Genie®
A TEREX COMPANY

Operator's Manual

GS-2668RT
GS-3268RT

CE

with
Maintenance
Information

Original Instructions
Fifth Edition
Second Printing
Part No. 133534

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, please call Genie Industries.

Contents

	Page
Introduction	1
Symbols and Hazard Pictorials Definitions	3
General Safety	5
Personal Safety	7
Work Area Safety	8
Legend	15
Controls	16
Inspections	21
Operating Instructions	30
Transport and Lifting Instructions	36
Maintenance	39
Specifications	42

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CE Complies with EC Directive 2006/42/EC See EC Declaration of Conformity

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Printed in U.S.A.

Introduction

Owners, Users and Operators:

Genie appreciates your choice of our machine for your application. Our number one priority is user safety, which is best achieved by our joint efforts. We feel that you make a major contribution to safety if you, as the equipment users and operators:

1 **Comply** with employer, job site and governmental rules.

2 **Read, understand and follow** the instructions in this and other manuals supplied with this machine.

3 **Use good safe work practices** in a common sense way.

4 **Only have trained/certified operators,** directed by informed and knowledgeable supervision, running the machine.

If there is anything in this manual that is not clear or which you believe should be added, please contact us.

Internet: www.genielift.com

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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.

Introduction

Hazard Classification

Genie uses symbols, color coding and signal words to identify the following:



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

⚠DANGER
Red

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING
Orange

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠CAUTION
Yellow

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE
Blue

Indicates a hazardous situation which, if not avoided, could result in property damage.

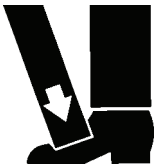
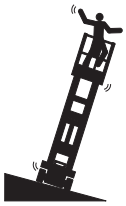
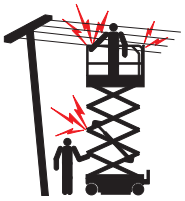
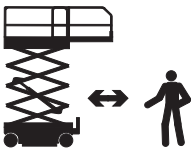
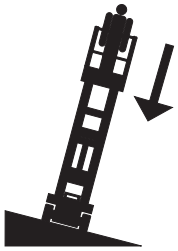
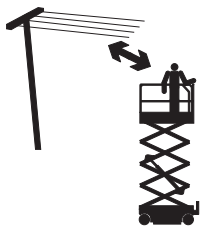
Intended Use

This machine is intended to be used only to lift personnel, along with their tools and materials to an aerial work site.

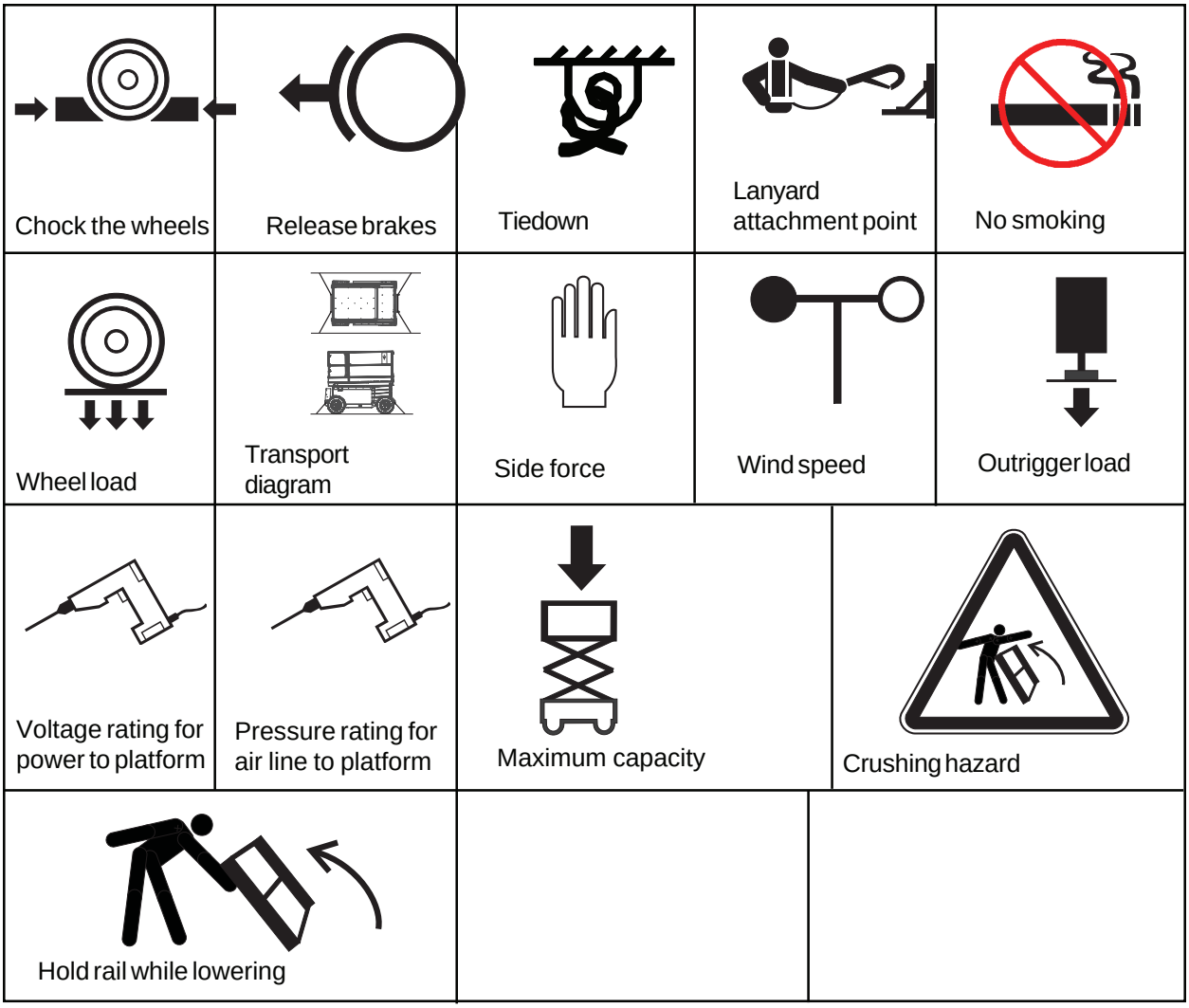
Safety Sign Maintenance

Replace any missing or damaged safety signs. Keep operator safety in mind at all times. Use mild soap and water to clean safety signs. Do not use solvent-based cleaners because they may damage the safety sign material.

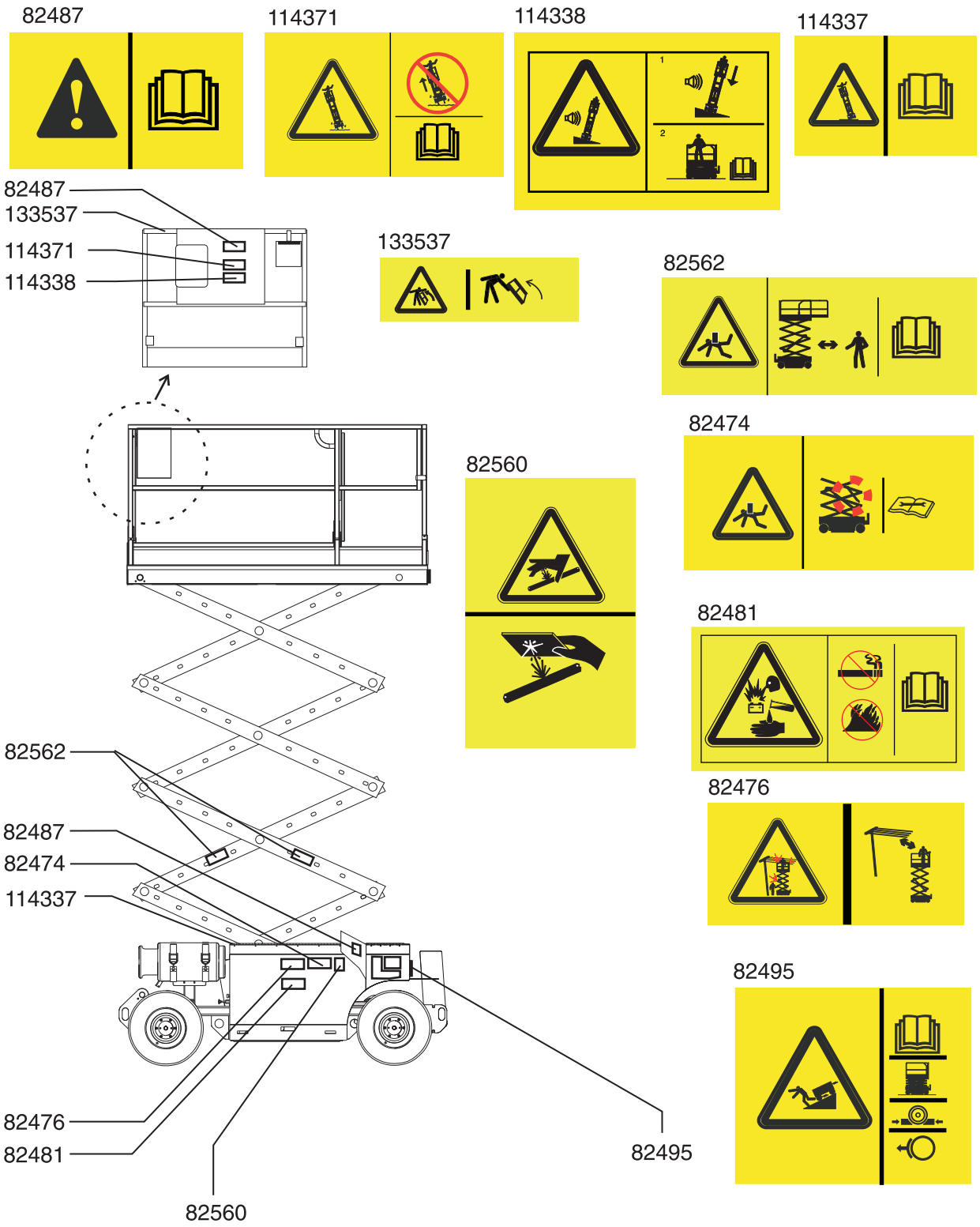
Symbol and Hazard Pictorials Definitions

 Read the operator's manual	 Read the service manual	 Crush hazard	 Crush hazard	 Collision hazard
 Tip-over hazard	 Tip-over hazard	 Tip-over hazard	 Tip-over hazard	 Electrocution hazard
 Electrocution hazard	 Explosion hazard	 Fire hazard	 Burn hazard	 Skin injection hazard
 Engage safety arm	 Keep away from moving parts	 Keep clear of outriggers and tires	 Move machine to level ground	 Close chassis tray
 Lower the platform	 Do not set up where it cannot be leveled with outriggers	 Maintain required clearance	 Only trained maintenance personnel should access compartments	 Use a piece of cardboard or paper to search for leaks

Symbol and Hazard Pictorials Definitions



General Safety

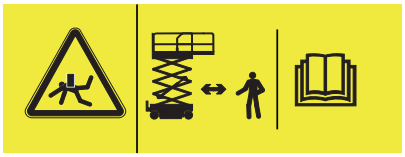


General Safety

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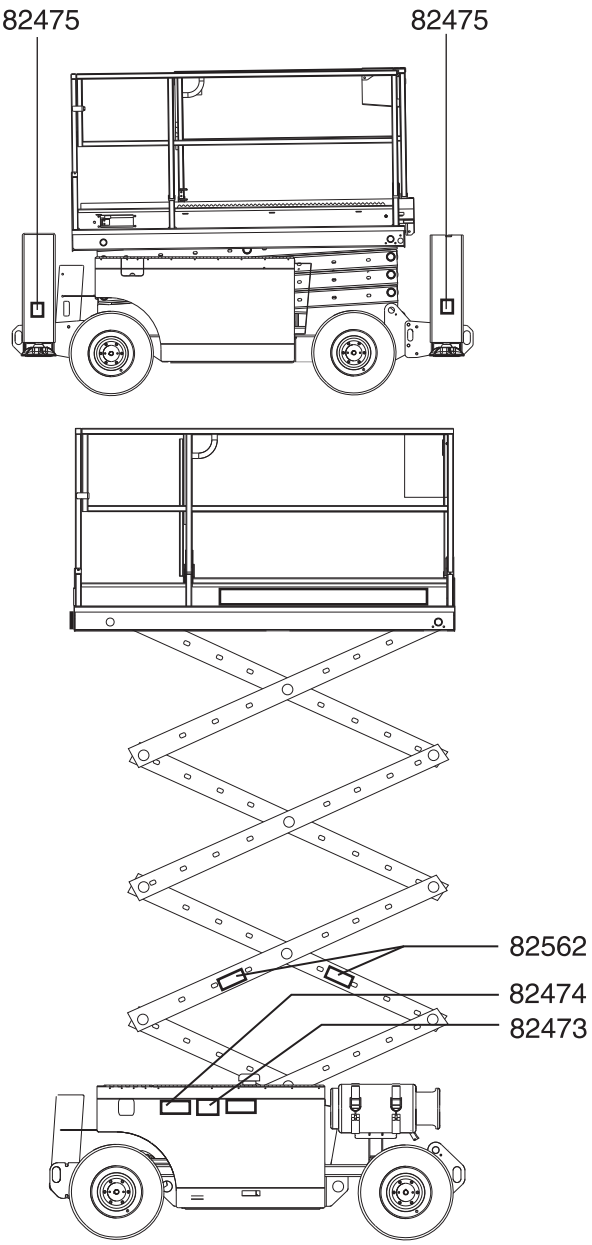


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Personal Fall Protection

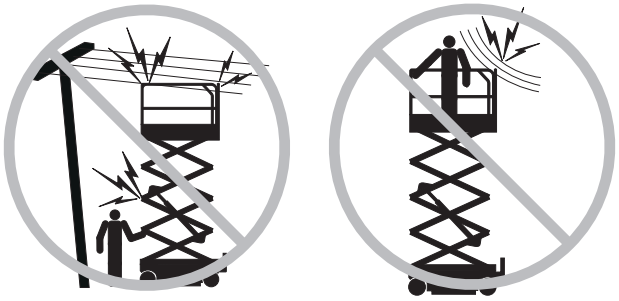
Personal fall protection equipment (PFPE) is not required when operating this machine. If PFPE is required by job site or employer rules, the following shall apply:

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

Work Area Safety

⚠ 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.

Line Voltage	Required Clearance
0 to 50KV	3.05 m
50KV to 200KV	4.60 m
200KV to 350KV	6.10 m
350KV to 500KV	7.62 m
500KV to 750KV	10.67 m
750KV to 1000KV	13.72 m

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.

Machine without capacity indicator:

Maximum capacity	
GS-2668 RT	567 kg
GS-3268 RT	454 kg

Machine with capacity indicator:

The maximum capacity varies with the height of the platform.

Maximum capacity - GS-2668 RT	
Maximum occupants	4
Height of Platform	Maximum Capacity
7.9 m	567 kg
6.8 m	835 kg
4.8 m	975 kg
2.7 m	835 kg
1.7 m	567 kg

Maximum capacity - GS-3268 RT	
Maximum occupants	
Indoor use	4
Outdoor use	2
Height of Platform	Maximum Capacity
9.8 m	454 kg
7.6 m	850 kg
5.8 m	919 kg
2.7 m	690 kg
1.8 m	454 kg

Work Area Safety

Do not raise the platform unless the machine is on a firm, level surface.





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

If the tilt alarm sounds:
Lower the platform. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.

Do not alter or disable the limit switches.

Do not drive over 0.8 km/h with the platform raised.

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 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 push off or pull toward any object outside of the platform.

Maximum manual force	
GS-2668 RT	
Indoor use - 4 person	400 N
Outdoor use - 4 person	400 N
GS-3268 RT	
Indoor use only - 4 person	400 N
Outdoor use - 2 person	400 N



Work Area Safety

Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

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

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.

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

Do not raise the platform when wind speeds may exceed 12.5 m/s. If wind speeds exceed 12.5 m/s when the platform is raised, lower the platform 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.



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

Do not place or attach fixed or 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.

Be sure all tires are in good condition, castle nuts are properly tightened and cotter pins are properly installed.

Do not use the machine as a crane.

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

Do not contact adjacent structures with the platform.

Work Area Safety

⚠ Operation on Slopes Hazards

Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. Slope rating applies to machines in the stowed position.

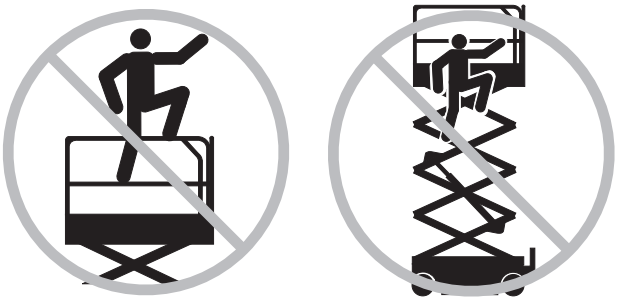
Maximum slope rating, stowed position	
GS-2668RT	40% (22°)
GS-3268RT	35% (19°)
Maximum side slope rating, stowed position	
GS-2668RT	40% (22°)
GS-3268RT	35% (19°)

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

⚠ Fall Hazards

The guard rail system provides fall protection. If occupant(s) of the platform are required to wear personal fall protection equipment (PFPE) due to job site or employer rules, PFPE equipment and its use shall be in accordance with the PFPE manufacturer's instructions and applicable governmental requirements.

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.

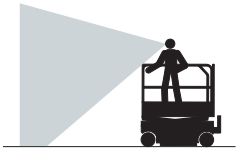
Keep the platform floor clear of debris.

Close the entry gate before operating.

Do not operate the machine unless the guard rails are properly installed and the entry is secured for operation.

Work Area Safety

Collision Hazards



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

Be aware of the extended platform position when moving the machine.

The machine must be on a level surface or secured before releasing the brakes.

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

Check the work area for overhead obstructions or other possible hazards.



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

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

Do not operate a machine in the path of any crane or moving overhead machinery 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.

Do not lower the platform 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.

⚠ Bodily Injury Hazards

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

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

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.

⚠ Component Damage Hazards

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.

Work Area Safety

⚠ 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 Genie 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.

⚠ Crushing Hazards

Keep hands and limbs out of scissors.

Use common sense and planning when operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine and fixed objects.

Maintain a firm grasp on the platform rail when pulling the rail pins. Do not allow the platform guard rails to fall.

⚠ Outrigger Safety

Tip-over Hazards

Do not lower the outriggers unless the machine is on a firm surface. Avoid drop-offs, holes, unstable or slippery surfaces and other possible hazardous conditions.

When the auto level function is not being used and the outriggers are being lowered individually, the steer-end outriggers must be lowered first.

Do not raise the platform unless the machine is level. Do not set the machine up on a surface where it cannot be leveled using only the outriggers.

Do not raise the platform unless all four outriggers are properly lowered, the footpads are in firm contact with the ground and the machine is level.

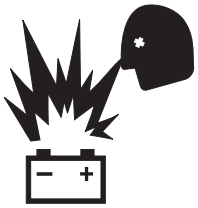
Do not adjust the outriggers while the platform is raised.

Do not drive while the outriggers are lowered.

Work Area Safety

⚠ Battery Safety

Burn Hazards



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

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



Do not expose the batteries or the charger to water or rain during charging.

Explosion Hazards



Keep sparks, flames and lighted tobacco away from batteries. Batteries emit an explosive gas.

The battery tray should remain open during the entire charging cycle.

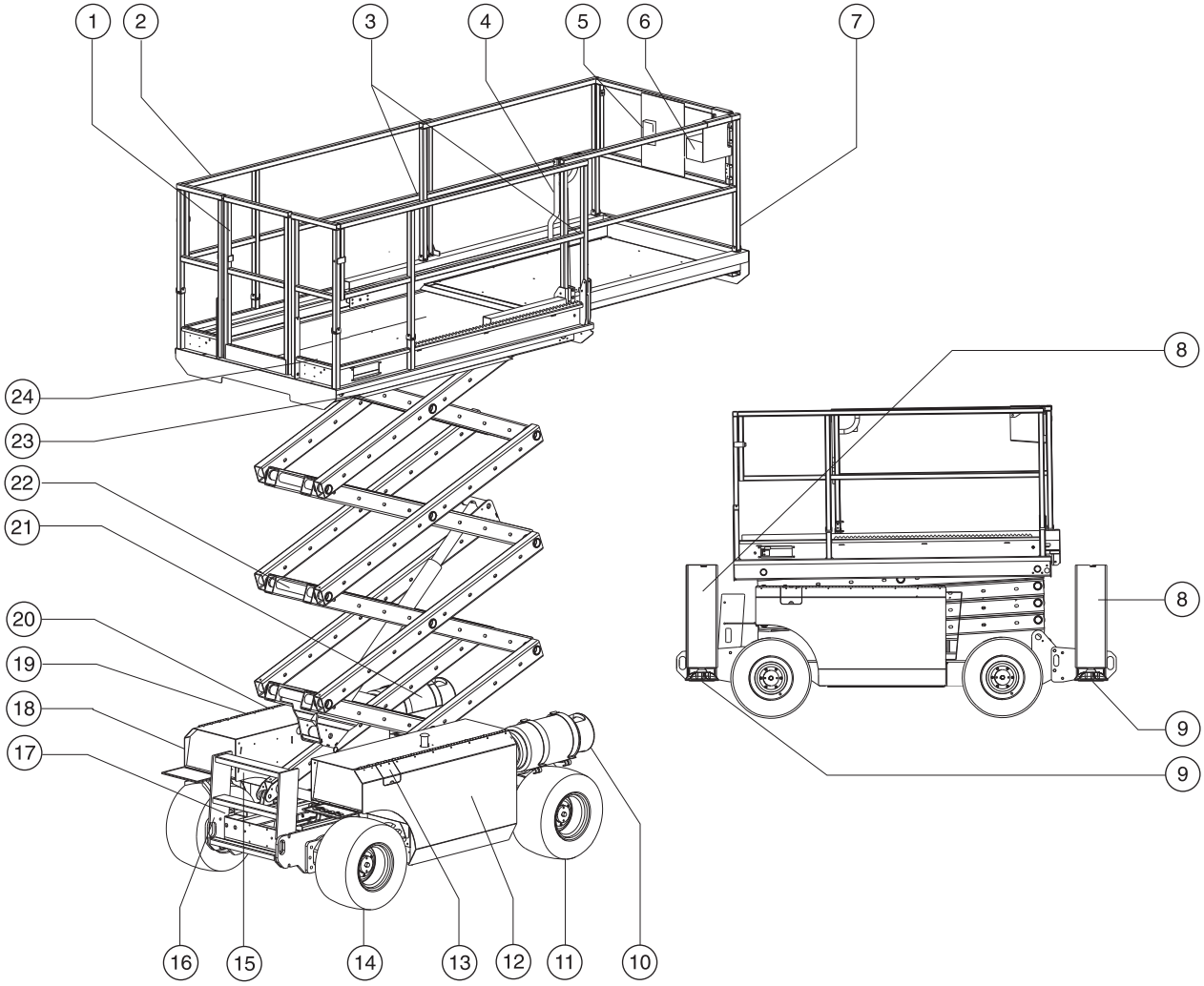


Do not contact the battery terminals or the cable clamps with tools that may cause sparks.

Component Damage Hazard

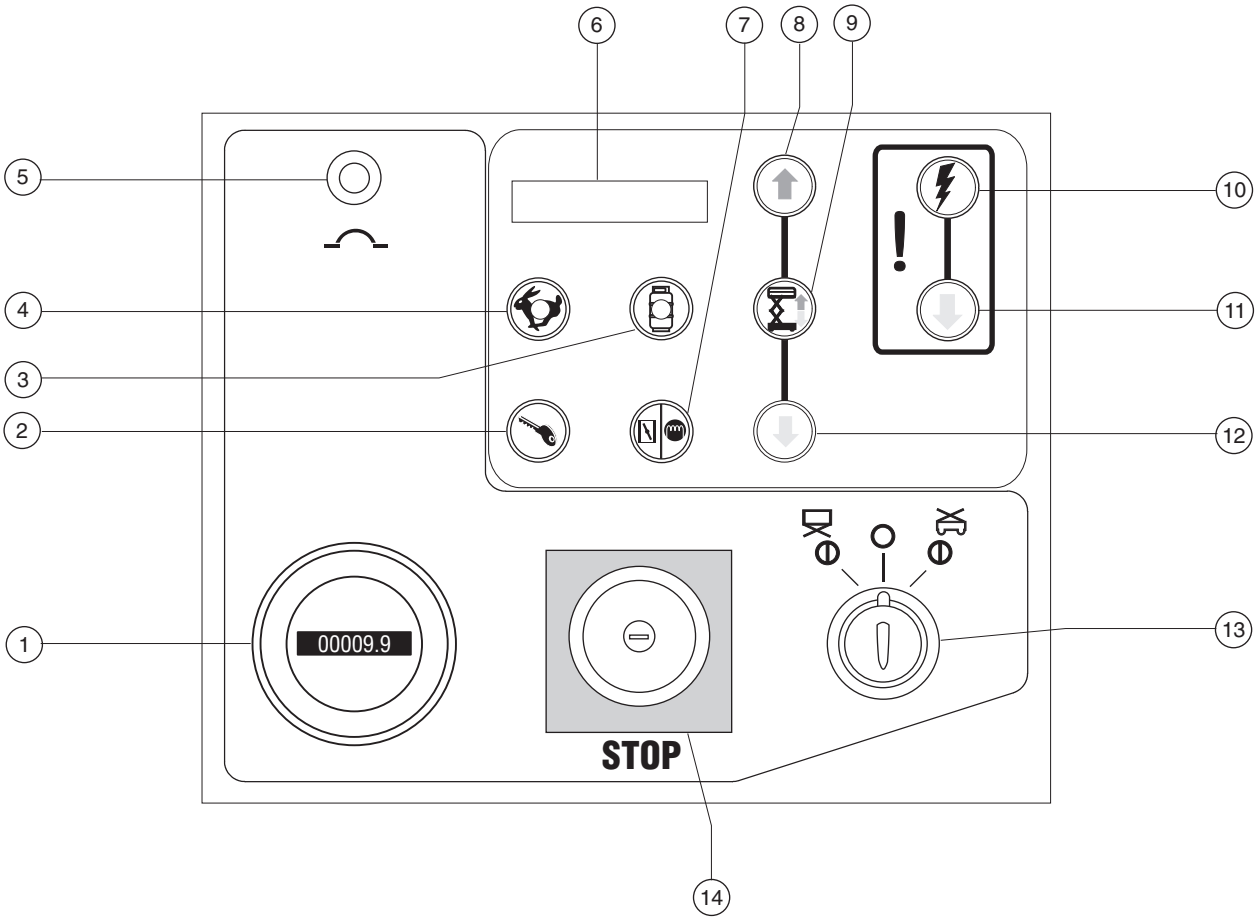
Do not use any battery charger greater than 24V to charge the batteries.

Legend



1 Platform entry gate
2 Platform guard rails
3 Lanyard anchorage point
4 Platform extension lock handle
5 Manual storage container
6 Platform controls
7 Platform extension
8 Outrigger housing (if equipped with outriggers)
9 Outrigger footpad (if equipped with outriggers)
10 LPG tank
11 Steer tire
12 Engine side cover
13 Fuel tank
14 Non-steer tire
15 Tilt alarm (under cover)
16 Entry ladder/transport tie-down
17 Brake release pump knob and brake release knob (hidden from view in this picture)
18 Ground controls side cover
19 Ground controls with LCD readout screen
20 Hydraulic oil level indicator (under cover)
21 LPG tank (optional)
22 Safety arm
23 Capacity indicator (if equipped)
24 GFCI outlet

Controls



Ground Control Panel

1 Hour meter
2 Engine start button
3 Gasoline/LPG models: LPG select button with indicator light
4 Engine idle select button with indicator light
5 20 amp circuit breaker for controls circuit
6 LCD readout screen
7 Gasoline/LPG models: Choke button
Diesel models: Glow plug button
8 Platform up button
9 Lift function enable button
10 Emergency lowering function enable button
11 Emergency lowering down button
12 Platform down button
13 Key switch for platform/off/ground control selection
14 Red Emergency Stop button

Controls

Ground Control Panel

1 Hour meter

Indicates the number of hours the machine has been put into use.

2 Engine start button

Press this button to start the engine.

3 Gasoline/LPG models: LPG select button with indicator light

Press this button to select fuel. Light on indicates that LPG is selected. Light off indicates gasoline is selected.

4 Engine idle select button with indicator light

Press this button to select the engine idle setting. Light on indicates high idle is selected. Light off indicates low idle is selected.

5 20 amp circuit breaker for controls circuit

6 LCD readout screen

7 Gasoline/LPG models: Choke button

Press this button to activate the choke.

Diesel models: Glow plug button

Press this button to activate the glow plugs.

8 Platform up button

Press this button and the platform will raise.

9 Lift function enable button

Press this button to activate the lift function.

10 Emergency lowering function enable button

Press this button to activate the emergency lowering function.

11 Emergency lowering down button

Press this button to activate the emergency lowering down function.

12 Platform down button

Press this button and the platform will lower.

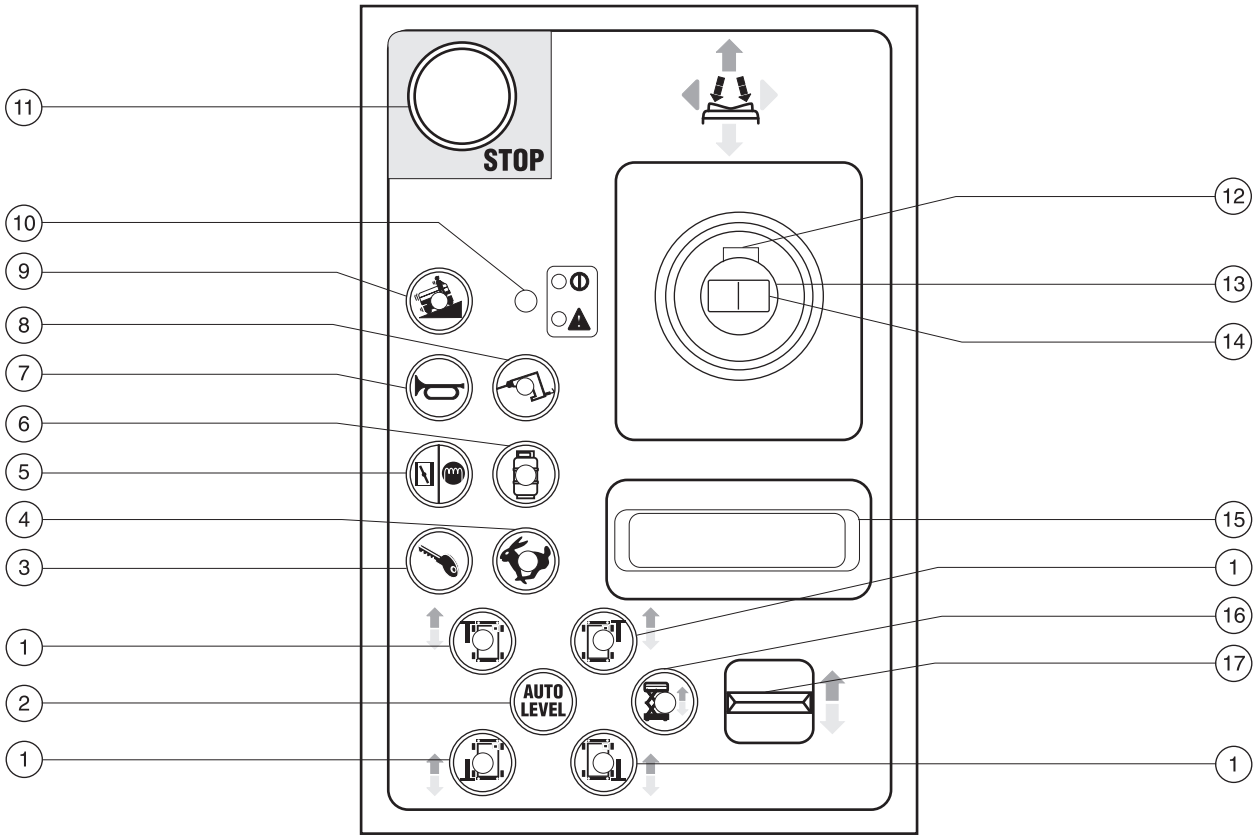
13 Key switch for platform/off/ground selection

Turn the keyswitch to the platform position and the platform controls will operate. Turn the keyswitch to the off position and the machine will be off. Turn the keyswitch to the ground position and the ground controls will operate.

14 Red Emergency Stop button

Push in the red Emergency Stop button to the off position to stop all functions. Pull out the red Emergency Stop button to the on position to operate the machine.

Controls



Platform Controls

1 Outrigger function enable button with indicator light

2 Outrigger auto level button

3 Engine start button

4 Engine idle select button with indicator light

5 Gasoline/LPG models: Choke button
Diesel models: Glow plug button

6 Gasoline/LPG models: LPG operation button with indicator light

7 Horn button

8 Generator select button with indicator light

9 Machine on incline button with indicator light: Low speed operation for inclines

10 Green power light/ Red error indicator light

11 Red Emergency Stop button

12 Function enable switch

13 Proportional control handle for drive function

14 Thumb rocker switch for steer function

15 Wrist rest

16 Lift function enable button with indicator light

17 Proportional rocker switch for outrigger up/down and platform up/down

Controls

Platform control panel

1 Outrigger function enable button with indicator light

Press this button to activate the individual outrigger up/down function.

2 Outrigger auto level button

Press this button to activate the auto level function.

3 Engine start button

Press this button to start the engine.

4 Engine idle select button with indicator light

Press this button to select the engine idle setting. Indicator light off: low idle Indicator light on: High idle

5 Gasoline/LPG models: Choke button

Press this button to aid in starting the engine in cold conditions.

Diesel models: Glow plug button

Press this button to aid in starting the engine in cold conditions.

6 Gasoline/LPG models: LPG operation button with indicator light

Press this button to select LPG.

7 Horn button

Press this button and the horn will sound. Release the button and the horn will stop

8 Generator select button with indicator light

Press this button to turn the generator on. Indicator light will be on. Press the button again to turn the generator off.

9 Machine on incline button with indicator light: Low speed operation for inclines

Press this button to select low speed operation for inclines.

10 Green power light/Red error indicator light

Green power light is on when Red Emergency Stop button is pulled out to the on position.

If red error indicator light is on, push in and pull out the Red Emergency Stop button to set the system. If the light stays red, tag and remove the machine from service.

11 Red Emergency Stop button

Push in the Red Emergency Stop button to the off position to stop all functions and turn the engine off. Pull out the Red Emergency Stop button to the on position to operate the machine.

12 Function enable switch

Press and hold the function enable switch to enable the drive function.

13 Proportional control handle for drive function

Move the control handle in the direction indicated by the blue arrow on the control panel and the machine will move in the direction that the blue arrow points. Move the control handle in the direction indicated by the yellow arrow on the control panel and the machine will move in the direction that the yellow arrow points.

Controls

14 Thumb rocker switch for steer function

Press the left side of the thumb rocker and the machine will steer to the left.

Press the right side of the thumb rocker and the machine will steer to the right.

15 Wrist rest

16 Lift function enable button with indicator light

Press this button to enable the lift function.

17 Proportional rocker switch for outrigger up/down and platform up/down

With the auto level button button indicator light on, move the rocker switch up and the outriggers will raise. Move the rocker switch down and the outriggers will lower.

With an individual outrigger enable button indicator light on, move the rocker switch up and the outrigger will raise. Move the rocker switch down and the outrigger will lower.

With the lift function enable button indicator light on, move the rocker switch up and the platform will raise. Move the rocker switch down and the platform will lower.

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.

Pre-Operation Inspection 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.

Inspections

Pre-operation Inspection

- ❏ 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 the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:

- ❏ Electrical components, wiring and electrical cables
- ❏ Hydraulic hoses, fittings, cylinders and manifolds
- ❏ Fuel and hydraulic tanks
- ❏ Drive motors
- ❏ Wear pads
- ❏ Tires and wheels
- ❏ Engine and related components
- ❏ Limit switches, alarms and horn
- ❏ Platform overload components
- ❏ Nuts, bolts and other fasteners
- ❏ Platform entry gate
- ❏ Beacon and alarms (if equipped)
- ❏ Brake release components
- ❏ Safety arm
- ❏ Platform extension
- ❏ Scissor pins and retaining fasteners
- ❏ Platform control joystick
- ❏ Generator (if equipped)
- ❏ Outrigger housings and footpads (if equipped)

Check entire machine for:

- ❏ Cracks in welds or structural components
- ❏ Dents or damage to machine
- ❏ Excessive rust, corrosion or oxidation
- ❏ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened
- ❏ Side rails are installed and snap pins and bolts are fastened

Inspections



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.

Function Tests 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.

Inspections

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

At the Ground Controls

2 Pull out the platform and ground red Emergency Stop buttons to the on position.

3 Turn the key switch to ground control.

⊙ Result: The LCD screen will come on and display SYSTEM READY.

Note: In cold climates, the LCD readout screen will need to warm up before the display appears.

4 Start the engine. See Operating Instructions section.

Test Emergency Stop

5 Push in the ground red Emergency Stop button to the off position.

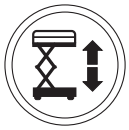
⊙ Result: The engine should turn off and no functions should operate.

6 Pull out the red Emergency Stop button to the on position and restart the engine.

Test the Up/Down Functions

The audible warnings on this machine and the standard horn all come from the same central alarm. The horn is a constant tone. The descent alarm sounds at 60 beeps per minute. The alarm that goes off when the machine is not level sounds at 180 beeps per minute.

7 Do not push the lift function enable button. Push and hold the platform up button.



⊙ Result: The platform should not raise.

8 Push and hold the lift function enable button. Push and hold the platform up button.

⊙ Result: The platform should raise.

9 Push and hold the lift function enable button. Push and hold the platform down button.

⊙ Result: The platform should lower. The descent alarm should sound while the platform is lowering.

At the Platform Controls

Test Emergency Stop

10 Push in the platform red Emergency Stop button to the off position.

⊙ Result: The engine should shut off and no functions should operate.

11 Pull the red Emergency Stop button out to the on position.

⊙ Result: The indicator light should be green.



Test the Horn

12 Push the horn button.

⊙ Result: The horn should sound.

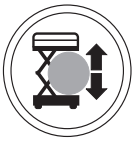
Inspections

Test Up/Down Functions and Function Enable

13 Start the engine.

14 Activate the up/down rocker switch in the direction indicated by the blue arrow.

⊙ Result: The platform should not raise.



15 Push and hold the lift function enable button.

16 Activate the up/down rocker switch in the direction indicated by the blue arrow.

⊙ Result: The platform should raise.

17 Push and hold the lift function enable button.

18 Activate the up/down rocker switch in the direction indicated by the yellow arrow.

⊙ Result: The platform should lower. The descent alarm should sound while the platform is lowering.

Test the Steering

Note: When performing the steer and drive function tests, stand in the platform facing the steer end of the machine.

19 Press and hold the function enable switch on the control handle.

20 Depress the thumb rocker switch on top of the 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 triangle points on the control panel.

21 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 triangle points on the control panel.

Test Drive and Braking

22 Press and hold the function enable switch on the control handle.

23 Slowly move the 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 control panel, then come to an abrupt stop.

24 Press and hold the function enable switch on the control handle.

25 Slowly move the 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 control panel, then come to an abrupt stop.

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

Inspections

Test Limited Drive Speed

26 Push and hold the lift function enable button. Raise the platform approximately 1.8 m from the ground.

27 Press and hold the function enable switch on the control handle.

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

⊙ Result: The maximum achievable drive speed with the platform raised should not exceed 22 cm/s.

If the drive speed with the platform raised exceeds 22 cm/s, immediately tag and remove the machine from service.

Test the Tilt Sensor Operation

Note: Perform this test from the ground with the platform controller. Do not stand in the platform.

29 Fully lower the platform.

30 Drive both wheels on one side onto a 10 cm block or onto a curb.

31 Raise the platform at least 1.8 m.

⊙ Result: The platform should stop and the tilt alarm will sound at 180 beeps per minute. The indicator light on the lift function enable button will be red.

32 Move the drive control handle in the direction indicated by the blue arrow, then move the drive control handle in the direction indicated by the yellow arrow.

⊙ Result: The drive function should not work in either direction.

33 Lower the platform and drive the machine off the block.

Test the Emergency Lowering

34 Push and hold the lift function enable button and raise the platform approximately 60 cm.

35 Push in the red Emergency Stop button to shut off the engine.

36 Pull out the red Emergency Stop button to the on position.

37 Push and hold the lift function enable button. Activate the up/down rocker switch in the direction indicated by the yellow arrow.

⊙ Result: The platform should lower.

Inspections



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

Inspections

Decals Inspection

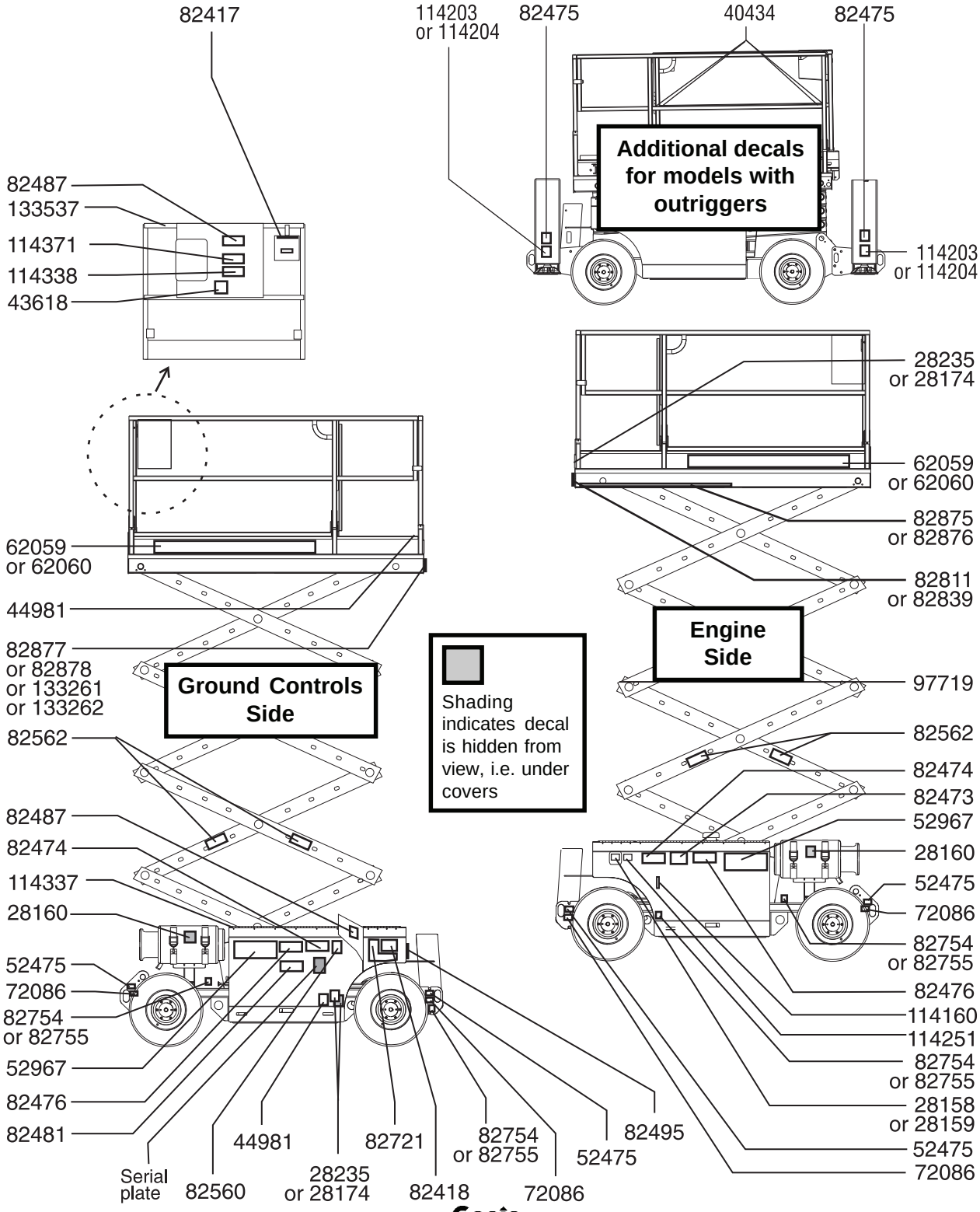
Use the pictures on the next page to verify that all decals are legible and in place.

Below is a numerical list with quantities and descriptions.

Part No.	Decal Description	Qty
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas	2
28174	Label - Power to Platform, 230V	2
28235	Label - Power to Platform, 115V	2
40434	Label - Lanyard Anchorage Point	3
43618	Label - Directional Arrows	1
44981	Label - Air Line to Platform (option)	2
52475	Label - Transport Tie-down	4
52967	Cosmetic - 4x4	2
62059	Cosmetic - GS-2668RT	2
62060	Cosmetic - GS-3268RT	2
72086	Lifting Eye	4
82417	Platform Control Panel	1
82418	Ground Control Panel	1
82473	Label - Compartment Access	2
82474	Label - Safety Chock	2
82475	Label - Crushing Hazard, Outriggers	4
82476	Label - Electrocution Hazard	2
82481	Label - Battery Safety	1
82487	Label - Read the Manual	2
82495	Label - Brake Release Safety	1
82560	Label - Skin Injection Hazard	1
82562	Label - Crushing Hazard	4

Part No.	Decal Description	Qty
82721	Ground Control Panel	1
82754	Label - Wheel Load, GS-2668RT	4
82755	Label - Wheel Load, GS-3268RT	4
82811	Label - Manual F orce, GS=2668RT	1
82839	Label - Manual F orce, GS=2668RT	1
82875	Label - Capacity Indicator, GS-2668RT	1
82876	Label - Capacity Indicator, GS-3268RT	1
82877	Label - Maximum Capacity, GS-2668RT	1
82878	Label - Maximum Capacity, GS-3268RT	1
97719	Label - Safety Arm	1
114160	Label - 102 dB	1
114203	Label - Outrigger Load, GS-2668	4
114204	Label - Outrigger Load, GS-3268	4
114251	Label - Explosion Hazard	1
114371	Label - Outrigger Safety	1
114337	Label - Tip-over Hazard	1
114338	Label - Tip-over Hazard	1
133261	Label - Maximum Capacity, GS-2668RT	1
133262	Label - Maximum Capacity, GS-3268RT	1
133537	Label - Crushing Hazard	1

Inspections



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.

Operating Instructions

Emergency Stop

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

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

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.

Gasoline/LPG models

3 Select LPG by pushing the LPG button.

4 Push the engine start button.

Note: In cold conditions, 20°F / -6°C and below, the machine should be started on gasoline and warmed for 2 minutes, then switched to LPG. Warm engines can be started on LPG.

Diesel models

3 Push the engine start button.

Note: In cold conditions, 50°F / 10°C and below, push and hold the glow plug button for 5 to 10 seconds before starting the engine. Limit continuous use of the glow plug button to 20 seconds.

All models

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.

In cold conditions, 20°F / -6°C and below, warm the engine for 5 minutes before operating to prevent hydraulic system damage.

In extreme cold conditions, 0°F / -18°C and below, machines should be equipped with optional cold start kits. Attempting to start the engine when temperatures are below 0°F / -18°C may require the use of a booster battery.

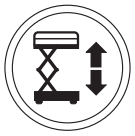
Operation From Ground

1 Turn the key switch to ground control.

2 Pull out both ground and platform red Emergency Stop buttons to the on position.

3 Start the engine.

To Position Platform



1 Push and hold the lift function enable button.

2 Activate the up function or the down function.

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

Engine Idle Select



Select the engine idle (rpm) by pressing the idle select button. There are three settings for engine idle.

- Indicator light off: low idle
- Indicator light on: high idle

Operating Instructions

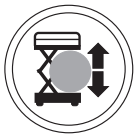
Operation From Platform

1 Turn the key switch to platform control.

2 Pull out the ground and platform red Emergency Stop button to the on position.

3 Start the engine.

To Position Platform



1 Push and hold the lift function enable button.

2 Activate the up/down rocker switch in the desired direction.

To Steer

1 Press and hold the function enable switch on the control handle.

2 Turn the steer wheels with the thumb rocker switch located on the top of the control handle.

To Drive

1 Press and hold the function enable switch on the control handle.

2 Increase speed: Slowly move the control handle off center.

Decrease speed: Slowly move the control handle toward center.

Stop: Return the control handle to center or release the function enable switch.

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

Machine travel speed is restricted when the platform is raised.

Drive Select Button



Machine on incline symbol:
Low range operation for inclines

Indicator Light On Red



If the indicator light is on red, push in and pull out the red Emergency Stop button to reset the system.

If the light stays red, tag and remove the machine from service.

Indicator Light Flashing Red



If the indicator light is flashing red, the platform is overloaded and no functions will operate. An alarm will sound at the platform controls.

Remove weight from the platform.

Push in and pull out the red Emergency Stop button to reset the system.

If the platform is still overloaded, the light will continue to flash.

Operating Instructions

Driving on a slope

Determine the slope and side slope ratings for the machine and determine the slope grade.



GS-2668 RT	
Maximum slope rating, stowed position	40% (22°)
Maximum side slope rating, stowed position	40% (22°)



GS-3268 RT	
Maximum slope rating, stowed position	35% (19°)
Maximum side slope rating, stowed position	35% (19°)



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

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

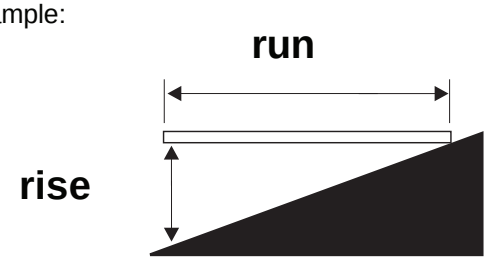
Lay the piece of wood on the slope.

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:



Run = 12 ft (144 in) / 3.6 m

Rise = 12 in/ 0.3 m

12 in ÷ 144 in = 0.083 x 100 = 8.3%
0.3 m ÷ 3.6 m = 0.083 x 100 = 8.3%

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

Operating Instructions

To Extend and Retract Platform

1 Lift the platform extension lock handle to the horizontal position.

2 Push the platform extension lock handle to extend the platform to the desired position.

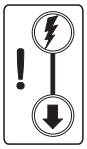
Do not stand on the platform extension while trying to extend it.

3 Lower the platform extension lock handle.

Emergency Lowering

At the Ground Controls

Push and hold the lift function enable button and activate the down function.



In the event of a power failure, use the emergency lowering function.

At the Platform Controls

Push and hold the lift function enable button and activate the up/down rocker switch in the down direction.

Operation From Ground with Controller

Maintain safe distances between the operator, the machine and fixed objects.

Be aware of the direction the machine will travel when using the controller.

Outrigger Operation (if equipped)

1 Position the machine below the desired work area.

Note: The engine must be running for the outriggers to operate.



2 Push and hold the auto level button.

3 Activate the up/down rocker switch in the down direction. The outriggers will extend and level the machine. A beep will sound when the machine is level.



The indicator light on the lift function enable button will turn red when one but not all outriggers are down. All drive and lift functions are disabled.

The light turns green on the lift function enable button and on the individual outrigger buttons when all the outriggers are in firm contact with the ground.

The drive function is disabled while the outriggers are down.

To control individual outriggers

1 Push and hold one or more outrigger buttons.

2 Activate the outrigger up/down rocker switch in the desired direction to level the machine.

Operating Instructions

After Each Use

1 Select a safe parking location—firm level surface, clear of obstructions and traffic.

2 Lower the platform.

3 Turn the key switch to the off position and remove the key to secure from unauthorized use.

4 Chock the wheels.

Transport and Lifting Instructions

Observe and Obey:

- ☑ Genie Industries provides this securement information as a recommendation. Drivers are solely responsible for making sure machines are properly secured and the correct trailer is selected pursuant to US Department of Transportation regulations, other localized regulations, and their company policy.
- ☑ Genie customers needing to containerize any lift or Genie product should source a qualified freight forwarder with expertise in preparing, loading and securing construction and lifting equipment for international shipment.
- ☑ Only qualified aerial lift operators should move the machine on or off the truck.
- ☑ 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. Genie lifts are very heavy relative to their size. See the serial plate for the machine weight. See the Decals section for the serial label location.
- ☑ 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. See the Specifications section for the slope ratings.

Brake Release Operation



1 Chock the wheels to prevent the machine from rolling.

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

3 Push in the brake release knob to open the brake valve.

4 Pump the brake release pump knob.

After the machine is loaded:

1 Chock the wheels to prevent the machine from rolling.

2 Press and hold the function enable switch on the control handle. Move the control handle off center to reset the brakes.

Towing the Genie GS-2668 RT or the GS-3268 RT is not recommended. If the machine must be towed, do not exceed 3.2 km/h.

Transport and Lifting Instructions

Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Retract and secure the extension deck.

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

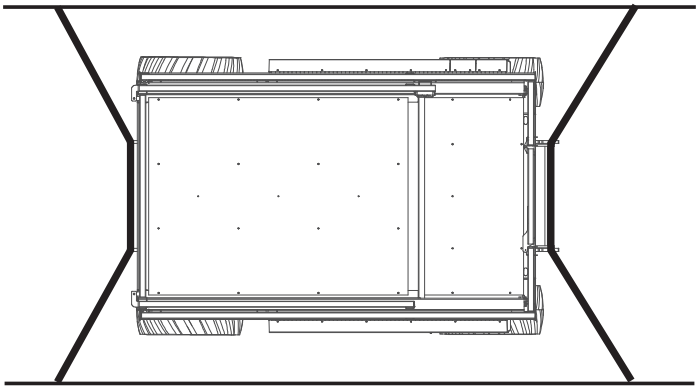
Use a minimum of two chains or straps.

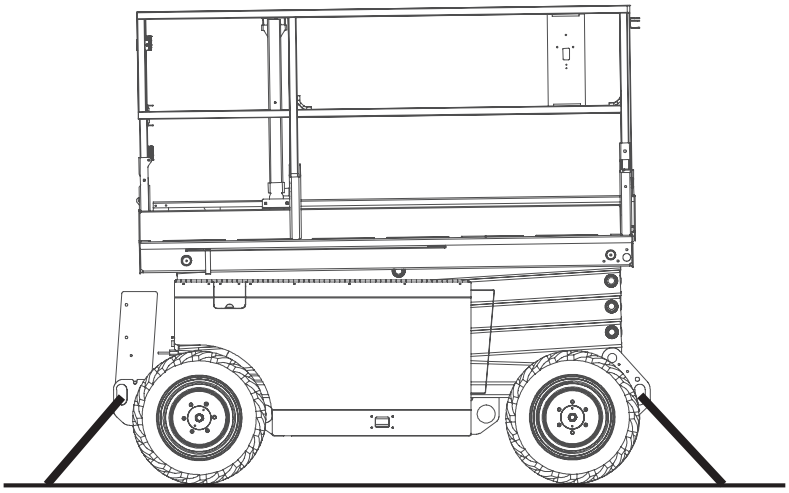
Use chains or straps of ample load capacity.

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

Inspect the entire machine for loose or unsecured items.

If the railings have been folded down, secure them with straps before transporting.





Transport and Lifting Instructions

Center of gravity	X Axis	Y Axis
GS-2668RT	33.5 in 85.2 cm	27.4 in 69.6 cm
GS-3268RT	32.8 in 83.4 cm	28.8 in 73.0 cm

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 label for the machine weight.

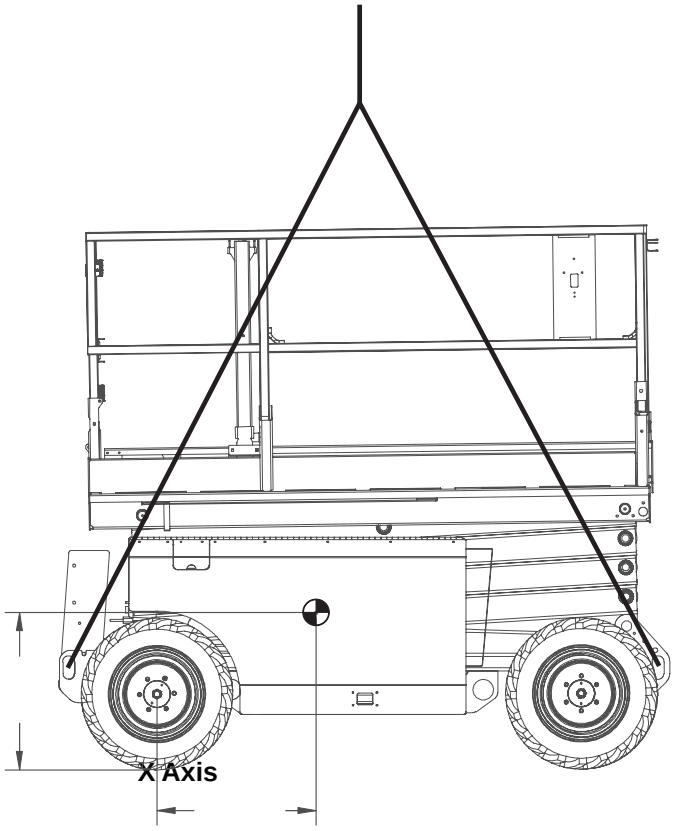
Lifting Instructions

Fully lower the platform. Be sure the extension deck, controls and covers are secure. 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.

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



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.



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.

Note: Check the oil level with the engine off.

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

Kubota DF 752-E2 Engine	
Oil Type	SAE 10W to 10W-30
Kubota D-1105 Engine	
Oil Type	SAE 10W to 10W-30
Perkins 403C-11	
Oil Type	SAE 15W-40

Maintenance

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.

Note: Perform this procedure with the platform in the stowed position and the engine off.

1 Visually inspect the sight gauge located on the side of the hydraulic oil tank.

⊙ Result: The hydraulic oil level should be within the top 5 cm of the sight gauge.

2 Add oil if necessary. Do not overfill.

Hydraulic oil specifications	
Hydraulic oil type	Chevron Rando HD equivalent

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.

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

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

⚠ 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 brackets are secure.

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.

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

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. Add fluid as needed.

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

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.

Specifications

GS-2668 RT	
Height, working maximum	9.8 m
Height, platform maximum	7.9 m
Height, stowed maximum, Rails up	2.3 m
Height, stowed maximum, Rails lowered	1.7 m
Height, stowed maximum, Rails off	1.2 m
Height, guard rails	1.02 m
Width	1.73 m
Length, platform retracted	2.67 m
Length, platform retracted, Models with outriggers	3.4 m
Length, platform extended	4.2 m
Maximum load capacity	567 kg
Maximum wind speed	12.5 m/s
Wheelbase	1.85 m
Turning radius (outside)	3.7 m
Turning radius (inside)	1.5 m
Ground clearance	21 cm
Weight	3538 kg
(Machine weights vary with option configurations. See serial label for specific machine weight.)	
Controls	Proportional
AC outlet in platform	Standard
Platform dimensions	
Platform length x width	2.5 x 1.5 m
Platform extension length	1.5 m
Vibration does not exceed 2.5 m/s^2	

Drive speeds	
Stowed, maximum	6.1 km/h
Platform raised, maximum	0.8 km/h 12.2 m/54.6 sec
Maximum hydraulic pressure (functions)	241.3 bar
Tires size	26 x 12 x 380

Maximum slope rating, stowed position	40%	(22°)
Maximum side slope rating, stowed position	40%	(22°)

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

Floor loading information	
Tire load, maximum	1261 kg
Outrigger load, maximum	1261 kg
Tire contact pressure	4.87 kg/cm2 477 kPa
Outrigger contact pressure	2.49 kg/cm2 244 kPa
Occupied floor pressure	984 kg/m2 9.64 kPa

Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.

Airborne noise emissions	
Sound pressure level at ground workstation	83 dBa
Sound pressure level at platform workstation	79 dBa
Guaranteed sound power level	102 dBa

Specifications

GS-3268 RT	
Height, working maximum	11.8 m
Height, platform maximum	9.8 m
Height, stowed maximum, Rails up	2.6 m
Height, stowed maximum, Rails lowered	1.8 m
Height, stowed maximum, Rails off	1.3 m
Height, guard rails	1.02 m
Width	1.73 m
Length, platform retracted	2.67 m
Length, platform retracted, Models with outriggers	3.4 m
Length, platform extended	4.2 m
Maximum load capacity	454 kg
Maximum wind speed	12.5 m/s
Wheelbase	1.85 m
Turning radius (outside)	3.7 m
Turning radius (inside)	1.5 m
Ground clearance	21 cm
Weight	4149 kg
(Machine weights vary with option configurations. See serial label for specific machine weight.)	
Controls	Proportional
AC outlet in platform	Standard
Platform dimensions	
Platform length x width	2.5 x 1.5 m
Platform extension length	1.5 m
Vibration does not exceed 2.5 m/s^2	

Drive speeds	
Stowed, maximum	6.1 km/h
Platform raised, maximum	0.8 km/h 12.2 m/54.6 sec
Maximum hydraulic pressure (functions)	241.3 bar
Tires size	26 x 12 x 380
Maximum slope rating, stowed position	35% (19°)
Maximum side slope rating, stowed position	35% (19°)
Note: Slope rating is subject to ground conditions and adequate traction.	

Floor loading information	
Tire load, maximum	1485 kg
Outrigger load, maximum	1485 kg
Tire contact pressure	5.73 kg/cm2 561 kPa
Outrigger contact pressure	2.93 kg/cm2 287 kPa
Occupied floor pressure	1082 kg/m2 10.62 kPa
Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.	

Airborne noise emissions	
Sound pressure level at ground workstation	83 dBa
Sound pressure level at platform workstation	79 dBa
Guaranteed sound power level	102 dBa

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