

# Operator's Manual

with Maintenance Information

Fourth Edition Third Printing Part No. 1000048

Z<sup>-</sup>34/22

from 4685 to 7773

IC Power

#### **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 should be 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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# **Safety Rules**



#### Danger

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

#### **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 the manufacturer's instructions and safety rules—safety and operator's manuals and machine decals.
- ✓ You read, understand and obey employer's safety rules and worksite regulations.
- You read, understand and obey all applicable governmental regulations.
- ✓ You are properly trained to safely operate the machine.

#### **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<br>Phase to Phase | Minimum Safe<br>Approach Distance<br>Feet Meters |       |
|---------------------------|--|-------|
| 0 to 300V                 | Avoid Contact                                    |       |
| 300V to 50KV              | 10   | 3.05  |
| 50KV to 200KV             | 15   | 4.60  |
| 200KV to 350KV            | 20   | 6.10  |
| 350KV to 500KV            | 25   | 7.62  |
| 500KV to 750KV            | 35   | 10.67 |
| 750KV to 1000KV           | 45   | 13.72 |

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 operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

#### **Tip-over Hazards**

Occupants, equipment and materials shall not exceed the maximum platform capacity.

| Maximum platform capacity | 500 lbs | 227 kg |
|---------------------------|---------|--------|
| Maximum occupants         |         | 2      |

The weight of options and accessories, such as pipe cradles, panel cradles and welders, will reduce the rated platform capacity and must be factored into the total platform load. See the decals on the options.





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.

Do not alter or disable the limit switches.

**CE and Australia Markets:** Do not use air-filled tires. These machines are equipped with foam-filled tires. Wheel weight and proper counterweight configuration are critical to stability.

Do not drive over 0.6 mph / 1 km/h with the primary boom raised or extended or the secondary boom raised.

Do not raise the boom when wind speeds may exceed 28 mph / 12.5 m/s. If wind speeds exceed 28 mph / 12.5 m/s when the boom is raised, lower the boom and do not continue to operate the machine.

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.



Use extreme care and slow speeds while driving the machine in 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 drive the machine on a slope that exceeds the maximum uphill, downhill or side slope rating of the machine. Slope rating applies only to machines in the stowed position.

| Maximum slope rating, stowed position, 2WD |  |  |
|--|--|--|
| 1 position, 211 b                          |  |  |
| 37%  | 20°  |  |
| 20%  | 11°  |  |
| 25%  | 14°  |  |
| l position, 4WD                            |  |  |
| 45%  | 24°  |  |
| 40%  | 22°  |  |
| 25%  | 14°  |  |
|  | 37%<br>20%<br>25%<br>I position, 4WD<br>45%<br>40% |  |

Note: Slope rating is subject to ground conditions and adequate traction.

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



Maximum allowable side force - ANSI & CSA

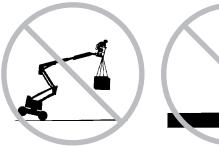
150 lbs / 667 N

Maximum allowable manual force - CE 90 lbs / 400 N

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 place or attach overhanging loads to any part of this machine.





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

Do not transport tools and materials unless they are evenly distributed and can be safely handled by person(s) in the platform.

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

Do not modify or alter an aerial work platform without prior written permission from the manufacturer. 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.

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.

#### **Fall Hazards**



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

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



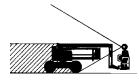


Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

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

#### **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 the work area for overhead obstructions or other possible hazards.





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

Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.

Observe and use 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.

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.

No stunt driving or horseplay while operating a machine.

#### **Component Damage Hazard**

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

Do not use the machine as a ground for welding.

#### **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.

Do not spray ether into engines equipped with glow plugs.

#### **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 appropriate 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.

#### **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.

Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. Access by the operator is only advised when performing a pre-operation inspection. All compartments must remain closed and secured during operation.

#### **Battery Safety**

#### **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 batteries. Batteries emit explosive gas.

#### **Electrocution Hazard**

Avoid contact with electrical terminals.

#### **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.

# AWARNING

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

#### A CAUTION A

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.

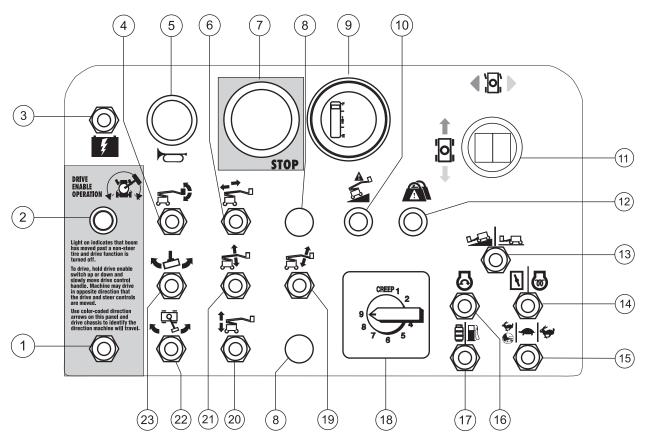
#### **CAUTION**

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

#### NOTICE

Green—used to indicate operation or maintenance information.

### **Controls**



#### **Platform Control Panel**

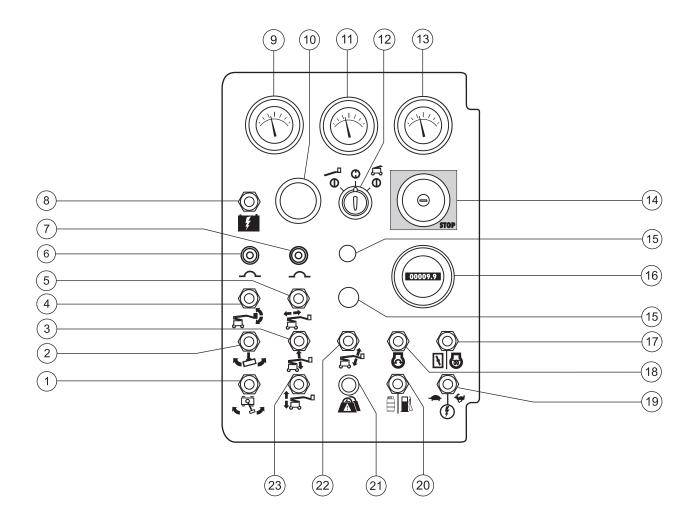
- 1 Drive enable switch
- 2 Drive enable indicator light
- 3 Auxiliary power switch
- 4 Platform level switch
- 5 Horn button
- 6 Primary boom extend/retract switch
- 7 Red Emergency Stop button
- 8 Not used
- 9 Battery charge indicator (option)

- 10 Machine not level indicator light (if equipped)
- 11 Proportional control handle for drive function and thumb rocker for steer function
- 12 Platform overload indicator light (if equipped)
- 13 Drive speed select switch
- 14 Gasoline/LPG models: Choke switch Diesel models: Glow plug switch (option)
- 15 Engine idle (rpm) select switch
  - Rabbit & foot switch: foot switch activated high idle
  - · Turtle: low idle
  - · Rabbit: high idle

- 16 Engine start switch
- 17 Gasoline/LPG models: Gasoline/LPG select switch
- 18 Boom function speed controller
- 19 Jib boom up/down switch
- 20 Secondary boom up/down switch
- 21 Primary boom up/down switch
- 22 Turntable rotate switch
- 23 Platform rotate switch

#### Genie

#### **CONTROLS**



#### **Ground Control Panel**

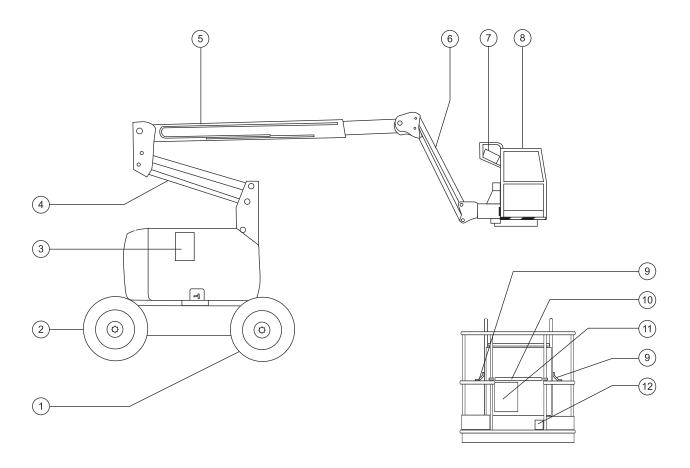
- 1 Turntable rotate switch
- 2 Platform rotate switch
- 3 Primary boom up/down switch
- 4 Platform level switch
- 5 Primary boom extend/ retract switch
- 6 10A breaker for engine electrical circuits
- 7 10A breaker for control electrical circuits
- 8 Auxiliary power switch

- 9 Gasoline/LPG models: Water temperature gauge Diesel models: Oil temperature gauge
- 10 Travelalarm
- 11 Oil pressure gauge
- 12 Key switch for platform/off/ ground selection
- 13 Voltage gauge
- 14 Red Emergency Stop button
- 15 Not used
- 16 Hourmeter

- 17 Gasoline/LPG models: Choke switch Diesel models: Glow plug switch (option)
- 18 Engine start switch
- 19 Function enable switch
- 20 Gasoline/LPG models: Fuel select switch
- 21 Platform overload indicator light (if equipped)
- 22 Jib boom up/down switch
- 23 Primary boom extend/ retract switch

#### Genie.

# Legend



- 1 Non-steer tire
- 2 Steer tire
- 3 Ground controls
- 4 Secondary boom
- 5 Primary boom
- 6 Jib boom
- 7 Platform controls

- 8 Platform
- 9 Lanyard anchorage point
- 10 Sliding mid-rail
- 11 Manual storage container
- 12 Foot switch

# **Pre-operation Inspection**



#### 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.

If damage or any unauthorized 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**

☐ Engine and related components ☐ Be sure that the operator's, safety and responsibilities manuals are complete, legible □ Limit switches and in the storage container located on the Nuts, bolts and other fasteners platform. ☐ Platform entry mid-rail/gate ☐ Be sure that all decals are legible and in place. See Decals section. Beacon and alarms (if equipped) ☐ Check for engine oil leaks and proper fluid Check entire machine for: level. Add oil if needed. See Maintenance Cracks in welds or structural components section. Dents or damage to machine ☐ Check for engine coolant leaks and proper fluid level. Add coolant if needed. See Maintenance ☐ Be sure that all structural and other critical section. components are present and all associated fasteners and pins are in place and properly ☐ Check for hydraulic oil leaks and proper oil level. tightened. Add oil if needed. See Maintenance section. ☐ After you complete your inspection, be sure that Check for battery fluid leaks and proper fluid all compartment covers are in place and level. Add distilled water if needed. See latched. Maintenance section. ☐ Check for proper tire pressure. Add air if needed. See Maintenance section. Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications: ☐ Electrical components, wiring and electrical cables ☐ Hydraulic power unit, reservoir, hoses, fittings, cylinders and manifolds ☐ Generator, belts and related components ☐ Fuel and hydraulic tanks ☐ Drive and turntable motors and torque hubs ■ Boom wear pads □ Tires and wheels

#### **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**



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.

#### 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 the boom is in the stowed position.
- 2 Visually inspect the site gauge located on the side of the hydraulic tank.
- Result: The hydraulic oil level should be within the FULL and ADD marks on the hydraulic tank.
- 3 Add oil if necessary.

#### Hydraulic oil specifications

Hydraulic oil type

Chevron Rykon Premium MV equivalent

#### **Check the Engine Coolant Level**



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.

- 1 Check the fluid level in the coolant recovery tank.
- Result: The fluid level should be in the NORMAL range.
- 2 Add fluid if necessary.

#### **MAINTENANCE**

#### **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.



Check the oil level with the engine off.

1 Check the oil level dipstick. Add oil as needed.

| Kubota Engine DF-752-E2  |        |
|--------------------------|--------|
| Oil type                 | 10W-30 |
| Kubota Engine D-905 B-22 |        |
| Oil type                 | 10W-30 |
| Perkins Engine 404C-11   |        |
| Oil type                 | 15W-40 |

#### 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.



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 bracket is tight.
- 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.

**MAINTENANCE** 

#### **Check the Tire Pressure**



NOTICE

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

**AWARNING** 

Bodily injury hazard. An overinflated tire can explode and may cause death or serious injury.

**AWARNING** 

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 and add air as needed.

| Tire pressure       |         |          |
|---------------------|---------|----------|
| Industrial tire     | 100 psi | 6.89 bar |
| Rough terrain tire  | 45 psi  | 3.1 bar  |
| High flotation tire | 44 psi  | 3.0 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**



#### **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.

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 the 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.
- 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.

#### **Test the Tilt Sensor**

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

#### **Test Auxiliary Controls**

- 12 Turn the key switch to ground control and shut the engine off.
- 13 Pull out the red Emergency Stop button to the on position.
- 14 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.

#### At the Platform Controls

#### **Test the Emergency Stop**

- 15 Turn the key switch to platform control and restart the engine.
- 16 Push in the platform red Emergency Stop button to the off position.
- Result: The engine should turn off and all functions should not operate.
- 17 Pull out the red Emergency Stop button and restart the engine.

#### **Test the Horn**

- 18 Push the horn button.
- Result: The horn should sound.

#### **Test the Foot Switch**

- 19 Push in the platform red Emergency Stop button to the off position.
- 20 Pull out the red Emergency Stop button to the on position but do not start the engine.
- 21 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.
- 22 Do not press down the foot switch and start the engine.
- 23 Do not press down the foot switch. Test each machine function.
- Result: The machine functions should not operate.

#### **Test Machine Functions**

- 24 Press down the foot switch.
- 25 Activate each machine function control handle or toggle switch.
- Result: All boom and platform functions should operate through a full cycle.

Note: Control the speed of boom functions by adjusting the boom function speed controller. Drive and steer functions are not affected by the boom function speed controller.

#### **Test the Steering**

- 26 Press down the foot switch.
- 27 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.
- 28 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.

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#### **Test Drive and Braking**

- 29 Press down the foot switch.
- 30 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 travel alarm should sound. The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.
- 31 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 travel alarm should sound. 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**

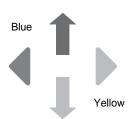
- 32 Press down the foot switch.
- 33 Retract the primary boom to the stowed position.
- 34 Rotate the turntable until the boom moves past one of the non-steer wheels.
- Result: The drive enable indicator light should come on and remain on while the boom is anywhere in the range shown.



- 35 Move the drive control handle off center.
- Result: The drive function should not operate.
- 36 Move and hold the drive enable toggle switch up or down 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.



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#### **Test Limited Drive Speed**

- 37 Press down the foot switch.
- 38 Raise the primary boom 1 foot / 30 cm.
- 39 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.
- 40 Lower the boom to the stowed position.
- 41 Raise the secondary boom 1 foot / 30 cm.
- 42 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.
- 43 Lower the boom to the stowed position.
- 44 Extend the primary boom 1 foot / 30 cm.
- 45 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.

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**

- 46 Shut off the engine.
- 47 Pull out the red Emergency Stop button to the on position.
- 48 Press down the foot switch.
- 49 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 function should not operate with auxiliary power.

# Test the Lift/Drive Select Function (if equipped)

- 50 Press down the foot switch.
- 51 Move the drive control handle off center and activate a boom function toggle switch.
- Result: No boom functions should operate. The machine will move in the direction indicated on the control panel.

# **Workplace Inspection**



#### **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
- sloped surfaces
- · unstable or slippery surfaces
- 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

# **Operating Instructions**



#### **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, along with their tools and materials, 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.

#### Starting the Engine

- 1 At the ground controls, turn the key switch to the desired position.
- 2 Be sure both 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.

Gasoline/LPG models: In extreme cold conditions, 20°F / -6°C and below, the machine should be started on gasoline, then switched to LPG.

#### **Emergency Stop**

Push in the red Emergency Stop button to the off position at the ground or platform controls to stop all machine 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 if the primary power source (engine) fails.

- Turn the key switch to ground or platform control.
- 2 Pull out the red Emergency Stop button to the on position.
- 3 Press down the foot switch when operating the auxiliary controls from the platform.
- 4 Simultaneously hold the auxiliary power switch on and activate the desired function.

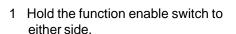


The drive function will not operate with auxiliary power.

#### **Operation from Ground**

- 1 Turn the key switch to ground control.
- 2 Pull out the red Emergency Stop button to the on position.
- 3 Gasoline/LPG models: Choose fuel by moving the fuel select switch to the desired position.
- 4 Start the engine.

#### **To Position Platform**





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.

#### **Operation from Platform**

- 1 Turn the key switch to platform control.
- 2 Pull out both ground and platform red Emergency Stop buttons to the on position.
- 3 Gasoline/LPG models: Choose fuel by moving the fuel select switch to the desired position.
- 4 Start the engine. Do not press down the foot switch when starting the engine.

#### **To Position Platform**

- 1 Press down the foot switch.
- 2 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 past the drive speed limit switch.

#### **To Steer**

24

- 1 Press down the foot switch.
- 2 Turn the steer wheels with the thumb rocker switch located on top of the drive control handle.

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

#### To Drive

- 1 Press down the foot switch.
- 2 Increase speed: Slowly move the drive control handle off center.

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

Stop: Return the drive control handle to 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.

#### Driving on a slope

Determine the uphill, downhill and side slope ratings for the machine and determine the slope grade.



Maximum slope rating, counterweight uphill (gradeability): 2WD: 37% (20°)



Maximum slope rating, counterweight downhill:

2WD: 20% (11°) 4WD: 40% (22°)

4WD: 45% (24°)



Maximum side slope rating: 25% (14°)

Note: Slope rating is subject to ground conditions and adequate traction. The term gradeability applies to the counterweight uphill configuration only.

Be sure the boom is below horizontal and the platform is between the non-steer wheels.

Move the drive speed select switch to machine on incline symbol.

#### To determine the slope grade:

Measure the slope with a digital inclinometer OR use the following procedure.

You will need:

carpenter's level

straight piece of wood, at least 3 feet / 1 m long

tape measure

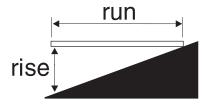
Lay the piece of wood on the slope.

At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

While holding the piece of wood level, measure the distance from the bottom of the piece of wood to the ground.

Divide the tape measure distance (rise) by the length of the piece of wood (run) and multiply by 100.

#### Example:



Piece of wood = 144 inches (3.6 m)

Run = 144 inches (3.6 m)

Rise = 12 inches (0.3 m)

12 in  $\div$  144 in = 0.083 x 100 = 8.3% grade

 $0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \text{ x} 100 = 8.3\% \text{ grade}$ 

If the slope exceeds the maximum uphill, downhill or side slope rating, then the machine must be winched or transported up or down the slope. See Transport and Lifting section.

#### **Drive Enable**

Light on indicates that the boom has moved just past either nonsteer 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 the drive chassis to identify the direction the machine will travel.

#### **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 the 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** (if equipped)

To start the generator, move the generator toggle switch to the on position.

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

To turn off the generator, move the generator toggle switch to the off position.

Note: Machine functions will not operate while the generator is running and the foot switch is not pressed down. When the foot switch is pressed down, the generator will turn off and the machine functions will operate.

# Platform Overload Indicator Light (if equipped)



Light flashing indicates the platform is overloaded and no functions will operate.

Remove weight from the platform until the light goes off.

# **Machine Not Level Indicator Light** (if equipped)



Light on indicates the machine is not level. The tilt alarm will be sounding when this light is on. Move the machine to a firm level surface.

#### **Fall Protection**

Personal fall protection equipment (PFPE) is required when operating this machine.

All PFPE must comply with applicable governmental regulations, and must be inspected and used in accordance with the PFPE manufacturer's instructions.

#### **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**

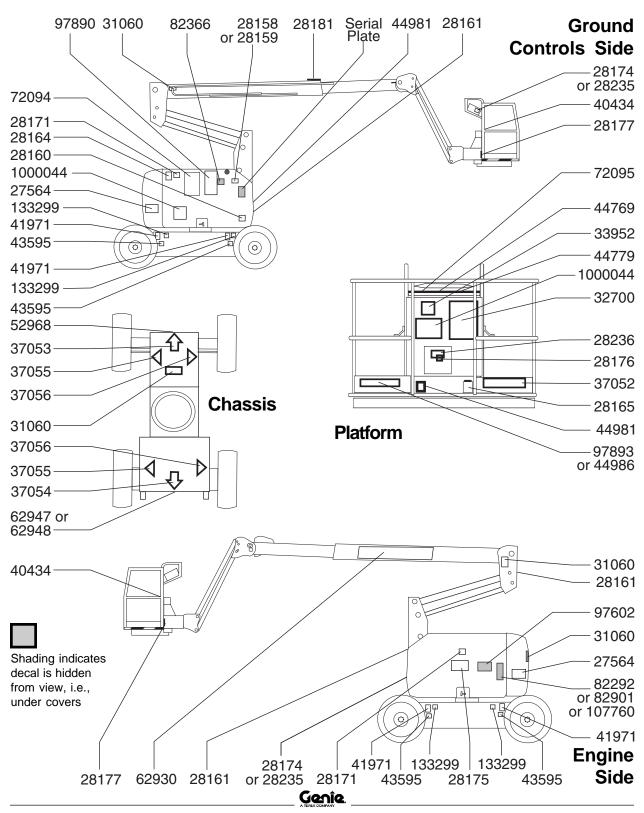
#### Inspection for Decals with Words

Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

| Part No. | Decal Description Quant                 | ity |
|----------|---|-----|
| 27564    | Danger - Electrocution Hazard           | 2   |
| 28158    | Label - Unleaded                        | 1   |
| 28159    | Label - Diesel                          | 1   |
| 28160    | Label - LPG                             | 1   |
| 28161    | Danger - Crushing Hazard                | 3   |
| 28164    | Notice - Hazardous Materials            | 1   |
| 28165    | Notice - Foot Switch                    | 1   |
| 28171    | Label - No Smoking                      | 2   |
| 28174    | Label - Power to Platform, 230V         | 2   |
| 28175    | Caution - Compartment Access            | 1   |
| 28176    | Notice - Missing Manuals                | 1   |
| 28177    | Warning - Platform Rotate               | 2   |
| 28181    | Warning - No Step or Ride               | 1   |
| 28235    | Label - Power to Platform, 115V         | 2   |
| 28236    | Warning - Failure To Read               | 1   |
| 31060    | Danger - Tip-over Hazard, Interlock     | 4   |
| 33952    | Danger - Tilt-Alarm                     | 1   |
| 37052    | Notice - Maximum Load, 500 lbs / 227 kg | 1   |
| 37053    | Arrow - Blue                            | 1   |
| 37054    | Arrow - Yellow                          | 1   |
| 37055    | Triangle - Blue                         | 2   |
| 37056    | Triangle - Yellow                       | 2   |

| Part No. | Decal Description Quant   | ity |
|----------|---|-----|
| 40434    | Label - Lanyard Anchorage   | 2   |
| 41971    | Notice - Tire Pressure  | 4   |
| 43595    | Danger - Tip Over Hazard,<br>Do Not Use Air Filled Tires (Australia only) | 4   |
| 44779    | Notice - Generator (option)   | 1   |
| 44981    | Label - Air Line to Platform  | 2   |
| 44986    | Notice - Max Manual Force, 90 lbs / 400 N                                 | 1   |
| 52968    | Cosmetic - Genie Boom   | 1   |
| 62930    | Cosmetic - Genie Z-34/22  | 1   |
| 62947    | Cosmetic - IC Power 4 x 2   | 1   |
| 62948    | Cosmetic - IC Power 4 x 4   | 1   |
| 72094    | Ground Control Panel  | 1   |
| 72095    | Platform Control Panel  | 1   |
| 82292    | Notice - Kubota DF-750 Engine Specs                                       | 1   |
| 82366    | Label - Chevron Rykon   | 1   |
| 82901    | Notice - Perkins Diesel Engine Specs                                      | 1   |
| 97602    | Warning - Explosion Hazard  | 1   |
| 97890    | Danger - Safety Rules   | 2   |
| 97893    | Notice - Max Side Force, 150 lbs / 667 N                                  | 1   |
| 107760   | Notice - Kubota Diesel Tier II<br>Engine Specs                            | 1   |
| 133299   | Label - Wheel Load  | 4   |
| 1000044  | Notice - Operating Instructions   | 2   |

#### **DECALS**



#### **DECALS**

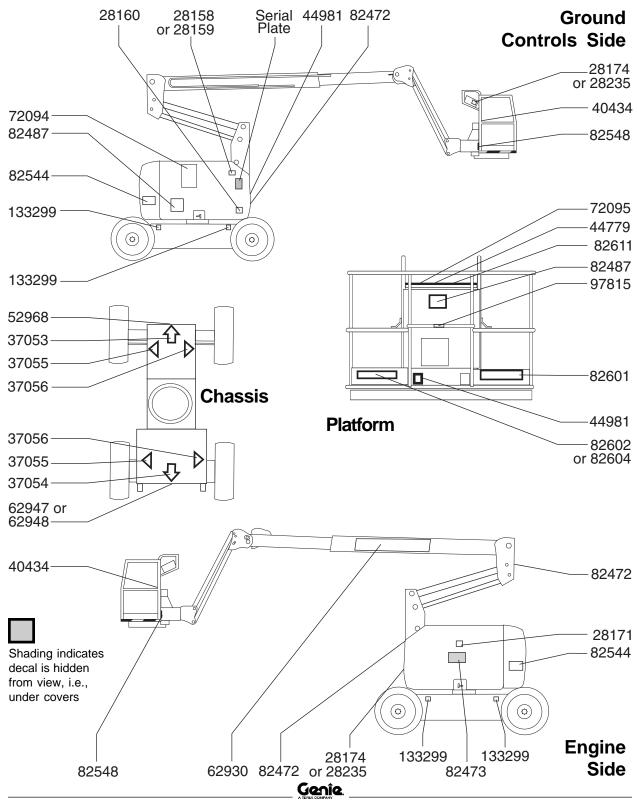
# **Inspection for Decals with Symbols**

Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

| Part No. | Decal Description               | Quantity |
|----------|---------------------------------|----------|
| 28158    | Label - Unleaded                | 1        |
| 28159    | Label - Diesel                  | 1        |
| 28160    | Label - LPG                     | 1        |
| 28171    | Label - No Smoking              | 2        |
| 28174    | Label - Power to Platform, 230V | 2        |
| 28235    | Label - Power to Platform, 115V | 2        |
| 37053    | Arrow - Blue                    | 1        |
| 37054    | Arrow - Yellow                  | 1        |
| 37055    | Triangle - Blue                 | 2        |
| 37056    | Triangle - Yellow               | 2        |
| 40434    | Label - Lanyard Anchorage       | 2        |
| 44779    | Label - Generator (option)      | 1        |
| 44981    | Label - Air Line to Platform    | 2        |
| 52968    | Cosmetic - Genie Boom           | 1        |
| 62930    | Cosmetic - Genie Z-34/22        | 1        |
| 62947    | Cosmetic - IC Power 4 x 2       | 1        |
| 62948    | Cosmetic - IC Power 4 x 4       | 1        |
|          |                                 |          |

| Part No. | Decal Description                | Quantity |
|----------|----------------------------------|----------|
| 72094    | Ground Control Panel             | 1        |
| 72095    | Platform Control Panel           | 1        |
| 82472    | Warning - Crushing Hazard        | 3        |
| 82473    | Caution - Compartment Access     | 1        |
| 82487    | Label - Operating Instructions   | 2        |
| 82544    | Danger - Electrocution Hazard    | 2        |
| 82548    | Warning - Platform Rotate        | 2        |
| 82601    | Danger - Maximum Load, 227 kg    | 1        |
| 82602    | Danger - Max Manual Force, 667 N | N 1      |
| 82604    | Danger - Max Manual Force, 400 N | 1        |
| 82611    | Label - Drive Enable Patch       | 1        |
| 97815    | Label - Lower Mid-rail           | 1        |
| 133299   | Label - Wheel Load               | 4        |

#### **DECALS**



# **Transport and Lifting 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, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial plate for the machine weight.
- ☑ The machine must be on a level surface or secured before releasing the brakes.
- ☑ Do not drive the machine on a slope that exceeds the slope or side slope rating. See Driving on a Slope in the Operating Instructions section.
- ☑ If the slope of the transport vehicle bed exceeds the uphill or downhill maximum slope rating, the machine must be loaded and unloaded using a winch as described.

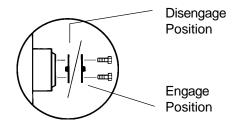
# Free-wheel Configuration for Winching

- 1 Chock the wheels to prevent the machine from rolling.
- 2 Release the non-steer wheel brakes by turning over the torque hub disconnect caps (see below).
- 3 Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.

After the machine is loaded:

- 1 Chock the wheels to prevent the machine from rolling.
- 2 Apply the non-steer wheel brakes by turning over the torque hub disconnect caps (see below).

Towing a Genie Z-34/22 is not recommended. If the machine must be towed, do not exceed 2 mph / 3.2 km/h.



#### TRANSPORT AND LIFTING INSTRUCTIONS

# **Securing to Truck or Trailer for Transit**

Always chock the machine wheels in preparation for transport.

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

Inspect the entire machine for loose or unsecured items.

#### Securing the Chassis

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

Use chains or straps of ample load capacity.

Use a minimum of 4 chains.

Adjust the rigging to prevent damage to the chains.

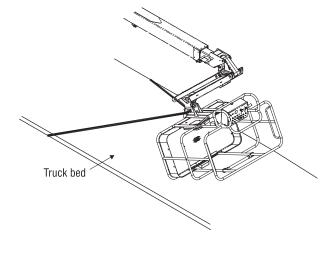
# Truck bed 1 2

#### Securing the Platform

Make sure the jib and platform are in the stowed position.

Place a block under the edge of the platform beneath the platform entry.

Secure the platform with a nylon strap placed over the platform mount near the platform rotator (see below). Do not use excessive downward force when securing the boom section.



#### TRANSPORT AND LIFTING INSTRUCTIONS



#### **Observe and Obey:**

- Only qualified riggers should rig and lift the machine.
- Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

#### **Lifting Instructions**

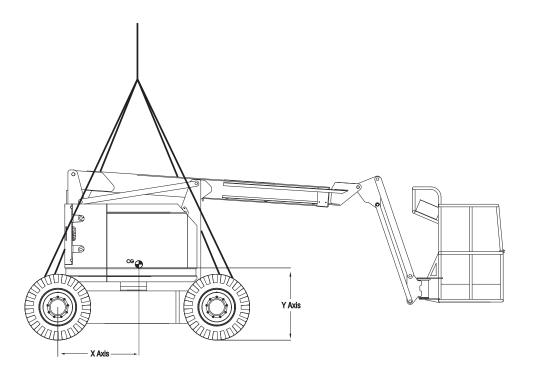
Fully lower and retract the boom. Fully lower the jib. Remove all loose items on the machine.

Determine the center of gravity of your machine using the table and the picture on this page.

Attach the rigging only to the designated lifting points on the machine. There are four lifting points on the chassis.

Adjust the rigging to prevent damage to the machine and to keep the machine level.

| X Axis | 35.9 in | 91.3 cm |
|--------|---------|---------|
| Y Axis | 33.3 in | 84.7 cm |



# **Specifications**

| Z-34/22 2WD Industrial                          |             |                                  |
|---|-------------|----------------------------------|
| Height, working maximum                         | 40 ft 6 in  | 12.5 m                           |
| Height, platform maximum                        | 34 ft 6 in  | 10.5 m                           |
| Height, stowed maximum                          | 6 ft 7 in   | 2 m                              |
| Horizontal reach maximum                        | 22 ft 3 in  | 6.8 m                            |
| Width   | 5 ft 8 in   | 1.7 m                            |
| Length, stowed                                  | 18 ft 6 in  | 5.6 m                            |
| Maximum load capacity                           | 500 lb      | 227 kg                           |
| Maximum wind speed                              | 28 mph      | 12.5 m/s                         |
| Wheelbase                                       | 6 ft 2 in   | 1.9 m                            |
| Turning radius (outside)                        | 13 ft 1 in  | 4 m                              |
| Turning radius (inside)                         | 5 ft 9 in   | 1.8 m                            |
| Ground clearance                                | 6 in        | 15 cm                            |
| Turntable rotation (degrees)                    |             | 355°                             |
| Turntable tailswing                             |             | 0                                |
| Platform leveling                               |             | self-leveling                    |
| Platform rotation (degrees)                     |             | 180°                             |
| Controls  | 12V E       | OC proportional                  |
| Platform dimensions, (length x width)           |             | 56 in x 30 in<br>1.4 m x 76 cm   |
| Power source                                    |             | G/LPG 24.5 hp<br>ta Diesel 26 hp |
| Fuel capacity                                   | 9.3 gallons | 35.2 liters                      |
| AC outlet in platform                           |             | standard                         |
| Hydraulic pressure, maximum (boom functions)    | 3200 psi    | 220.7 bar                        |
| System voltage                                  |             | 12V                              |
| Tires size (ANSI)<br>Industrial<br>Roughterrain |             | 9-14.5<br>10-16.5NHS             |
| Tires size (CE and Australia) Foam filled only  |             | 9-14.5                           |
|   |             |                                  |

| Weight<br>(Machine weights vary with op                                 | _                        | ee Serial Plate<br>ations)         |
|---|--------------------------|------------------------------------|
| Airborne noise emissions<br>Maximum sound level at norm<br>(A-weighted) | al operating w           | 80 dB<br>vorkstations              |
| Drive speeds, maximum,  |                          |                                    |
| Boom stowed   | 4.0 mph<br>40 ft/6.8 sec | 6.4 km/h<br>12.2 m/6.8 sec         |
| Boom raised or extended   | 0.7 mph<br>40 ft/40 sec  | 1.0 km/h<br>12.2 m/40 sec          |
| Maximum slope rating, stov  | ved position,            | 2WD                                |
| Counterweight uphill  | 37%                      | 20°                                |
| Counterweight downhill  | 20%                      | 11°                                |
| Side slope  | 25%                      | 14°                                |
| Note: Slope rating is subject adequate traction.                        | to ground co             | nditions and                       |
| Floor Loading Information   |                          |                                    |
| Tire load, maximum  | 5300 lbs                 | 2404 kg                            |
| Tire contact pressure (per tire   | ) 100 psi                | 7.03 kg/cm <sup>2</sup><br>689 kPa |
| Occupied floor pressure   | 221 psf                  | 10.58 kPa<br>1079 kg/m²            |
| Note: Floor loading informatio not incorporate different option         | • •                      |                                    |

used only with adequate safety factors.

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

#### **SPECIFICATIONS**

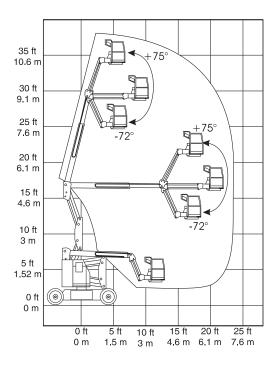
| Z-34/22 2WD and 4WD RT                       |  |               |
|--|--|---------------|
| Height, working maximum                      | 40 ft 10 in                                    | 12.6 m        |
| Height, platform maximum                     | 34 ft 10 in                                    | 10.6 m        |
| Height, stowed maximum                       | 6 ft 9 in                                      | 2 m           |
| Horizontal reach maximum                     | 22 ft 3 in                                     | 6.8 m         |
| Width  | 6 ft 1 in                                      | 1.8 m         |
| Length, stowed                               | 18 ft 7 in                                     | 5.7 m         |
| Maximum load capacity                        | 500 lb   | 227 kg        |
| Maximum wind speed                           | 28 mph   | 12.5 m/s      |
| Wheelbase                                    | 6 ft 2 in                                      | 1.9 m         |
| Turning radius (outside)                     | 13 ft 6 in                                     | 4.1 m         |
| Turning radius (inside)                      | 5 ft 11 in                                     | 1.8 m         |
| Ground clearance                             | 6.5 in   | 16.5 cm       |
| Turntable rotation (degrees)                 |  | 355°          |
| Turntable tailswing                          |  | 0             |
| Platform leveling                            |  | self-leveling |
| Platform rotation (degrees)                  |  | 180°          |
| Controls                                     | 12V DC proportional                            |               |
| Platform dimensions, (length x width)        | 56 in x 30 in<br>1.4 m x 76 cm                 |               |
| Power source                                 | Kubota G/LPG 24.5 hp<br>OR Kubota Diesel 26 hp |               |
| Fuel capacity                                | 9.3 gallons                                    | 35.2 liters   |
| AC outlet in platform                        |  | standard      |
| Hydraulic pressure, maximum (boom functions) | 3200 psi                                       | 220.7 bar     |
| System voltage                               |  | 12V           |
|  |  |               |

| Tires size (ANSI)<br>Industrial  | 9-14.5   |
|--|--|
| Rough terrain  | 10-16.5NHS   |
| Tires size (CE and Australia   | a)   |
| Foam filled only   | 9-14.5   |
| Weight (Machine weights vary with                                      | See Serial Plate option configurations)                        |
| Airborne noise emissions<br>Maximum sound level at nor<br>(A-weighted) | 80 dB<br>mal operating workstations                            |
| Drive speeds, maximum,   |  |
| Boom stowed  | 3.5 mph 5.6 km/h<br>40 ft/7.8 sec 12.2/7.8 sec                 |
| Boom<br>raised or extended<br>2WD & 4WD models 40                      | 0.7 mph 1.0 km/h<br>ft/40 sec 12.2 m/40 sec                    |
| Maximum slope rating, sto  | owed position, 4WD   |
| Counterweight uphill   | 45% 24°  |
| Counterweight downhill   | 40% 22°  |
| Side slope   | 25% 14°  |
| Note: Slope rating is subject adequate traction.                       | ct to ground conditions and                                    |
| Floor Loading Information  |  |
| Tire load, maximum   | 5300 lbs 2404 kg   |
| Tire contact pressure (per ti  | re) 45 psi 3.16 kg/cm²<br>310 kPa                              |
| Occupied floor pressure  | 221 psf 10.58 kPa<br>1079 kg/m²                                |
| Note: Floor loading informat not incorporate different opti            | ion is approximate and does<br>on configurations. It should be |

used only with adequate safety factors.

#### **SPECIFICATIONS**

#### Range of Motion



# 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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