



OPERATORS & SAFETY

Models 100HX 100HX+10 110HX

3120889

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SECTION 1. SAFETY PRECAUTIONS

1.1 GENERAL

This section prescribes the proper and safe practices for major areas of machine usage. In order to promote proper usage of the machine, it is mandatory that a daily routine be established based on instructions given in this section. A maintenance program must be also be established by a qualified person and must be followed to ensure that the machine is safe to operate.

The owner/user/operator of the machine should not accept operating responsibility until this manual has been read and understood, and operation of the machine, under the supervision of an experienced and qualified person, has been completed. If there is a question on application and or operation, JLG Industries Inc., should be consulted.

WARNING

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

1.2 DRIVING/TOWING

Before driving the machine, the user must be familiar with the drive, steer and stopping characteristics. This is especially important when driving in close quarters.

The user should be familiar with the driving surface before driving. The surface should be firm and level and grades should not exceed the allowable grade for the machine.

NOTE: *Remember that the key to safe and proper usage is common sense and its careful application.*

The machine is not equipped with provisions for towing. Refer to Section 6 for emergency towing procedures.

SPECIAL NOTE:

WARNING

FAILURE TO COMPLY WITH SAFETY PRECAUTIONS LISTED IN THIS SECTION AND ON THE MACHINE COULD RESULT IN MACHINE DAMAGE, PERSONNEL INJURY OR DEATH, AND IS A SAFETY VIOLATION.

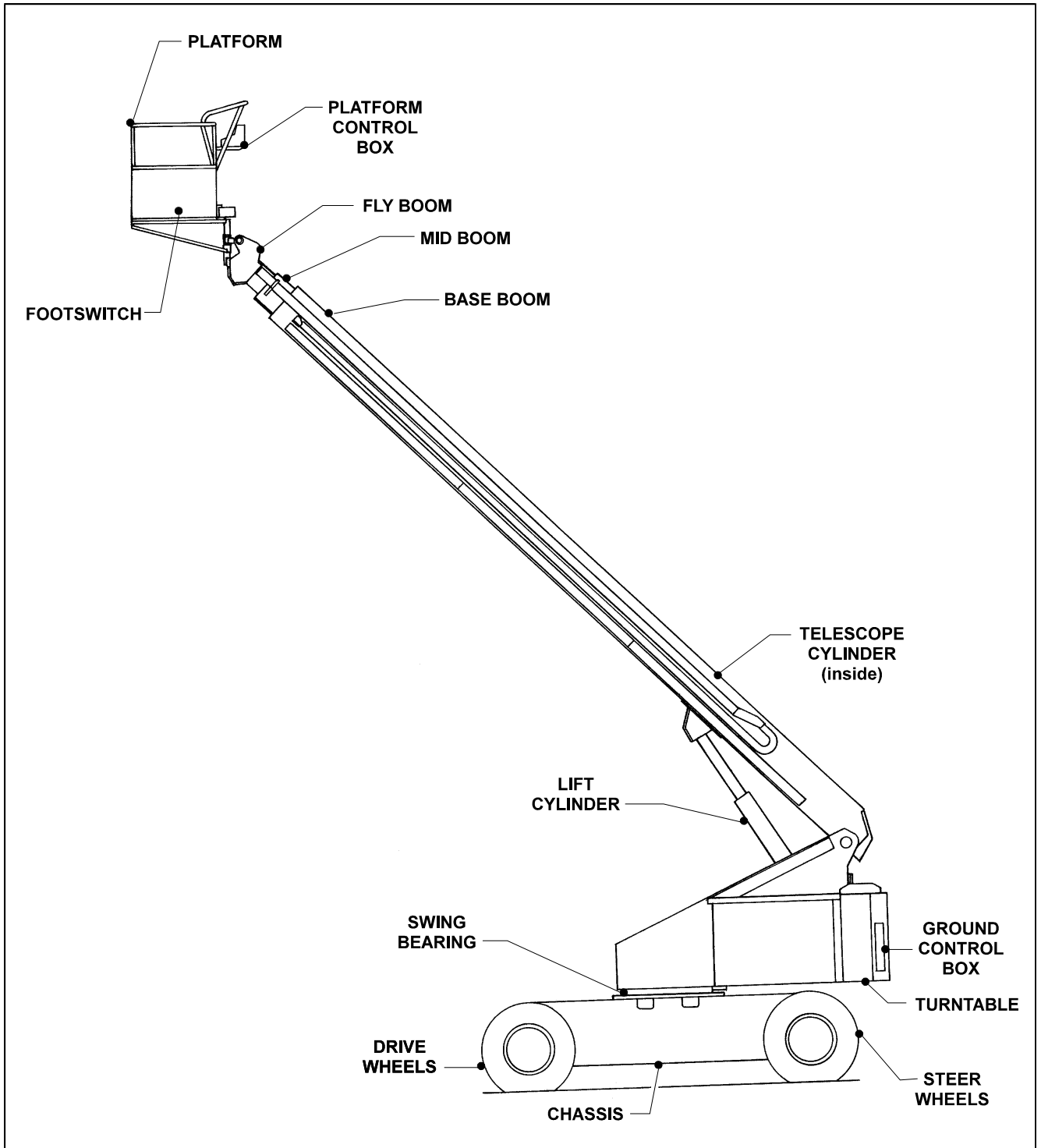


Figure 2-1. Machine Nomenclature

6. Position toggle switch located on the right side of the ground control station in the "M" position and hold.
7. Extend boom until it stops. Boom must stop on white tape on mid boom. Release toggle switch.
8. Retract boom 3 meters and attempt to extend boom. Boom must not extend. Reset system by activating toggle switch marked "R" located on right side of ground control station.
9. If boom does not stop at white tape or boom can be extended after being retracted 3 meters without resetting, system must be repaired by JLG authorized service personnel before machine can be used.

2.6 TORQUE REQUIREMENTS

The Torque Chart (See Figure 2-6.) consists of standard torque values based on bolt diameter and grade, also specifying dry and wet torque values in accordance with recommended shop practices. This chart is provided as an aid to the operator in the event a condition is noticed that requires prompt attention during the walk-around inspection or during operation until the proper service personnel can be notified. The Service and Maintenance manual provides specific torque values and periodic maintenance procedures with a listing of individual components. Utilizing this Torque Chart in conjunction with the preventive maintenance section in the Service and Maintenance manual, will enhance safety, reliability and performance of the machine.

2.7 BATTERY MAINTENANCE

WARNING

TO AVOID INJURY FROM AN EXPLOSION, DO NOT SMOKE OR ALLOW SPARKS OR A FLAME NEAR BATTERY DURING SERVICING.

ALWAYS WEAR EYE PROTECTION WHEN SERVICING BATTERIES.

Battery Maintenance

1. The battery is maintenance free except for occasional battery terminal cleaning, as noted in the following.
2. Remove battery cables from each battery post one at a time, negative first. Clean cables with acid neutralizing solution (e.g. baking soda and water or ammonia) and wire brush. Replace cables and/or cable clamp bolts as required.
3. Clean battery post with wire brush then re-connect cable to post. Coat non-contact surfaces with mineral grease or petroleum jelly (Vaseline).
4. When all cables and terminal posts have been cleaned, ensure all cables are properly positioned and are not pinched. Close battery compartment cover.

SECTION 3 - USER RESPONSIBILITIES AND MACHINE CONTROL

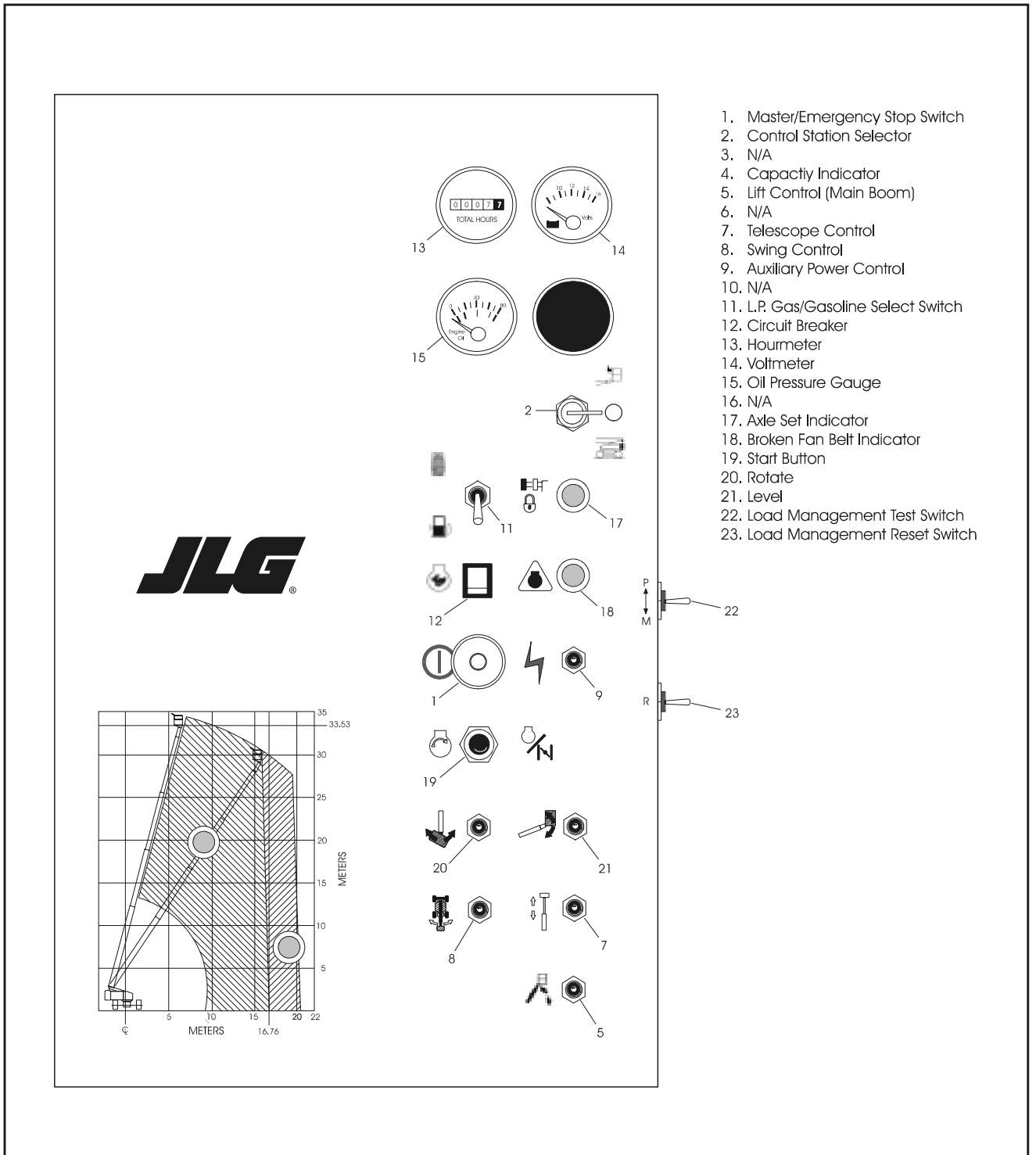


Figure 3-6. Ground Control Station - 100HX and 110HX - January 1992 to Present

3.5 PLACARDS AND DECALS

Read and understand all placards and decals. Do not operate any machine on which DANGER, WARNING, CAUTION, or INSTRUCTION PLACARDS OR DECALS ARE MISSING OR ILLEGIBLE. Replace placards and decals if damaged, missing, or illegible.

Decals are made of Lexan Pressure Sensitive Adhesive with a protective film on the front. Remove the damaged decal and thoroughly clean the surface before installing a new decal. Simply peel off the backing and press the decal on to the surface.

NOTE: *Placards and Decals can be ordered by using the part numbers located by each placard or decal. See Figure 3-12., Caution, Danger, Warning Decal Location - Sheet 1 of 2 and Figure 3-13., Caution, Danger, Warning Decal Location - Sheet 2 of 2*

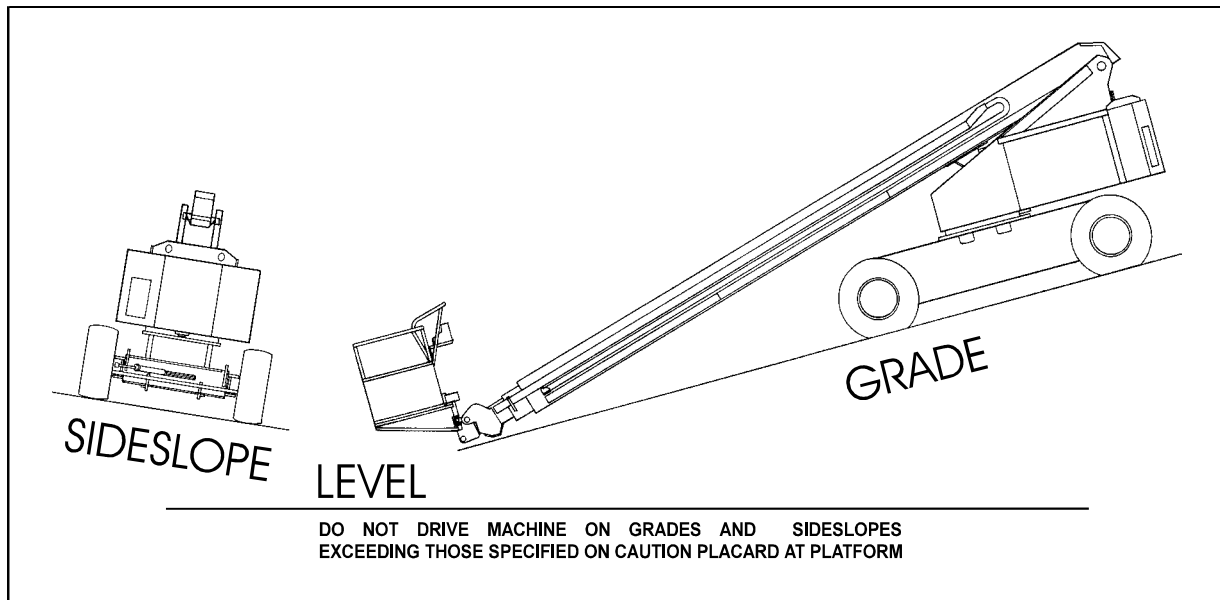


Figure 4-1. Grade and Side Slope

⚠ CAUTION

BEFORE DRIVING, MAKE SURE BOOM IS POSITIONED OVER REAR AXLE. IF BOOM IS OVER FRONT AXLE (STEER WHEELS), STEER AND DRIVE CONTROLS WILL MOVE IN OPPOSITE DIRECTIONS TO MACHINE CONTROLS.

Traveling Forward or Reverse

1. With engine running, depress footswitch and position DRIVE control to FORWARD and hold for the duration of forward travel desired.

NOTE: When DRIVE or STEER functions are being operated there is an interlock which prevents operation of boom functions.

2. Depress footswitch and position DRIVE control to REVERSE and hold for duration of reverse travel desired.
3. Depress footswitch and position STEER control to RIGHT for traveling right and LEFT for traveling left.
4. To obtain maximum travel speed, position the DRIVE controller to FAST and activate the following switches:
 - a. Position HIGH ENGINE switch to HIGH.
 - b. Position WHEEL MOTOR SPEED switch to HIGH.
 - c. Position PUMP VOLUME switch to HIGH.
5. Prior to stopping the machine, position switches as follows:
 - a. Position HIGH ENGINE switch to LOW.

- b. Position WHEEL MOTOR SPEED switch to LOW.
 - c. Position PUMP VOLUME switch to LOW.
6. For traveling up grades, position switches as follows:
 - a. Position HIGH ENGINE switch to HIGH.
 - b. Position WHEEL MOTOR SPEED switch to LOW.
 - c. Position PUMP VOLUME switch to LOW.

NOTE: For smoother operation when driving with fully extended boom, place DRIVE control to SLOW before stopping.

4.5 STEERING

Depress footswitch to steer machine, push on the left side of the switch to steer left, on the right side to steer right.

⚠ CAUTION

BEFORE OPERATING MACHINE, MAKE SURE BOOM IS POSITIONED OVER REAR AXLE. IF BOOM IS OVER FRONT AXLE (STEER WHEELS), STEER AND DRIVE CONTROLS WILL MOVE IN OPPOSITE DIRECTION THAN INDICATED ON MACHINE PLACARDS.

SECTION 5. OPTIONAL EQUIPMENT

5.1 ROTATOR

A Platform rotator allows for platform rotation 90 degrees from center in either direction. The rotator is designed to give added jobsite versatility. The platform should be returned to the center position for all other operations.

5.2 DUAL FUEL SYSTEM (GAS ENGINE ONLY)

Description

The dual fuel system enables the standard gasoline engine to run on either gasoline or LP gas. The system includes pressurized cylinders mounted on the frame, and the valves and switches needed to switch the fuel supply from gasoline to LP gas or from LP gas to gasoline.

A two position, FUEL toggle switch at the ground control station supplies electrical power to open the gasoline shut-off solenoid and close the LP gas shut off solenoid when positioned to the GASOLINE position. This switch supplies electrical power to open the LP gas shut-off solenoid and close the gasoline shut-off solenoid when positioned to the LP position.

IT IS POSSIBLE TO SWITCH FROM ONE FUEL SOURCE TO THE OTHER WITHOUT ALLOWING THE ENGINE TO STOP. EXTREME CARE MUST BE TAKEN AND THE FOLLOWING INSTRUCTIONS MUST BE FOLLOWED.

Changing From Gasoline to LP Gas

1. Start engine from Ground Control Station.
2. Open hand valve on LP gas supply tank by turning counterclockwise.

⚠ CAUTION

BE SURE GASOLINE IS EXHAUSTED BEFORE SWITCHING TO LP GAS. SEE STEP (3) BELOW.

3. While engine is operating, place DUAL FUEL switch at Ground Control to center OFF position. Allow engine to operate without load, until engine begins to stumble from lack of gasoline. As engine begins to stumble, place the switch to LP position, allowing LP gas to flow to the fuel regulator.

Changing From LP Gas to Gasoline

1. With engine operating on LP under a no-load condition, position DUAL FUEL switch at Ground Control Station to GASOLINE position.

2. If engine stumbles because of lack of gasoline, place the switch to LP position until engine regains smoothness, then return switch to GASOLINE position. Repeat as necessary until engine runs smoothly on gasoline.
3. Close hand valve on LP gas supply tank by turning clockwise.

5.3 TOW PACKAGE

The tow package is required when it is necessary to move the machine without use of the drive and steer system.

⚠ WARNING

TOWING IS PERMITTED ONLY FOR EMERGENCY TRAVEL ON THE JOBSITE. NO HIGHWAY TOWING IS PERMITTED.

The towing package consists of the tow bar, attaching hardware, a tow bar which connects to the eyes on front of frame and the towing vehicle, and a tow/steer selector valve which permits the steering system to 'float free' when towing the machine.

5.4 TRAVEL ALARM

A 12-volt alarm horn, mounted on the turntable, provides an audible warning when the machine is in the travel (DRIVE) mode. It will function in FORWARD or REVERSE to warn jobsite personnel the machine is traveling.

5.5 TILT ALARM

Senses when the machine is out of level in any direction approximately 5 degrees and illuminates a warning light at the platform control station and sounds the machine's horn, signaling the operator. A second switch mounted on the machine senses when the machine is out of level 5 degrees and will cut out two speed drive when activated.

5.6 FOAM FILLED TIRES

Eliminates flats by filling tires with polyurethane foam. For use where sharp objects are frequently encountered on operating surface of jobsite.

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