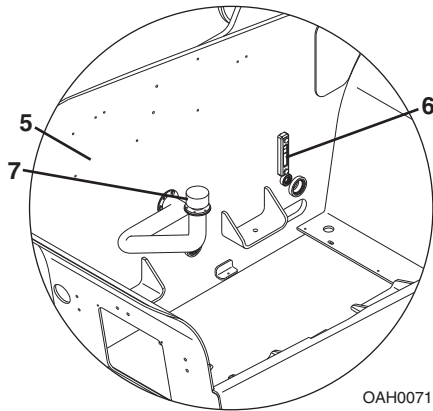
1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open engine cover.
3. Locate dipstick (1) behind fuel filter (2).
4. Remove dipstick and check oil mark. The oil should be between the full (3) and add (4) marks within the crosshatched area of the dipstick.
5. If oil is low, remove oil fill cap (5)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

Hydraulic Oil

A. Hydraulic Oil Level Check

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OW1030



1. Be sure all cylinders are fully retracted and machine is level.
2. Perform “*Shut-Down Procedure*” on page 4-3.
3. Open engine cover.
4. Check level of hydraulic oil at the sight gauge (6) on the hydraulic tank (5). The oil level should be visible in the gauge window.
5. If hydraulic oil is low, remove oil fill cap (7) from filler neck. Add hydraulic fluid to bring oil up to the upper mark on the sight gauge.
6. Replace hydraulic oil fill cap.
7. Close and secure 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.
 - 405/70-20 MPT-01 (L2906H, 2906H & 3507H).....3,5 bar (51 psi)
 - 405/70-24 MPT-01 (2906H & 3507H)4,0 bar (58 psi)
 - 405/70-20 MPT-04 (L2906H, 2906H, 3507H & 619A)3,5 bar (51 psi)
 - 405/70-24 MPT-04 (2906H, 3507H & 723A)4,0 bar (58 psi)
 - 400/70 R204,0 bar (58 psi)
 - 445/70 R24 (3507H & 723A).....4,1 bar (60 psi)
 - 460/70 R24 (3507H & 723A).....4,0 bar (58 psi)
- 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 7,5 cm (3 in) in total length.
- any tears or rips (ragged edges) in the cord plies which exceeds 2,5 cm (1 in) in any direction
- any punctures which exceed 2,5 cm (1 in) 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 and 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.

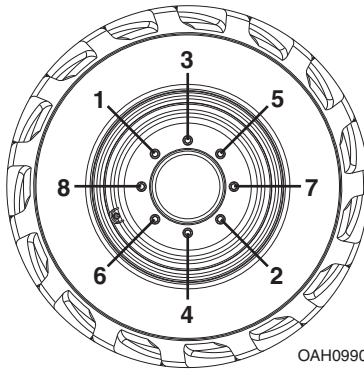
Section 7 - Lubrication and Maintenance

E. Wheel Installation

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

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



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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.

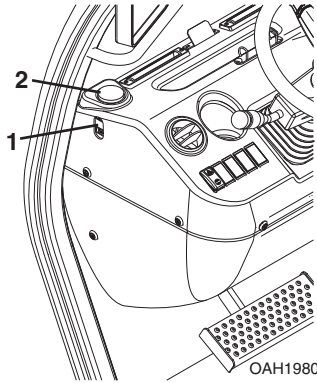
Brake System

A. Brake Fluid Level Check

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

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

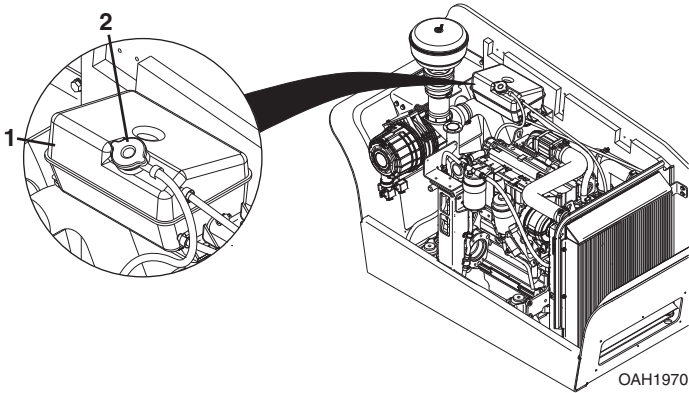
Section 7 - Lubrication and Maintenance

Engine Cooling System

A. Engine Coolant Level Check

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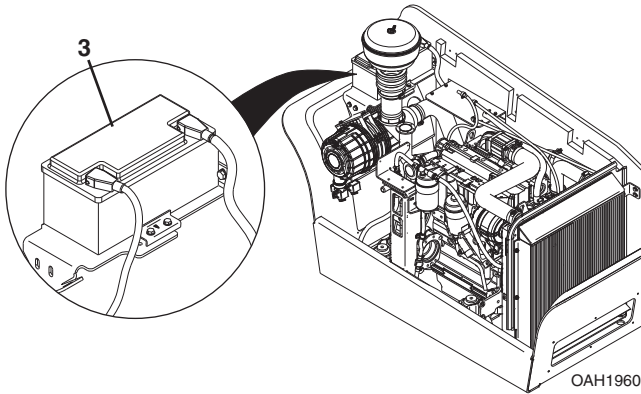
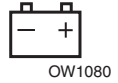


1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open engine cover.
3. Check coolant level in overflow bottle (1). When coolant is hot, bottle should be 1/2 to 3/4 full. When coolant is cool, bottle should be 1/4 to 1/2 full.
4. If coolant is low, remove overflow bottle cap (2) and add coolant (50/50 mixture of ethylene glycol and water) as required.
5. Replace overflow bottle cap.
6. Close and secure engine cover.

Battery

A. Battery Check

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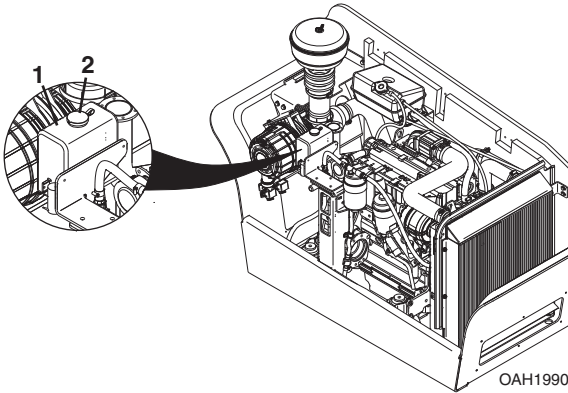
1. Perform “*Shut-Down Procedure*” on page 4-3.
2. Open engine cover.
3. Wearing eye protection, visually inspect the battery (3). Check terminals for corrosion. Replace battery if it has a cracked, melted or damaged case.
4. Close and secure engine cover.

Section 7 - Lubrication and Maintenance

Windshield Washer System (if equipped)

A. Windshield Washer Fluid Level Check

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OW0980



1. Perform “Shut-Down Procedure” on page 4-3.
2. Open engine cover.
3. The windshield washer fluid should be visible in the reservoir (1).
4. Add fluid as needed (2).
5. Close and secure engine cover.

SECTION 8 - ADDITIONAL CHECKS

8.1 GENERAL

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

8.2 LOAD STABILITY INDICATOR TEST (L2906H, 2906H & 3507H)

A. Load Stability Indicator System Test



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

Before S/N 1160005989 excluding 1160005189, 1160005314 & 1160005414

1. **Fully retract and level boom, with no load. Do not raise the boom during this test.**
2. Ensure frame is level.
3. Press the test button on the LSI display. This will cause all LEDs to flash on and an audible warning to sound. This indicates that the system is functioning properly.

S/N 1160005989 & After including 1160005189, 1160005314 & 1160005414

1. **Fully retract and level boom, with no load. Do not raise the boom during this test.**
2. Ensure frame is level.
3. Press the system check button on the LSI display. This will cause all LEDs to flash on and an audible warning to sound. This indicates that the system is functioning properly.

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SECTION 9 - SPECIFICATIONS

9.1 PRODUCT SPECIFICATIONS

Capacities

Engine Crankcase Oil

Capacity with Filter Change 10,4 liter (11 quart)

Type of Oil 15W-40

Fuel Tank

Capacity

L2906H, 2906H & 619A 95 liter (25 gallon)

3507H & 723A 102 liter (27 gallon)

Type of Fuel #2 Diesel

Cooling System

System Capacity 19 liter (5 gallon)

Overflow Bottle Capacity 3 liter (3.2 quart)

Type of Coolant 50/50 ethylene glycol & water

Hydraulic System

System Capacity

L2906H, 2906H & 619A 98 liter (26 gallon)

3507H & 723A 102 liter (27 gallon)

Reservoir Capacity to Full Mark

L2906H, 2906H & 619A 60 liter (16 gallon)

3507H & 723A 95 liter (25 gallon)

Type of Oil Mobilfluid® 424 Tractor Hydraulic Fluid

Section 9 - Specifications

Axles

Differential Housing Capacity

L2906H, 2906H & 619A

Front Axle..... 9,5 liter (10 quart)

Rear Axle 5,5 liter (5.8 quart)

3507H & 723A

Front Axle..... 10 liter (10.6 quart)

Rear Axle 8 liter (8.5 quart)

Wheel End Capacity

L2906H, 2906H & 619A..... 0,8 liter (0.8 quart)

3507H & 723A

Front Axle..... 0,6 liter (0.6 quart)

Rear Axle 0,7 liter (0.7 quart)

Transfer Box 0,5 liter (0.5 quart)

Type of Fluid Mobilube HDLS 80W-90

Mobilfluid® 424 Tractor Hydraulic Fluid

Shell Spirax LS

Esso Torque Fluid 62

Selenia Ambra STF 80W-90

Tires

405/70-20 MPT-01 (L2906H, 2906H & 3507H)3,5 bar (51 psi)

405/70-24 MPT-01 (2906H & 3507H)4,0 bar (58 psi)

405/70-20 MPT-04

Pneumatic (L2906H, 2906H, 3507H & 619A)3,5 bar (51 psi)

Foam (619A) Approx 200 kg (441 lb)

405/70-24 MPT-04

Pneumatic (2906H, 3507H & 723A).....4,0 bar (58 psi)

Foam (723A) Approx 240 kg (529 lb)

400/70 R204,0 bar (58 psi)

445/70 R24 (3507H & 723A)4,1 bar (60 psi)

460/70 R24 (3507H & 723A)4,0 bar (58 psi)

Wheel Lug Nut

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

Performance

Maximum Lift Capacity

L2906H & 2906H	2900 kg (6393 lb)
3507H	3500 kg (7716 lb)
619A	5700 lb (2585 kg)
723A	6700 lb (3039 kg)

Maximum Lift Height

L2906H, 2906H & 619A	5,8 m (19 ft)
3507H & 723A	6,9 m (22.6 ft)

Capacity at Maximum Height

L2906H & 2906H	2200 kg (4850 lb)
3507H	2600 kg (5732 lb)
619A	4000 lb (1814 kg)
723A	5600 lb (2540 kg)

Maximum Forward Reach

L2906H, 2906H & 619A	3.1 m (10.3 ft)
3507H & 723A	3,9 m (12.8 ft)

Capacity at Maximum Forward Reach

L2906H & 2906H	1000 kg (2205 lb)
3507H	1150 kg (2535 lb)
619A	2200 lb (998 kg)
723A	2500 lb (1134 kg)

Reach at Maximum Height

L2906H, 2906H & 619A	0,8 m (2.6 ft)
3507H & 723A	0,9 m (3.0 ft)

Maximum Travel Speed 32 kph (20 mph)

Towing Capacity (Off-Highway) 5,000 kg (11,023 lb)

Maximum Travel Grade

Gradeability	45%
Side Slope	8.75%

Section 9 - Specifications

Dimensions

Overall Height

L2906H	2000 mm (78.7 in)
2906H & 619A	2350 mm (92.5 in)
3507H & 723A	2450 mm (96.5 in)

Overall Width

L2906H, 2906H & 619A	2110 mm (83.1 in)
3507H & 723A	2330 mm (91.7 in)

Track Width

L2906H, 2906H & 619A	1633 mm (64.3 in)
3507H & 723A	1855 mm (73.0 in)

Wheelbase

L2906H, 2906H & 619A	2765 mm (108.9 in)
3507H & 723A	2975 mm (117.1 in)

Overall Length (less Forks)

L2906H, 2906H & 619A	4318 mm (170.0 in)
3507H & 723A	4798 mm (188.9 in)

Ground Clearance

L2906H, 2906H & 619A	440 mm (17.3 in)
3507H & 723A	460 mm (18.1 in)

Outside Turning Radius

L2906H, 2906H & 619A	3683 mm (145 in)
3507H & 723A	3886 mm (153 in)

Maximum Gross Vehicle Weight (no attachment)

L2906H, 2906H & 619A	6743 kg (14,865 lb)
3507H & 723A	8096 kg (17,857 lb)

Maximum Front Axle Weight (no attachment) (boom level and fully retracted)

L2906H, 2906H & 619A	3574 kg (7879 lb)
3507H & 723A	4290 kg (9458 lb)

Maximum Rear Axle Weight (no attachment) (boom level and fully retracted)

L2906H, 2906H & 619A	3169 kg (6986 lb)
3507H & 723A	3805 kg (8389 lb)

Maximum Ground Bearing Pressure

L2906H & 2906H	12,5 kg/cm ² (178 lb/in ²)
3507H	13,7 kg/cm ² (195 lb/in ²)
619A	
Air Filled.....	178 lb/in ² (12,5 kg/cm ²)
Foam Filled	214 lb/in ² (15,0 kg/cm ²)
723A	
Air Filled.....	195 lb/in ² (13,7 kg/cm ²)
Foam Filled	236 lb/in ² (16,6 kg/cm ²)

Section 9 - Specifications

Declaration of Vibration (CE)

Average weighted whole body acceleration.

Mechanical Suspension Seat

L2906H	1,1 m/s ² (3.6 ft/s ²)
2906H	1,3 m/s ² (4.3 ft/s ²)
3507H	1,4 m/s ² (4.6 ft/s ²)

Pneumatic Suspension Seat

L2906H	0,8 m/s ² (2.6 ft/s ²)
2906H	0,7 m/s ² (2.3 ft/s ²)
3507H	0,9 m/s ² (3.0 ft/s ²)

Noise Emission Level (CE)

- The telehandler is approved under the applicable EC directives.
- The LWA sound power is shown on the machine.
L2906H, 2906H & 3907H..... 106 dB
- To avoid any increase in noise emission after maintenance and repair work, all panels and other sound absorbing materials must be replaced in their original condition. Do not modify the machine in such a manner as to increase noise emissions.

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An Oshkosh Corporation Company

TRANSFER OF OWNERSHIP

To Product Owner:

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

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

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

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

Mfg. Model: _____

Serial Number: _____

Previous Owner: _____

Address: _____

Country: _____ Telephone: (_____) _____

Date of Transfer: _____

Current Owner: _____

Address: _____

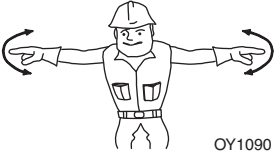
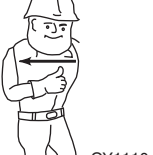
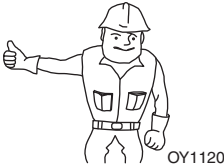
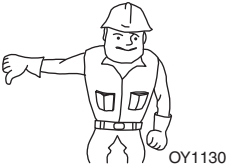
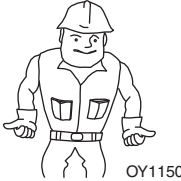
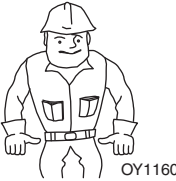
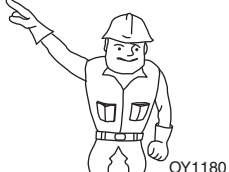
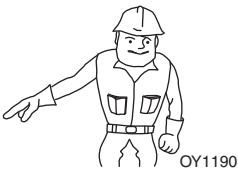
Country: _____ Telephone: (_____) _____

Who in your organization should we notify?

Name: _____

Title: _____

Hand Signals

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

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.



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