

# Genie®

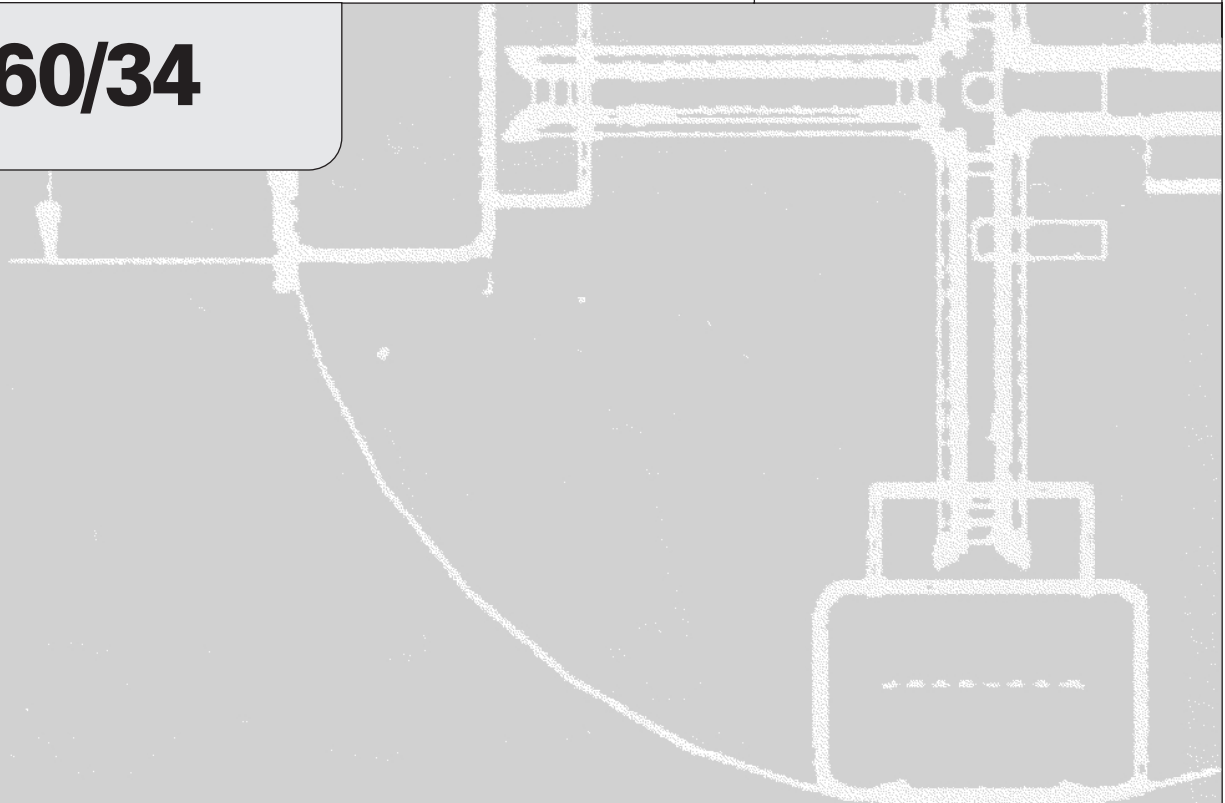


## Operator's Manual

*with Maintenance Information*

Third Edition  
Sixth Printing  
Part No. 43630

### Z™-60/34



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## Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual is considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, call Genie Industries.

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These machines comply with ANSI/SIA 92.5-1992.

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# Safety Rules



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## Danger

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

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## Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.

### 1 Avoid hazardous situations.

**Know and understand the safety rules before going on to the next section.**

2 Always perform a pre-operation inspection.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

- You read, understand and obey:

Manufacturer's instructions and safety rules—safety and operator's manuals and machine decals

employer's safety rules and worksite regulations

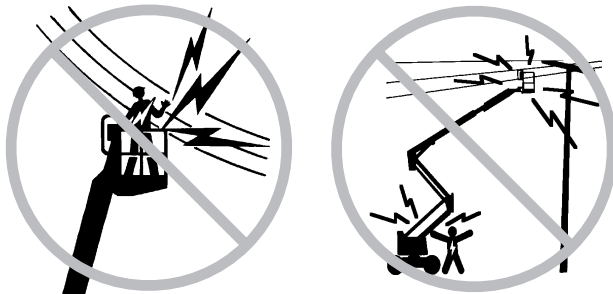
applicable governmental regulations

- You** are properly trained to safely operate the machine.

SAFETY RULES

### Electrocution Hazards

This machine is **not** electrically insulated and will **not** provide protection from contact with or proximity to electrical current.



Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

Voltage Phase to Phase Distance	Minimum Safe Approach	
	Feet	Meters
0 to 300V	Avoid Contact	
300V to 50KV	10	3.1
50KV to 200KV	15	4.6
200KV to 350KV	20	6.1
350KV to 500KV	25	7.6
500KV to 750KV	35	10.7
750KV to 1000KV	45	13.7

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

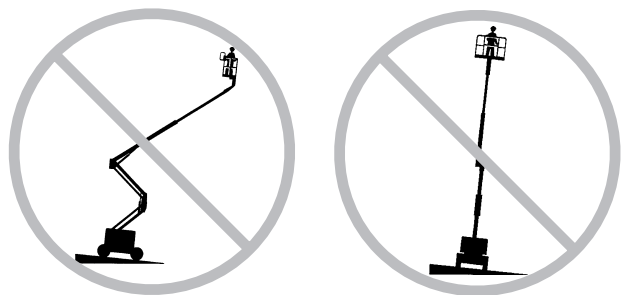
Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

Do not use the machine as a ground for welding.

### Tip-over Hazards

Occupants and equipment shall not exceed the maximum platform capacity.

<b>Maximum platform capacity</b>	500 lbs	227 kg
<b>Maximum occupants</b>	2	



Do not raise or extend the boom unless the machine is on a firm, level surface.

Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds in the platform only when the machine is on a severe slope.

If the tilt alarm sounds:

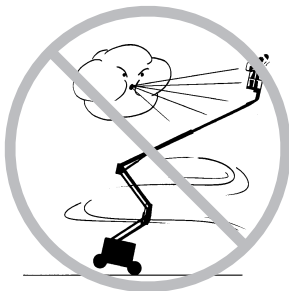
Do not extend, rotate or raise the boom above horizontal. Move the machine to a firm, level surface before raising the platform. If the tilt alarm sounds when the platform is raised, use extreme caution to retract the boom and lower the platform. Do not rotate the boom while lowering. Move the machine to a firm, level surface before raising the platform.

**SAFETY RULES**

Do not use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure. All personnel must be removed from the platform before attempting to free the platform using the ground controls.

Do not alter or disable the limit switches.

Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.

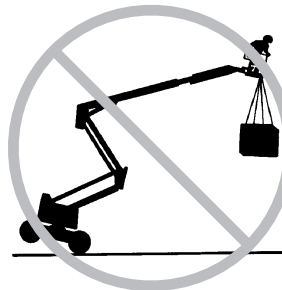


Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Do not modify or alter an aerial work platform. Mounting attachments for holding tools or other materials onto the platform, toeboards or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

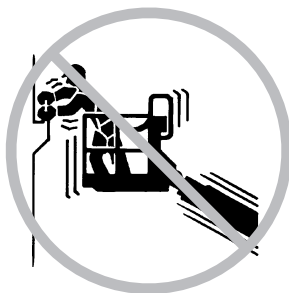
Do not place or attach overhanging loads to any part of the machine.



Use extreme care and slow speeds while driving the machine in the stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the boom raised or extended.

Do not push off or pull toward any object outside of the platform.



**Maximum allowable side force-ANSI & CSA**  
150 lbs / 667 N

**Maximum allowable side force - CE & Australia**  
90 lbs / 400 N

Do not place ladders or scaffolds in the platform or against any part of the machine.

Do not use the machine on a moving or mobile surface or vehicle.

Be sure all tires are in good condition, air-filled tires are properly inflated and lug nuts are properly tightened.

Do not use the machine as a crane.

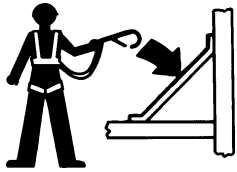
Do not push the machine or other objects with the boom.

Do not contact adjacent structures with the boom.

Do not tie the boom or platform to adjacent structures.

Do not place loads outside the platform perimeter.

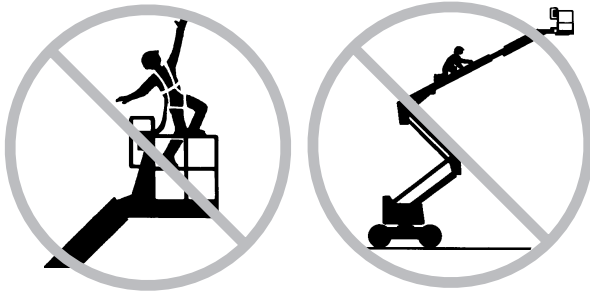
## SAFETY RULES

**Fall Hazards**

Occupants must wear a safety belt or harness in accordance with governmental regulations. Attach the lanyard to the anchor provided in the platform.

It is recommended that operators wear an approved hard hat when operating the machine.

Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

Lower the platform entry mid-rail or close the entry gate before operating.

**Explosion and Fire Hazards**

Do not start the engine if you smell or detect liquid petroleum gas (LPG), gasoline, diesel fuel or other explosive substances.

Do not refuel the machine with the engine running.

Refuel the machine and charge the battery only in an open, well-ventilated area away from sparks, flames and lighted tobacco.

Do not operate the machine in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

**Collision Hazards**

Be aware of limited sight distance and blind spots when driving or operating.

Be aware of the boom position when rotating the turntable.

Check work area for overhead obstructions or other possible hazards.



Be aware of crushing hazards when grasping the platform guard rail.

## SAFETY RULES

Observe and use the color-coded direction arrows on the platform controls and drive chassis for drive and steer functions.

Do not lower the boom unless the area below is clear of personnel and obstructions.



Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

No stunt driving or horseplay while operating a machine.

Do not operate a boom in the path of any crane unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

## Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual and the *Genie Z-60/34 Service Manual*.

Be sure all decals are in place and legible.

Be sure the operator's, safety and responsibilities manuals are complete, legible and in the storage container located on the platform.

## Component Damage Hazard

Do not use the machine as a ground for welding.

Be sure the hydraulic shutoff valves (located by the hydraulic tank) are open before starting the engine.

## Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.

Always operate the machine in a well-ventilated area to avoid carbon monoxide poisoning.

## SAFETY RULES

## Battery Safety

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### Burn Hazards

Batteries contain acid. Always wear protective clothing and eyewear when working with batteries.

Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

### Explosion Hazard

Keep sparks, flames and lighted tobacco away from the battery. Batteries emit explosive gas.

### Electrocution Hazard

Avoid contact with electrical terminals.

### Component Damage Hazard

Do not use any battery or charger greater than 12V to jump-start the engine or charge the battery.

## Decal Legend

Genie product decals use symbols, color coding and signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.



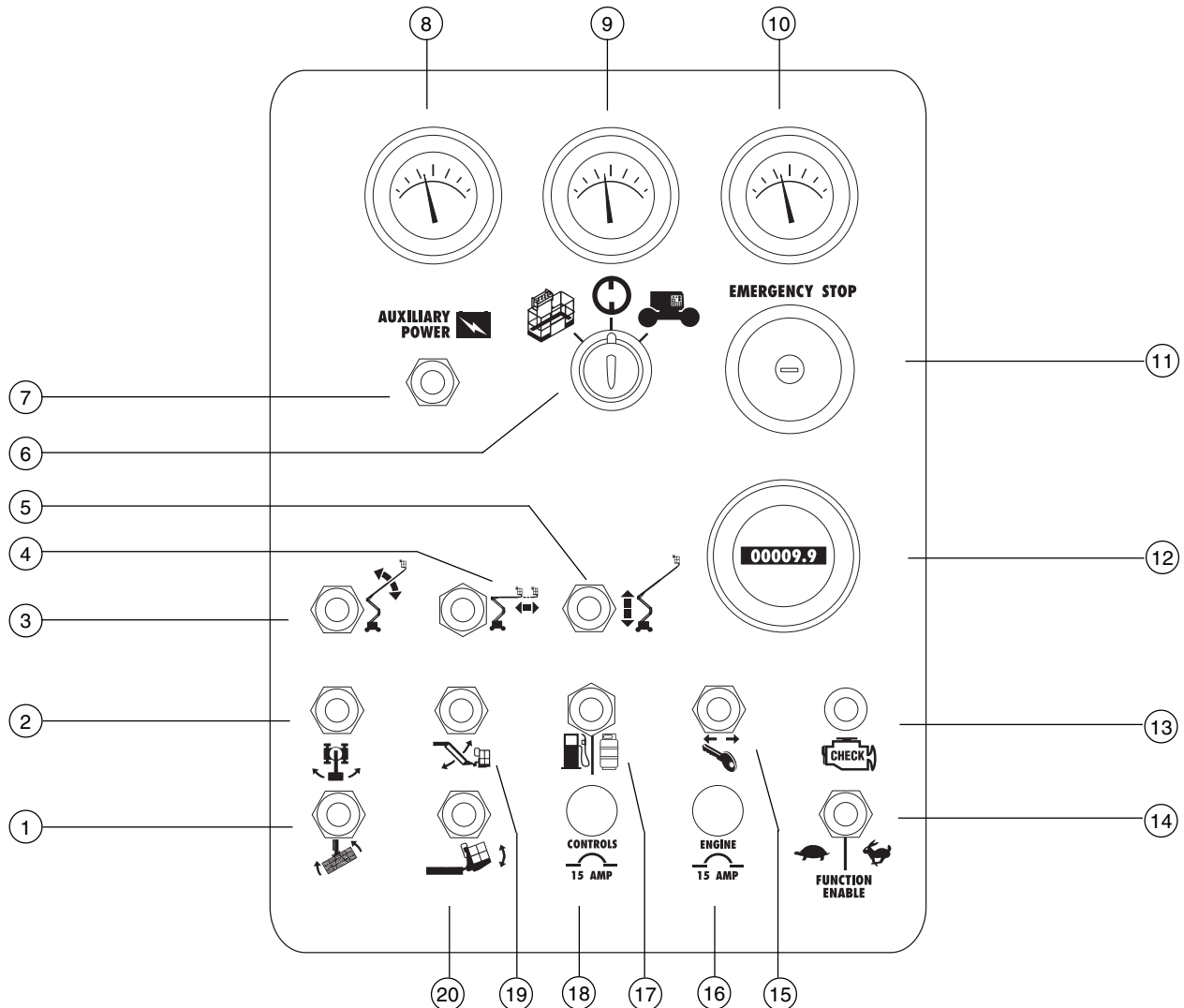
Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.



Green—used to indicate operation or maintenance information.



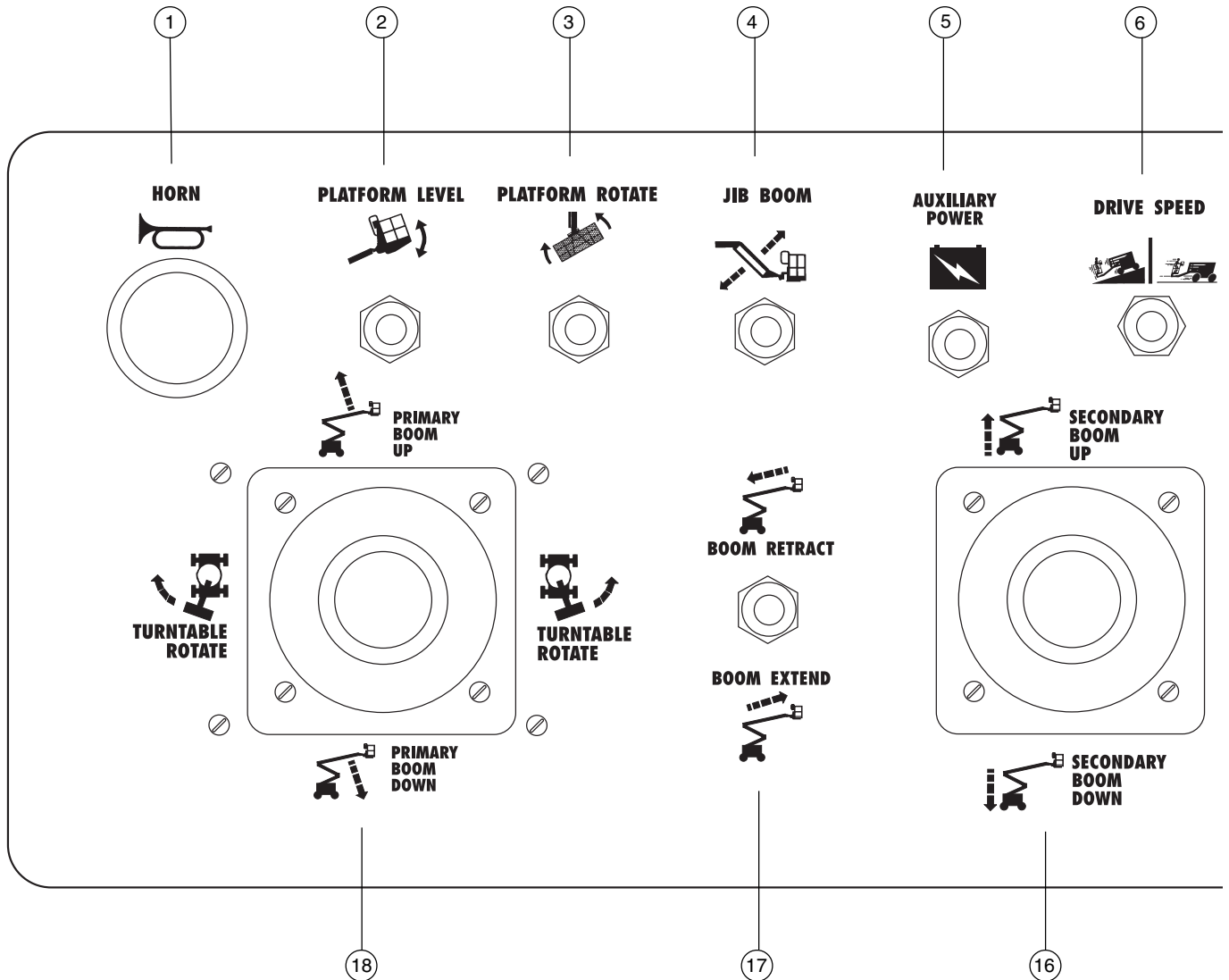
# Controls



## Ground Control Panel

- |    |  |    |   |
|----|--|----|---|
| 1  | Platform rotate switch   | 11 | Red Emergency Stop button   |
| 2  | Turntable rotate switch  | 12 | Hour meter  |
| 3  | Primary boom up/down switch  | 13 | Gasoline/LPG models: Check engine light<br>Deutz Diesel models: Glow plug switch (option) |
| 4  | Primary boom extend/retract switch   | 14 | Function enable switch  |
| 5  | Secondary boom up/down switch  | 15 | Engine start switch   |
| 6  | Key switch for platform/off/ground selection   | 16 | 15A breaker for engine electrical circuits  |
| 7  | Auxiliary power switch   | 17 | Gasoline/LPG select switch  |
| 8  | Gasoline/LPG models: Water temperature gauge<br>Deutz Diesel models: Oil temperature gauge | 18 | 15A breaker for control electrical circuits   |
| 9  | Oil pressure gauge   | 19 | Jib boom up/down switch   |
| 10 | Voltage gauge  | 20 | Platform level switch   |

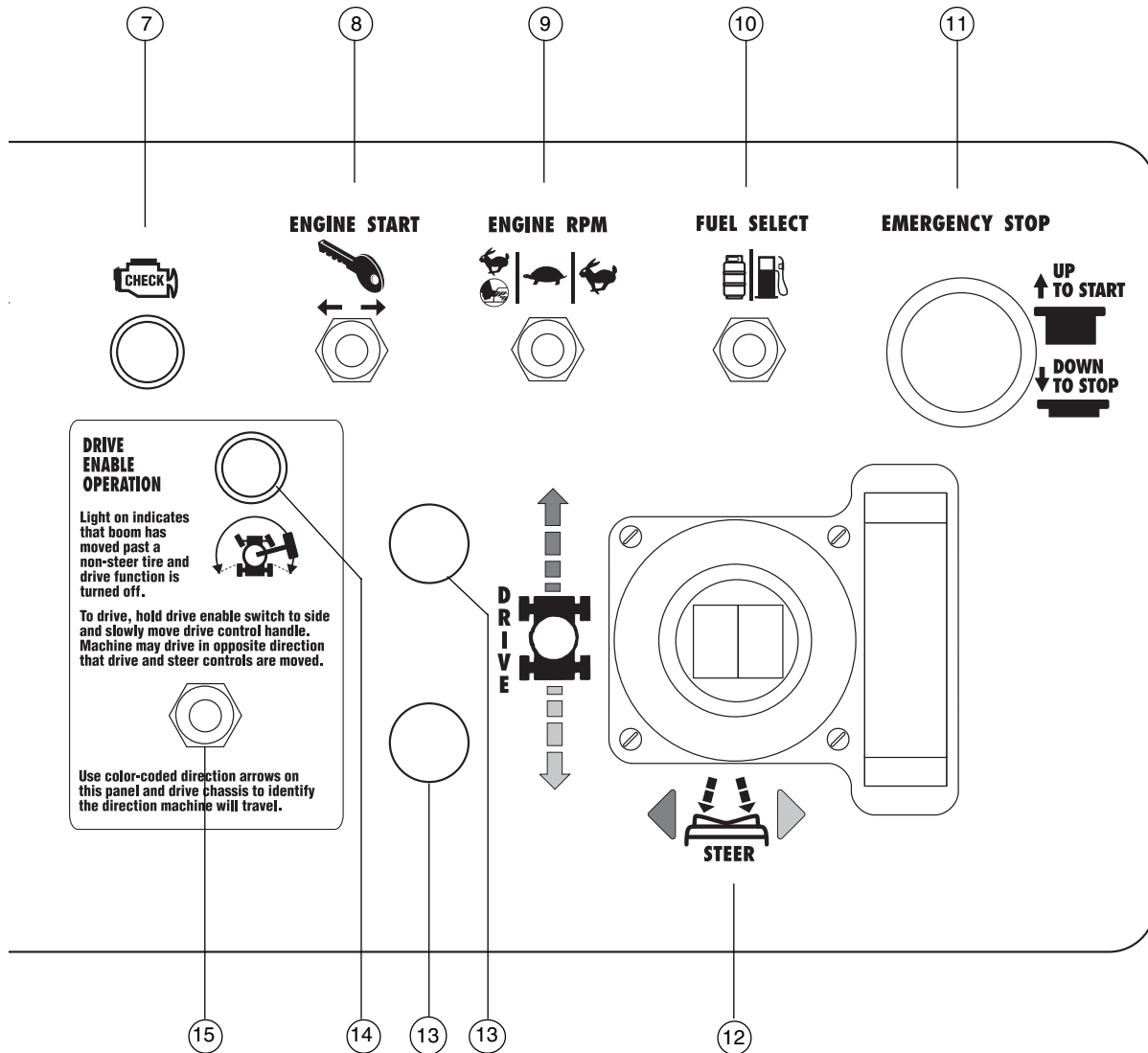
CONTROLS



**Platform Control Panel**

- 1 Horn button
- 2 Platform level switch
- 3 Platform rotate switch
- 4 Jib boom up/down switch
- 5 Auxiliary power switch
- 6 Drive speed select switch
- 7 Check engine light
- 8 Engine start switch
- 9 Engine idle (rpm) control switch
  - Rabbit and foot switch symbol: foot switch activated high idle
  - Turtle symbol: low idle
  - Rabbit symbol: high idle
- 10 Gasoline/LPG models: Gasoline/LPG select switch  
Deutz Diesel models: Glow plug switch (option)
- 11 Red Emergency Stop button

CONTROLS



12 Proportional control handle for drive function and thumb rocker for steer function

13 Optional equipment

14 Drive enable indicator light

15 Drive enable switch

16 Proportional control handle for secondary boom up/down function

17 Primary boom extend/retract switch

18 Dual axis proportional control handle for primary boom up/down and turntable rotate left/right functions

# Pre-operation Inspection



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## Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

**2 Always perform a pre-operation inspection.**

**Know and understand the pre-operation inspection before going on to the next section.**

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

## Fundamentals

It is the responsibility of the operator to perform a Pre-operation Inspection and routine maintenance.

The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The Pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items and locations for modifications, damage or loose or missing parts.

A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

## PRE-OPERATION INSPECTION

## Pre-operation Inspection

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- Be sure that the operator's, safety and responsibilities manuals are complete, legible and in the storage container located in the platform.
- Be sure that all decals are legible and in place. See Decals section.
- Check for engine oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- Check for engine coolant leaks and proper level of coolant. Add coolant if needed. See Maintenance section.
- Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.
- Check for proper tire pressure. Add air if needed. See Maintenance section.

Check the following components or areas for damage, modifications and improperly installed or missing parts:

- Electrical components, wiring and electrical cables
- Hydraulic hoses, fittings, cylinders and manifolds
- Fuel and hydraulic tanks
- Drive and turntable motors and drive hubs
- Boom wear pads
- Tires and wheels
- Engine and related components
- Limit switches and horn

- Alarms and beacons (if equipped)
- Nuts, bolts and other fasteners
- Platform entry mid-rail or gate

Check entire machine for:

- Crack in welds or structural components
- Dents or damage to machine
- Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- After you complete your inspection, be sure that all compartment covers are in place and latched.

# Maintenance



## Observe and Obey:

- ☑ Only routine maintenance items specified in this manual shall be performed by the operator.
- ☑ Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.

## Maintenance Symbols Legend

### NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



Indicates that new parts will be required to perform this procedure.



Indicates that a cold engine is required before performing this procedure.

## Check the Engine Oil Level



Maintaining the proper engine oil level is essential to good engine performance and service life. Operating the machine with an improper oil level can damage engine components.

### NOTICE

Check the oil level with the engine off.

- 1 Check the oil dipstick.

### Ford models:

- ⊙ Result: The oil level should be between the ADD and SAFE marks. Add oil as needed.

### Deutz models:

- ⊙ Result: The oil level should be within the two marks on the dipstick. Add oil as needed.

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### Ford LRG-425 EFI Engine

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#### Oil viscosity requirements

below 60°F / 15.5°C	5W-30
-10° to 90°F / -23° to 32°C	5W-30
above -10°F / -23°C	5W-30
above 25°F / -4°C	10W-30

Use oils meeting API classification SH or SG grade. Units ship with 10-40 CC/SG.

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## MAINTENANCE

**Deutz F4L 1011F Engine****Oil viscosity requirements**

below 60°F / 15.5°C (synthetic)	5W-30
-10°F to 90°F / -23°C to 32°C	10W-40
above -4°F / -34°C	15W-40

Engine oil should have properties of API classification CC/SE or CC/SF grades.  
Units ship with 10-40 CC/SG.

**Check the Hydraulic Oil Level**

Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

- 1 Be sure that the boom is in the stowed position, then visually inspect the sight gauge located on the side of the hydraulic oil tank. Add oil as needed.
- ⊙ Result: The hydraulic oil level should be within the top 2 inches / 5 cm of the sight gauge.

**Hydraulic oil specifications**

Hydraulic oil type	Dexron equivalent
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## MAINTENANCE

## Check the Engine Coolant Level - Gasoline/LPG Models



Maintaining the engine coolant at the proper level is essential to engine service life. Improper coolant level will affect the engine's cooling capability and damage engine components. Daily checks will allow the inspector to identify changes in coolant level that might indicate cooling system problems.

**CAUTION** Burn hazard. Beware of hot engine parts and coolant. Contact with hot engine parts and/or coolant may cause severe burns.

- 1 Check the fluid level in the coolant recovery tank. Add fluid as needed.

⦿ Result: The fluid level should be at the FULL mark.

**NOTICE** Bodily injury hazard. Fluids in the radiator are under pressure and extremely hot. Use caution when removing cap and adding fluids.

## Check the Batteries



Proper battery condition is essential to good engine performance and operational safety. Improper fluid levels or damaged cables and connections can result in engine component damage and hazardous conditions.

**NOTICE** This procedure does not need to be performed on machines with sealed or maintenance-free batteries.

**WARNING** Electrocutation hazard. Contact with hot or live circuits may result in death or serious injury. Remove all rings, watches and other jewelry.

**WARNING** Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

- 1 Put on protective clothing and eye wear.
- 2 Be sure that the battery cable connections are tight and free of corrosion.
- 3 Be sure that the battery hold-down bar is in place.
- 4 Remove the battery vent caps.
- 5 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
- 6 Install the vent caps.

**NOTICE** Adding terminal protectors and a corrosion preventative sealant will help eliminate corrosion on the battery terminals and cables.



## MAINTENANCE

## Check the Tire Pressure



**NOTICE** This procedure does not need to be performed on machines equipped with the foam-filled tire option.

**⚠ WARNING** Bodily injury hazard. An over-inflated tire can explode and could cause death or serious injury.

**⚠ WARNING** Tip-over hazard. Do not use temporary flat tire repair products.

To safeguard maximum stability, achieve optimum machine handling and minimize tire wear, it is essential to maintain proper pressure in all air-filled tires.

- 1 Check each tire with an air pressure gauge. Add air as needed.

Tire specifications	Industrial	Rough Terrain
Tire size	32 x 12-15 NHS 300-15 NHS	15-19.5 NHS
Pressure	110 psi 7.6 bar	60 psi 4.14 bar

## Scheduled Maintenance

Maintenance performed quarterly, annually and every two years must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.

# Function Tests



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## Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
  - 1 Avoid hazardous situations.
  - 2 Always perform a pre-operation inspection.
  - 3 Always perform function tests prior to use.**
- Know and understand the function tests before going on to the next section.**
  - 4 Inspect the workplace.
  - 5 Only use the machine as it was intended.

## Fundamentals

The Function Tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

## Symbol Legend

- ⦿ Indicates that a specific result is expected after performing a series of steps.

## FUNCTION TESTS

- 1 Select a test area that is firm, level and free of obstruction.

### At the Ground Controls

- 2 Turn the key switch to ground control.
- 3 Pull out the red Emergency Stop button to the ON position.
- ⊙ Result: The beacon (if equipped) should flash.
- 4 Start the engine. See Operating Instructions section.

#### Test Emergency Stop

- 5 Push in the red Emergency Stop button to the OFF position.
- ⊙ Result: The engine should turn off and all functions should not operate.  
Deutz Diesel models: The engine will shut off after 2 to 3 seconds.
- 6 Pull out the red Emergency Stop button to the ON position and restart the engine.

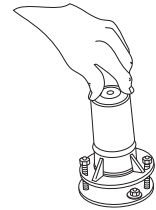
#### Test the Machine Functions

- 7 Do not hold the function enable switch to either side. Attempt to activate each boom and platform function toggle switch.
- ⊙ Result: All boom and platform functions should not operate.
- 8 Hold the function enable switch to either side and activate each boom and platform function toggle switch.
- ⊙ Result: All boom and platform functions should operate through a full cycle. The descent alarm (if equipped) should sound while the boom is lowering.

Machines equipped with Platform Level Control Disable Function: The platform level toggle switch will not operate when the primary boom is raised or extended or the secondary boom is raised past the drive speed limit switches.

#### Test the Tilt Sensor

- 9 Pull out the platform red Emergency Stop button to the ON position.
- 10 Turn the key switch to platform control.
- 11 Open the control panel side turntable cover and locate the tilt sensor next to the control box.
- 12 Press down one side of the tilt sensor.
- ⊙ Result: The alarm, located in the platform, should sound.



#### Test Auxiliary Controls

- 13 Turn the key switch to ground control and shut the engine off.
- 14 Pull out the red Emergency Stop button to the ON position.
- 15 Simultaneously hold the auxiliary power switch on and activate each boom function toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

- ⊙ Result: All boom functions should operate.

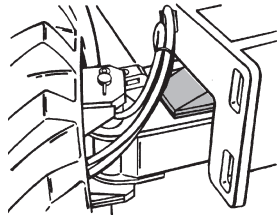
Machines equipped with oscillating axles: From the stowed position, auxiliary power can not raise the primary boom above the drive limit switch. Auxiliary power can raise the primary boom if it is already raised above the drive limit switch.

## FUNCTION TESTS

**Test Oscillate Lock-out (if equipped)**

16 Start the engine and raise the primary boom approximately 2 feet / 61 cm.

- ⦿ Result: The oscillation lock-out wedges should fully extend.



17 Lower the primary boom to the stowed position.

- ⦿ Result: The oscillation lock-out wedges should fully retract.

18 Extend the primary boom approximately 2 ft / 61 cm.

- ⦿ Result: The oscillation lock-out wedges should fully extend.

19 Fully retract the primary boom.

- ⦿ Result: The oscillation lock-out wedges should fully retract.

20 Raise the secondary boom approximately 2 feet / 61 cm.

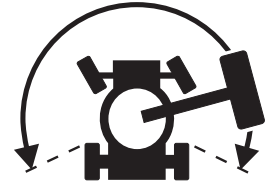
- ⦿ Result: The oscillation lock-out wedges should fully extend.

21 Lower the secondary boom to the stowed position.

- ⦿ Result: The oscillation lock-out wedges should fully retract.

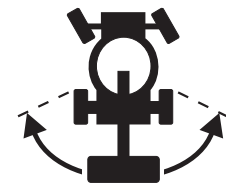
22 Rotate the turntable so that the primary boom moves to one side of the drive chassis.

- ⦿ Result: The oscillation lock-out wedges should fully extend when the primary boom moves past either of the non-steer wheels.



- 23 Rotate the turntable back to the stowed position with the primary boom between the non-steer wheels.

- ⦿ Result: The oscillation lock-out wedges should fully retract when the primary boom is between the non-steer wheels.



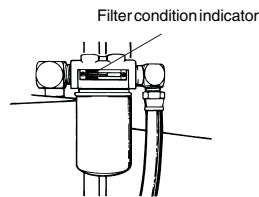
## FUNCTION TESTS

**At the Platform Controls****Test Emergency Stop**

- 24 Turn the key switch to platform control and restart the engine.
- 25 Push in the platform red Emergency Stop button to the OFF position.
- ⊙ Result: The engine should turn off and all functions should not operate.  
Deutz Diesel models: The engine will shut off after 2 or 3 seconds.
- 26 Pull out the red Emergency Stop button and restart the engine.

**Test the Hydraulic Oil Return Filter**

- 27 Move the engine idle select switch to high idle (rabbit symbol).
- 28 Locate and check the hydraulic filter condition indicator.
- ⊙ Result: The filter should be operating with the plunger in the green area.
- 29 Move the engine idle select switch to foot switch activated high idle (rabbit and foot switch symbol).

**Test the Foot Switch**

- 31 Push in the platform red Emergency Stop button to the OFF position.
- 32 Pull out the red Emergency Stop button to the ON position but do not start the engine.
- 33 Press down the foot switch and attempt to start the engine by moving the start toggle switch to either side.
- ⊙ Result: The engine should not start.
- 34 Do not press down the foot switch and restart the engine.
- ⊙ Result: The engine should start.
- 35 Move the lift/drive select switch to the lift position.
- 36 Do not press down the foot switch. Test each machine function.
- ⊙ Result: The machine functions should not operate.

**Test the Horn**

- 30 Push the horn button.
- ⊙ Result: The horn should sound.

## FUNCTION TESTS

**Test the Machine Functions**

- 37 Move the lift/drive select switch (if equipped) to the lift position.
- 38 Press down the foot switch.
- 39 Activate each machine function control handle or toggle switch.
- ⦿ Result: All boom/platform functions should operate through a full cycle.

Machines equipped with Platform Level Control Disable Function: The platform level toggle switch will not operate when the primary boom is raised or extended or the secondary boom is raised past the drive speed limit switches.

**Test the Steering**

- 40 Move the lift/drive select switch (if equipped) to the drive position.
- 41 Press down the foot switch.
- 42 Depress the thumb rocker switch on top of the drive control handle in the direction identified by the blue triangle on the control panel.
- ⦿ Result: The steer wheels should turn in the direction that the blue triangles point on the drive chassis.
- 43 Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.
- ⦿ Result: The steer wheels should turn in the direction that the yellow triangles point on the drive chassis.

**Test Drive and Braking**

- 44 Move the lift/drive select switch (if equipped) to the drive position.
- 45 Press down the foot switch.
- 46 Slowly move the drive control handle in the direction indicated by the blue arrow on the control panel until the machine begins to move, then return the handle to the center position.
- ⦿ Result: The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.
- 47 Slowly move the drive control handle in the direction indicated by the yellow arrow on the control panel until the machine begins to move, then return the handle to the center position.
- ⦿ Result: The machine should move in the direction that the yellow arrow points on the drive chassis, then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

**Test the Drive Enable System**

- 48 Move the lift/drive select switch (if equipped) to the lift position.
- 49 Press down the foot switch and lower the boom to the stowed position.
- 50 Rotate the turntable until the primary boom moves past one of the non-steer wheels.
- ⦿ Result: The drive enable indicator light should come on and remain on while the boom is anywhere in the range shown.



## FUNCTION TESTS

51 Move the lift/drive select switch (if equipped) to the drive position.

52 Move the drive control handle off center.

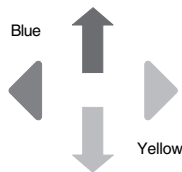
⦿ Result: The drive function should not operate.

53 Move and hold the drive enable toggle switch to either side and slowly move the drive control handle off center.

⦿ Result: The drive function should operate.

Note: When the drive enable system is in use, the machine may drive in the opposite direction that the drive and steer control handle is moved.

Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction of travel.

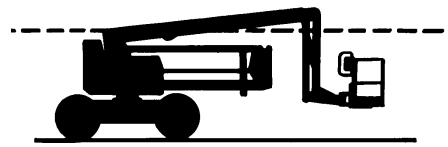


### Test Limited Drive Speed

54 Move the lift/drive select switch (if equipped) to the lift position.

55 Press down the foot switch.

56 Raise the primary boom approximately 2 feet / 61 cm.



57 Move the lift/drive select switch (if equipped) to the drive position.

58 Slowly move the drive control handle to the full drive position.

⦿ Result: The maximum achievable drive speed with the primary boom raised should not exceed 1 foot / 30 cm per second.

59 Move the lift/drive select switch (if equipped) to the lift position.

60 Lower the primary boom to the stowed position.

61 Extend the primary boom approximately 2 ft / 61 cm.

62 Move the lift/drive select switch (if equipped) to the drive position.

63 Slowly move the drive control handle to the full drive position.

⦿ Result: The maximum achievable drive speed with the primary boom extended should not exceed 1 foot / 30 cm per second.

## FUNCTION TESTS

- 64 Move the lift/drive select switch (if equipped) to the lift position.
- 65 Retract the primary boom to the stowed position.
- 66 Raise the secondary boom approximately 2 feet / 61 cm.
- 67 Move the lift/drive select switch (if equipped) to the drive position.
- 68 Slowly move the drive control handle to the full drive position.
  - ⦿ Result: The maximum achievable drive speed with the secondary boom raised should not exceed 1 foot / 30 cm per second.
- 69 Move the lift/drive select switch (if equipped) to the lift position.
- 70 Lower the secondary boom to the stowed position.

Note: If the drive speed with the primary boom raised or extended or the secondary boom raised exceeds 1 foot / 30 cm per second, immediately tag and remove the machine from service.

**Test Auxiliary Controls**

- 71 Shut the engine off.
- 72 Pull out the red Emergency Stop button to the ON position.
- 73 Move the lift/drive select switch (if equipped) to the lift position.
- 74 Press down the foot switch.
- 75 Simultaneously hold the auxiliary power switch on and activate each function control handle or toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

- ⦿ Result: All boom and steer functions should operate. Drive functions should not operate with auxiliary power.

**Test the Lift/Drive Select Switch (if equipped)**

- 76 Move the lift/drive select switch (if equipped) to the lift position.
- 77 Press down the foot switch.
- 78 Move the drive control handle off center.
  - ⦿ Result: The drive function should not operate.
- 79 Activate each boom function toggle switch.
  - ⦿ Result: All boom functions should operate.
- 80 Move the lift/drive select switch (if equipped) to the drive position.
- 81 Press down the foot switch.
- 82 Activate each boom function toggle switch.
  - ⦿ Result: The boom functions should not operate.
- 83 Move the drive control handle off center.
  - ⦿ Result: The drive function should operate.
- 84 Repair any malfunctions before operating the machine.



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# Workplace Inspection



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## Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.

### 4 Inspect the workplace.

**Know and understand the workplace inspection before going on to the next section.**

- 5 Only use the machine as it was intended.

## Fundamentals

The Workplace Inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

## Workplace Inspection

Be aware of and avoid the following hazardous situations:

- drop-offs or holes
- bumps, floor obstructions or debris
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

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# Operating Instructions



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## Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
  - 1 Avoid hazardous situations.
  - 2 Always perform a pre-operation inspection.
  - 3 Always perform function tests prior to use.
  - 4 Inspect the workplace.
  - 5 **Only use the machine as it was intended.**

## Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

Using the machine for anything other than lifting personnel and tools to an aerial work site is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's, safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

## OPERATING INSTRUCTIONS

## Starting the Engine

- 1 At the ground controls, turn the key switch to the desired position.
- 2 Be sure both the ground and platform control red Emergency Stop buttons are pulled out to the ON position.
- 3 Gasoline/LPG models: Choose fuel by moving the fuel select switch to the desired position.
- 4 Move the engine start toggle switch to either side. If the engine fails to start or dies, the restart delay will disable the start switch for 3 seconds.



If the engine fails to start after 15 seconds of cranking, determine the cause and repair any malfunction. Wait 60 seconds before trying to start again.

All models: In extreme cold conditions, 20°F (-6°C) and below, warm the engine for 5 minutes to prevent hydraulic system damage.

## Emergency Stop

Push in either the ground or platform red Emergency Stop button to the OFF position to stop all functions and turn the engine off.

Repair any function that operates when the red Emergency Stop button is pushed in.

Selecting and operating the ground controls will override the platform red Emergency Stop button.

## Auxiliary Controls

Use auxiliary power only if the primary power source (engine) fails.

- 1 Turn the key switch to ground or platform control.
- 2 Pull out the red Emergency Stop button to the ON position.
- 3 Move the lift/drive select switch (if equipped) to the lift position.
- 4 Press down the foot switch when operating the auxiliary controls from the platform.
- 5 Simultaneously hold the auxiliary power switch on and activate the desired function.

The drive function will not operate with auxiliary power.

## Operation from Ground

- 1 Turn the key switch to ground control.
- 2 Pull out the red Emergency Stop button to the ON position.
- 3 Start the engine.

### To Position Platform

- 1 Hold the function enable switch to either side.
- 2 Move the appropriate toggle switch according to the markings on the control panel.

Drive and steer functions are not available from the ground controls.

Machines equipped with Platform Level Control Disable Function: The platform level toggle switch will not operate when the primary boom is raised or extended or the secondary boom is raised past the drive speed limit switches.

## OPERATING INSTRUCTIONS

**Operation from Platform**

- 1 Turn the key switch to platform control.
- 2 Pull out both the ground and platform red Emergency Stop buttons to the ON position.
- 3 Start the engine. Do not press down the foot switch when starting the engine.

**To Position Platform**

- 1 Move the lift/drive select switch (if equipped) to the lift position.
- 2 Press down the foot switch.
- 3 Slowly move the appropriate function control handle or toggle switch according to the markings on the control panel.

Machines equipped with Platform Level Control Disable Function: The platform level toggle switch will not operate when the primary boom is raised or extended or the secondary boom is raised past the drive speed limit switches.

**To Steer**

- 1 Move the lift/drive select switch (if equipped) to the drive position.
- 2 Press down the foot switch.
- 3 Turn the steer wheels with the thumb rocker switch located on top of the drive control handle.

Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction the wheels will turn.

**To Drive**

- 1 Move the lift/drive select switch (if equipped) to the drive position.
- 2 Press down the foot switch.
- 3 Increase speed: Slowly move the drive control handle off center.

Decrease speed: Slowly move the drive control handle toward the center.

Stop: Return the drive control handle to the center or release the foot switch.

Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction the machine will travel.

Machine travel speed is restricted when the booms are raised or extended or the turntable is rotated.

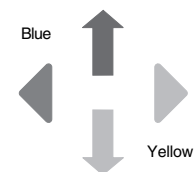
**Drive Enable**

Light ON indicates that the primary boom has moved just past either non-steer wheel and the drive function has been interrupted.

To drive, hold the drive enable switch to either side and slowly move the drive control handle off center.

Be aware that the machine may move in the opposite direction that the drive and steer controls are moved.

Always use the color-coded direction arrows on the platform controls and drive chassis to identify the direction the machine will travel.



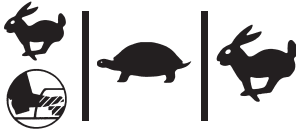
## OPERATING INSTRUCTIONS

**Drive Speed Select**

- Machine on incline symbol: Low range operation for inclines
- Machine on level surface symbol: High range operation for maximum drive speed

**Engine Idle Select (rpm)**

Select engine idle (rpm) using the symbols on the control panel.



- Rabbit and foot switch symbol: foot switch activated high idle
- Turtle symbol: low idle
- Rabbit symbol: high idle

**Generator**

To operate the generator, move the generator toggle switch to the generator position. The engine will continue to run but no drive or platform functions will operate.

Plug a power tool into the power to platform GFCI outlet.

To resume machine functions, move the generator toggle switch to the machine functions position. All functions will operate.

**Oscillating Axles (if equipped)**

Oscillating axles will lock out automatically when the boom is raised or extended, or the turntable is rotated.

**Check Engine Light (if equipped)**

Light on and engine stopped: Tag the machine and remove from service.

Light on and engine still running: Contact service personnel within 24 hours.

**Stopping the Engine**

Push in the red Emergency Stop button and turn the key switch to the OFF position.

**After Each Use**

- 1 Select a safe parking location—firm level surface, clear of obstruction and traffic.
- 2 Retract and lower the boom to the stowed position.
- 3 Rotate the turntable so that the boom is between the non-steer wheels.
- 4 Turn the key switch to the OFF position and remove the key to secure from unauthorized use.
- 5 Chock the wheels.

# Decals

## Decal Inspection

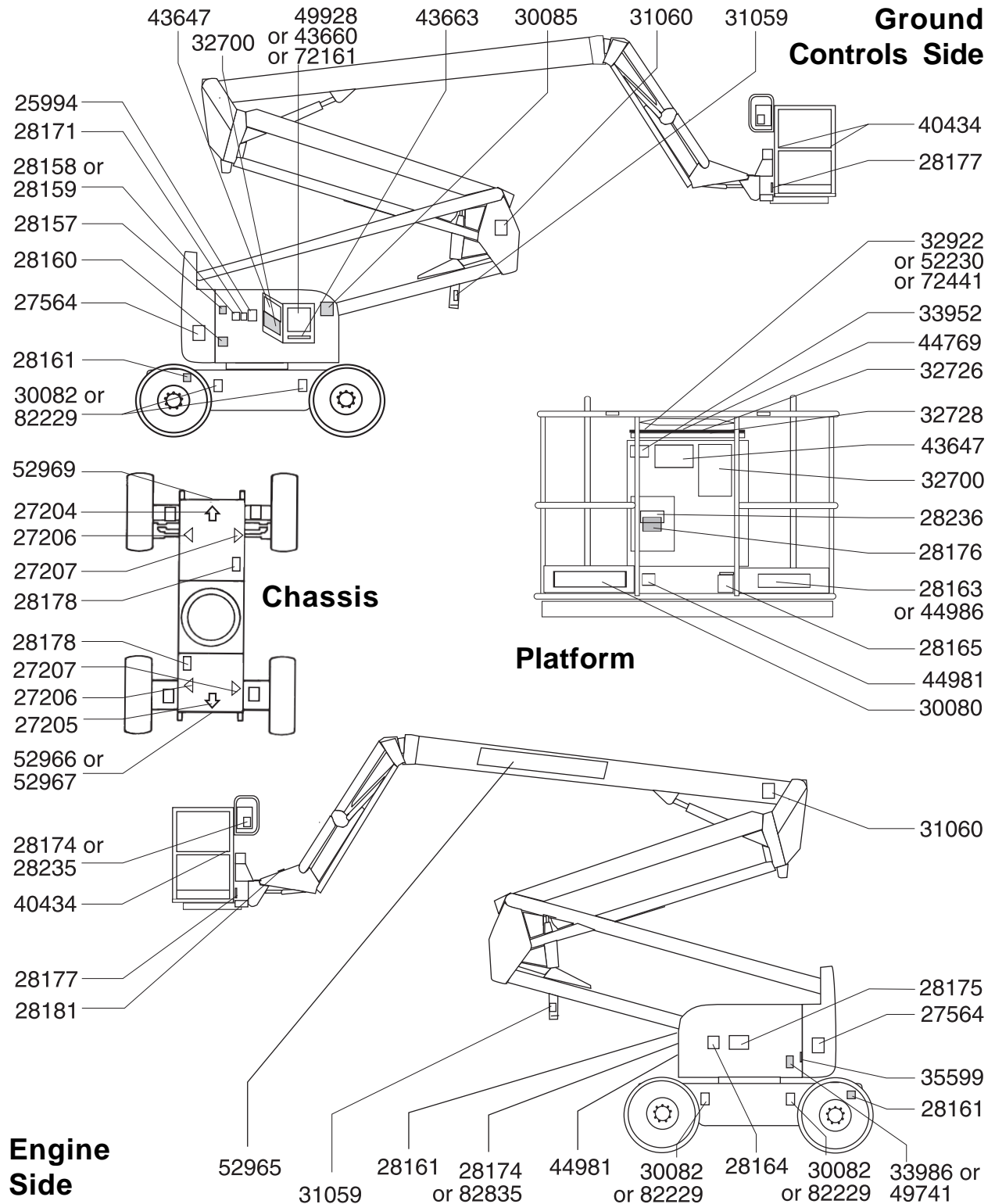
Use the pictures on the next page to verify that all decals are legible and in place.

Below is a numerical list with quantities and descriptions.

Part No.	Decal Description	Quantity
25994	Caution - Component Damage Hazard	1
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle- Blue	2
27207	Triangle - Yellow	2
27564	Danger - Electrocution Hazard	2
28157	Label - Dexron	1
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas	2
28161	Danger - Crushing Hazard	3
28163	Notice - Maximum Side Force 150 lbs / 667 N, ANSI & CSA	1
28164	Notice - Hazardous Materials	1
28165	Notice - Foot Switch	1
28171	Label - No Smoking	1
28174	Label - Power to Platform, 230V	2
28175	Caution - Compartment Access	1
28176	Notice - Missing Manuals	1
28177	Warning - Platform Rotate	2
28178	Warning - Shear Point	2
28181	Warning - No Step or Ride	1
28235	Label - Power to Platform, 115V	2
28236	Warning - Failure To Read . . .	1
30080	Notice - Maximum Load 500 lbs / 227 kg	1
30082	Notice - Tire Specifications	4
31059	Warning - Collision	2
31060	Danger - Tip-over Hazard, Interlock	2

Part No.	Decal Description	Quantity
32700	Danger - General Safety Rules	2
32726	Label - Glow Plug (option)	1
32728	Label - Generator (option)	1
32922	Platform Control Panel	1
33952	Danger - Tilt-Alarm	1
33986	Notice - Deutz Diesel Engine Specs	1
35599	Notice - Align Air Hoses	1
40434	Label - Lanyard Anchorage	3
43647	Notice - Operating Instructions	2
43660	Ground Control Panel	1
43663	Notice - Function Enable	1
49741	Notice - Ford Engine Specs-LRG-425 EFI	1
44769	Label - Lift/Drive Select (option)	1
44981	Label - Air Line to Platform	2
44986	Notice - Maximum Manual Force 90 lbs / 400 N, CE	1
49928	Ground Control Panel	1
52230	Platform Control Panel	1
52966	Cosmetic - 4 x 2	1
52967	Cosmetic - 4 x 4	1
52965	Cosmetic - Genie Z-60/34	1
52969	Cosmetic - Genie Boom	1
72161	Ground Control Panel	1
72441	Platform Control Panel	1
82229	Notice, Tire Specifications	4

DECALS



# Transport Instructions



## Observe and Obey:

- ☑ The transport vehicle must be parked on a level surface.
- ☑ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- ☑ Be sure the vehicle capacity and loading surfaces are sufficient to support the machine weight. See Specifications section.

## Securing to Truck or Trailer for Transit

Always use the turntable rotation lock each time the machine is transported.

Always chock the machine wheels in preparation for transport.

Use the tie points on the drive chassis for anchoring down to the transport surface.

Use chains or straps of ample load capacity.

Use the lower platform mount between the boom end and the platform to secure the boom from side-to-side movement. Do not use excessive downward force when securing the boom section.

Turn the key switch to the OFF position and remove the key before transporting.

Inspect the entire machine for loose or unsecured items.

## Free-wheel Configuration for Winching

Chock the wheels to prevent the machine from rolling.

Release the non-steer wheel brakes by turning over the torque hub disconnect caps (detail 1).

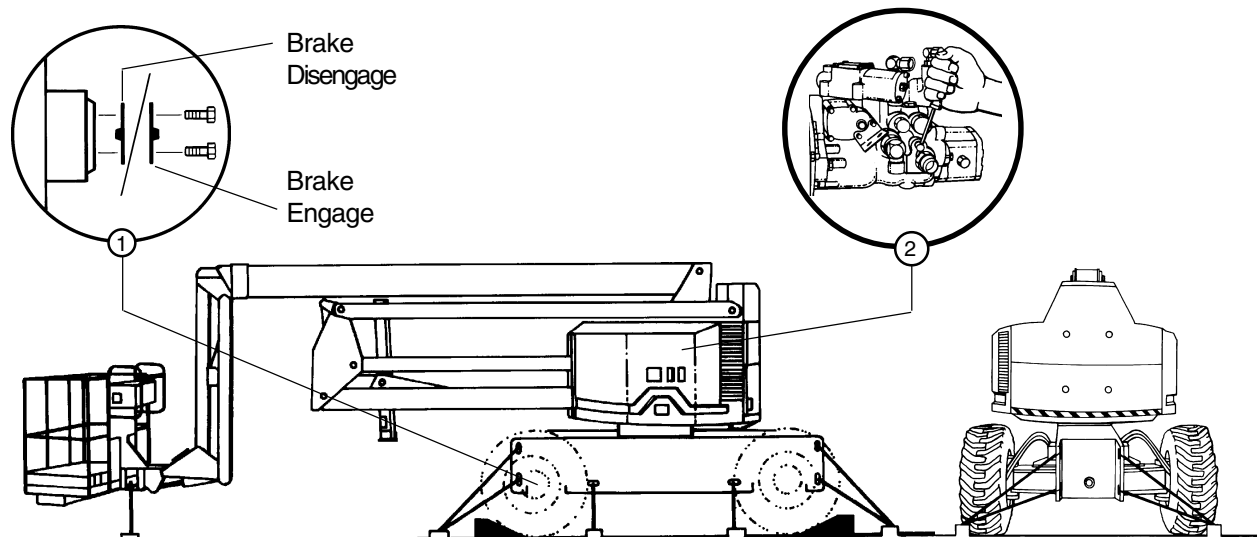
4WD models: Open the pump free-wheel valve by turning counterclockwise two turns (detail 2).

Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstruction.

Reverse the procedures described for details 1 and 2 to re-engage the brakes.

2WD models: The pump free-wheel valve should always remain closed.

Note: Towing the Genie Z-60/34 is not recommended. If the machine must be towed, do not exceed 2 mph / 3.2km/h.

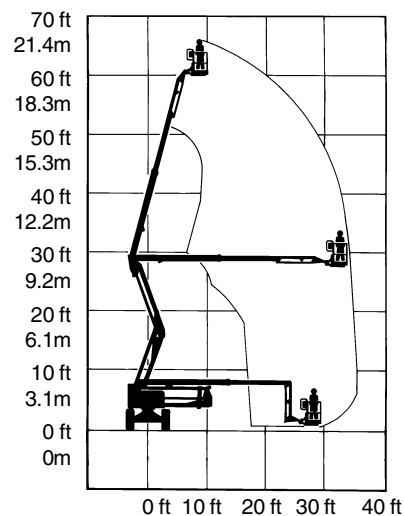




# Specifications

Model	2WD Industrial	2WD/4WD RoughTerrain
Height, working maximum	66 ft 20.1m	66 ft 20.1m
Height, platform maximum	60 ft 18.3 m	60 ft 18.3 m
Height, stowed maximum	8 ft 1 in 2.4 m	8 ft 4 in 2.5 m
Horizontal reach maximum	34 ft 10.4 m	34 ft 10.4 m
Width	7 ft 2.1 m	7 ft 6 in 2.3 m
Length, stowed	26 ft 7.9 m	26 ft 7.9 m
Maximum load capacity 6 foot platform	500 lbs 227 kg	500 lbs 227 kg
Maximum load capacity 8 foot platform	500 lbs 227 kg	500 lbs 227 kg
Wheelbase	7 ft 11 in 2.41 m	7 ft 9 in 2.36 m
Turning radius (outside)	13.5 ft 4.1 m	19.5 ft 5.9 m
Turning radius (inside)	4 ft 1.2 m	11 ft 3.4 m
Turntable rotation (degrees)		continuous
Turntable tailswing	0	0
Power source (choice)	Ford 63 Hp Gasoline/LPG LRG-423 or LRG-425 EFI Deutz 56 Hp Diesel F4L 1011	
Drive speed, stowed gasoline/LPG models	0 to 3.5 mph 0 to 5.6 km/h	0 to 4.5 mph 0 to 7.2 km/h
Drive speed, stowed Deutz Diesel models	0 to 3.0 mph 0 to 4.8 km/h	0 to 3.9 mph 0 to 6.3 km/h
Drive speed, booms raised or extended - all models	0 to 0.6 mph 0 to 1.0 km/h	0 to 0.6 mph 0 to 1.0 km/h
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)	80 dB	

Model	2WD Industrial	2WD/4WD RoughTerrain
Controls	12V DC proportional	
Platform dimensions, 6 foot (width x length)	30 x 72 in 76 cm x 1.8 m	30 x 72 in 76 cm x 1.8 m
Platform dimensions, 8 foot (width x length)	36 x 96 in 91cm x 2.4 m	36 x 96 in 91cm x 2.4 m
Platform leveling	self-leveling	self-leveling
Platform rotation	180°	180°
AC outlet in platform	standard	standard
Hydraulic pressure, maximum (boom functions)	2500 psi 172 bar	2500 psi 172 bar
Tires	32 x 12-15 20-ply 300-15	15 x 19.5 12-ply
Gradeability, stowed	30%	20% / 35%
Ground clearance	9 in 23 cm	12 in 30 cm
Fuel tank capacity	20 gallons 76 liters	20 gallons 76 liters
Weight (Machine weights vary with option configurations)	See Serial Plate	



**Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice or obligation.**

# California Proposition 65

# WARNING

The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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