

# Operator's Manual

#### Serial Number Range

GS-1530/32 GS-1930/32 GS-2032 GS-2632 GS-3232 GS-2046 GS-2646 GS-3246 GS-4047

from GS3010A-110000 from GS3011C-10000

from GS3010A-110000 from GS3011C-10000

from GS3211A-110000 from GS3212C-10000

from GS3211A-110000 from GS3212C-10000

from GS3211A-110000 from GS3212C-10000

from GS4612A-110000 from GS4612C-10000

from GS4612A-110000 from GS4612C-10000

from GS4612A-110000 from GS4612C-10000

from GS4712C-101

AUS Australia

with Maintenance Information

Seventh Edition
Seventh Printing
Part No. T107028

### **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, contact us.

#### **Contact Us:**

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These machines comply with AS 1418.10

### Introduction

### **Owners, Users and Operators:**

Thank you for choosing 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 commonsense way.
- 4 Only have trained/certified operators, directed by informed and knowledgeable supervision, running the machine.



### **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**

Decals on this machine use 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.



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

**AWARNING** 

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

**A** CAUTION

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

NOTICE

Indicates a property damage message.

#### **Intended Use**

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

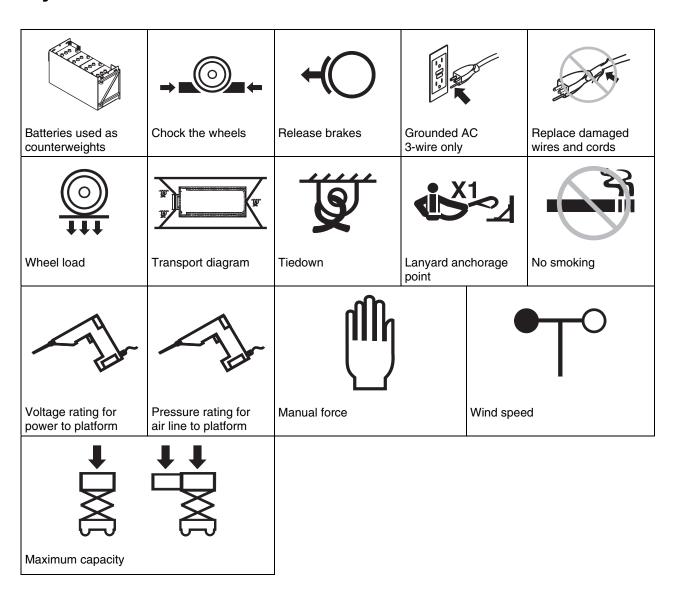
### **Safety Sign Maintenance**

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**



## **Symbol and Hazard Pictorials Definitions**



## **General Safety**

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#### Failure to read, understand and obey the operator's manual and the following safety rules will result in death or serious injury.

#### Improper Use Hazard

The operator is responsible for safe machine operation. This includes:

- Avoid hazardous situations.
- Always perform a pre-operation inspection.
- Always perform function tests prior to use. 4 Inspect work place.
- 5 Only use the machine as it was intended. Do not operate unless:

You read, understand and obev:

- -manufacturer's instructions and safety rules-safety and operator's manuals manuals and decals - employer's safety rules
- applicable governmental regulations

You are properly trained to safely operate this machine

#### **Electrocution Hazards**



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

Maintain required clearance.			
Line voltage	Required	clearance	
0 to 50KV	10 ft	3.05 m	
50KV to 200KV	15 ft	4.60 m	
200KV to 350KV	20 ft	6.10 m	
350KV to 500KV	25 ft	7.62 m	
500KV to 750KV	35 ft	10.67 m	
750KV/ to 1000KV/	45 ft	12 72 m	

#### **Explosion Hazards**

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

Do not refuel the machine with the engine

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

Do not exceed rated load capacity.

Do not raise platform unless machine is on a firm surface. Avoid drop-offs, holes and unstable or slippery surfaces.

Do not drive machine on a slope that exceeds the maximum slope or side slope rating for the



Models without outriggers: Do not raise platform unless machine is on a level surface.

Models with outriggers: Do not raise platform unless machine is level.

Do not raise platform when wind speeds may exceed 28 mph / 12.5 m/s. Do not operate machine in strong or gusty winds. Do not increase surface area of platform or load. Increasing area exposed to 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 push off or pull toward any object outside of the platform.

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

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 alter or disable machine components that in any way affect safety and stability

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

Do not use 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

#### Fall Hazards

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.

Attach platform entry chain and close entry gate before operating.

#### Crushing Hazards

Keep hands and limbs out of scissors.

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

#### **Collision Hazards**

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

Check work area for overhead obstructions or other possible hazards.

Be aware of crushing hazard when grasping platform guard rail.

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

#### Damaged Machine Hazards

Do not use a damaged or malfunctioning machine. Be sure all maintenance has been performed as specified in the appropriate operator's and service manuals

Be sure all decals are in place and legible.

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

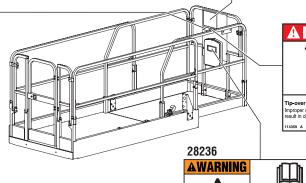












114359 (GS-3232 only) **A** DANGER

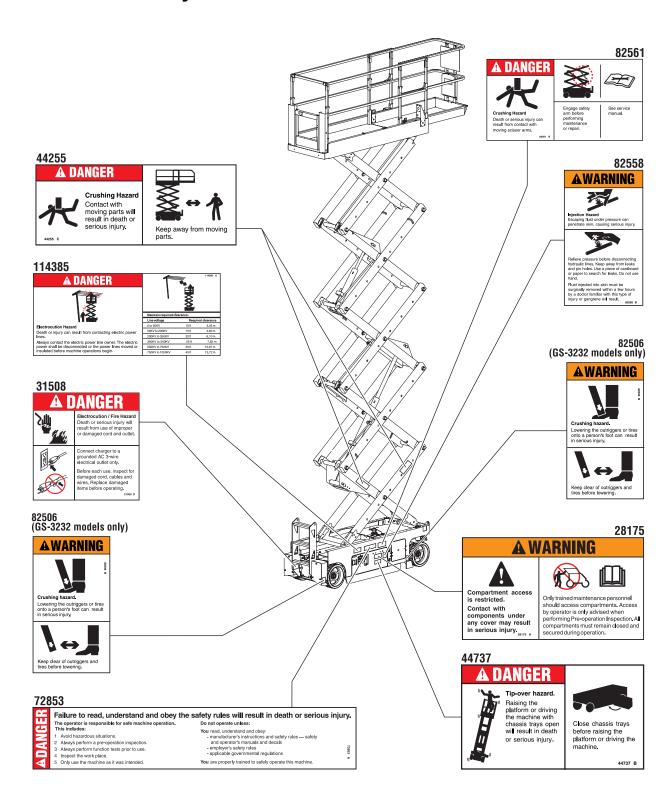
Tip-over Hazards

Read the manual for safe operation of outrigger function.

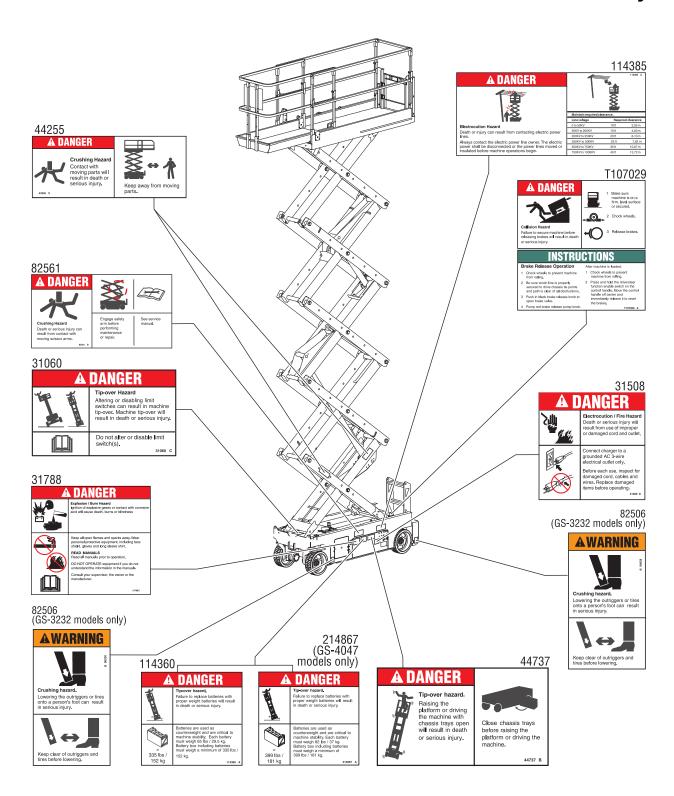
Manual, Responsibilities Manual a Safety Manual and all safety signs before using or maintaining machi If you do not understand the information in the manuals, consu your supervisor, the owner or the manufacturer.

#### Genie

## **General Safety**



## **General Safety**



## **Personal Safety**

### **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.

#### **▲** Electrocution Hazards

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



Obey all local and governmental regulations regarding required clearance from electrical power lines. At a minimum, the required clearance contained in the chart below must be followed.

Line Voltage	Required Clearance
0 to 50KV	3.05 m
50 to 200KV	4.60 m
200 to 350KV	6.10 m
350 to 500KV	7.62 m
500 to 750KV	10.67 m
750 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 or the maximum platform capacity of the platform extension.

Maximum	Maximum capacity			
	_	Platform extended		
Model	Platform retracted	Platform only	Extension only	Maximum occupants
GS-1530	272 kg	159 kg	113 kg	2
GS-1532	272 kg	159 kg	113 kg	2
GS-1930	227 kg	113 kg	113 kg	2
GS-1932	227 kg	113 kg	113 kg	2
GS-2032	363 kg	249 kg	113 kg	2
GS-2632	227 kg	113 kg	113 kg	2
GS-3232	227 kg	113 kg	113 kg	2
GS-2046	544 kg	431 kg	113 kg	2
GS-2646	454 kg	340 kg	113 kg	2
GS-3246	318 kg	204 kg	113 kg	2
GS-4047	350 kg	237 kg	113 kg	2

Platform retracted



Platform extended



Extension only

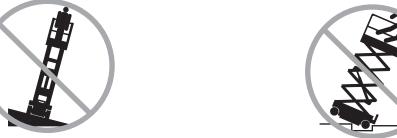
Platform only



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



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 the stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds on the chassis only 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 drive over 0.8 km/h with the platform raised.

**Outdoor Use:** 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.

**Indoor Use:** When raising the platform, follow ratings for allowable side force and number of occupants on the next page.

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

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.

Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

Do not operate the machine with the chassis trays open.



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

Maximum	allowable	manual	force - AU	S

Model	Manual Force	Maximum occupants
GS-1530	400 N	Indoor use only – 2
GS-1532	400 N	Indoor – 2
GO-1002	200 N	Outdoor – 1
GS-1930	400 N	Indoor use only – 2
GS-1932	400 N	Indoor – 2
	200 N	Outdoor – 1
GS-2032	400 N	Indoor – 2
	200 N	Outdoor – 1
GS-2632	400 N	Indoor use only – 2
GS-3232	400 N	Indoor use only – 2
GS-2046	400 N	Indoor / Outdoor – 2
GS-2646	400 N	Indoor / Outdoor – 2
GS-3246	400 N	Indoor – 2
	200 N	Outdoor – 1
GS-4047	400 N	Indoor use only – 3

Do not alter or disable the limit switches.

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 use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 29.5 kg. Battery tray including batteries must weigh a minimum of 152 kg.

For GS-4047 machines, each battery must weigh 37 kg. Battery tray including batteries must weigh a minimum of 181 kg.

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 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.

#### If equipped with outriggers

Do not set the machine up where it cannot be leveled using only the outriggers.

Do not adjust the outriggers while the platform is raised.

Do not drive while the outriggers are lowered.

### **▲** Crushing Hazard

Keep hands and limbs out of scissors.

Keep hands clear when folding rails.

Do not work under the platform or in the scissor links without the safety arm in place.

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.

### **▲** 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.

Model	Maximum slope rating, stowed position	Maximum side slope rating, stowed position
GS-1530	30% (17°)	30% (17°)
GS-1532	30% (17°)	30% (17°)
GS-1930	25% (14°)	25% (14°)
GS-1932	25% (14°)	25% (14°)
GS-2032	30% (17°)	30% (17°)
GS-2632	25% (14°)	25% (14°)
GS-3232	25% (14°)	25% (14°)
GS-2046	30% (17°)	30% (17°)
GS-2646	30% (17°)	30% (17°)
GS-3246	25% (14°)	25% (14°)
GS-4047	25% (14°)	25% (14°)

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 and its use shall be in accordance with the PFPE manufacturer's instructions and applicable governmental requirements. Use approved lanyard attachment point provided.



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.

Do not enter or exit the platform unless the machine is in the stowed position.

Attach the platform entry chain or 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.

#### **▲** Collision Hazards



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

Be aware of 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 the platform decal plate for drive and steer functions.



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.

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.

### A 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.

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.

### **▲** Explosion and Fire Hazards

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

### ▲ 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 machine.

### **▲** Component Damage Hazards

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

Do not use the machine as a ground for welding.

### **▲** 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 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.

#### **Electrocution/Burn Hazards**



Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cords, cables and wires. Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

#### **Tip-over Hazard**

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 29.5 kg. Battery tray including batteries must weigh a minimum of 152 kg. For GS-4047 machines, each battery must weigh 37 kg. Battery tray including batteries must weigh a minimum of 181 kg.

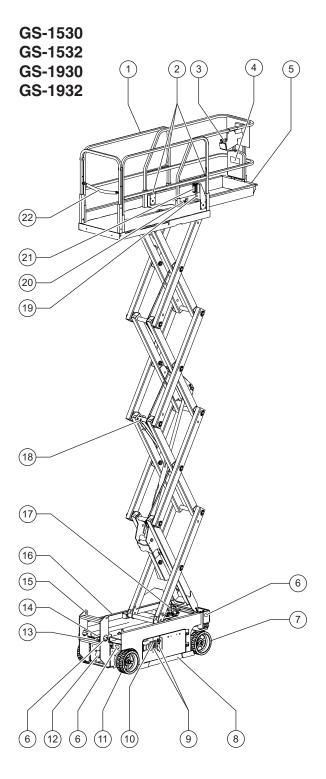
#### **Lifting Hazard**

Use the appropriate number of people and proper lifting techniques when lifting batteries.

#### **Lockout After Each Use**

- 1 Select a safe parking location—firm level surface, clear of obstruction and traffic.
- 2 Lower the platform.
- 3 Turn the key switch to the off position and remove the key to secure from unauthorized
- 4 Charge the batteries.

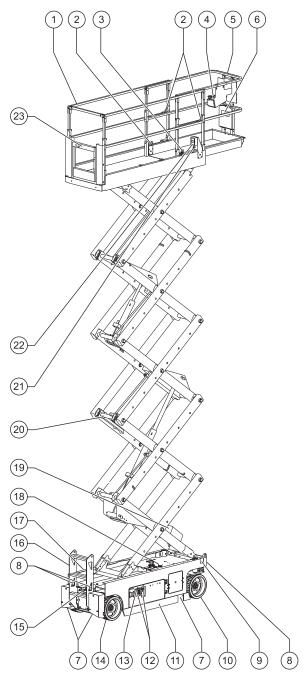
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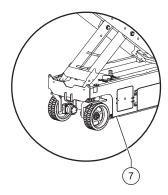
- 1 Platform guard rails
- 2 Lanyard anchorage point
- 3 Platform controls
- 4 Manual storage container
- 5 Platform extension
- 6 Transport tie-down
- 7 Steer tire
- 8 Pothole guard
- 9 Ground controls
- 10 LCD readout
- 11 Non-steer tire
- 12 Inverter (optional)
- 13 Brake release pump
- 14 Emergency lowering knob
- 15 Entry ladder / transport tie-down
- 16 Battery charger (on battery side of machine)
- 17 Tilt alarm
- 18 Safety arm
- 19 Air line to platform (optional)
- 20 Platform extension release pedal
- 21 GFCI outlet
- 22 Platform entry chain or gate

## Legend

GS-2032 GS-2632 GS-3232

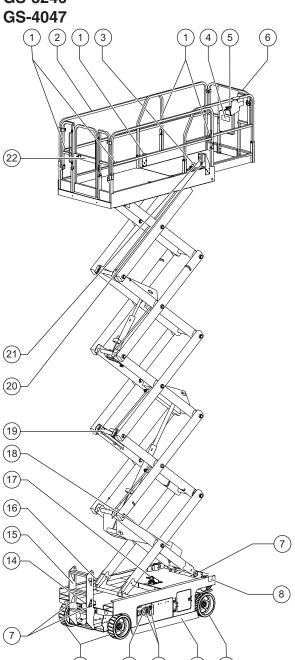


- 1 Platform guard rails
- 2 Lanyard anchorage point
- 3 Platform extension release pedal
- 4 Platform controls
- 5 Platform extension
- 6 Manual storage container
- 7 Outrigger
- 8 Transport tie-down
- 9 Emergency lowering knob
- 10 Steer tire
- 11 Pothole guard
- 12 Ground controls
- 13 LCD readout
- 14 Non-steer tire
- 15 Brake release pump
- 16 Entry ladder / transport tie-down
- 17 Battery charger (on battery side of machine)
- 18 Tilt alarm
- 19 Inverter (optional)
- 20 Safety arm
- 21 Air line to platform (optional)
- 22 GFCI outlet
- 23 Platform entry chain or gate

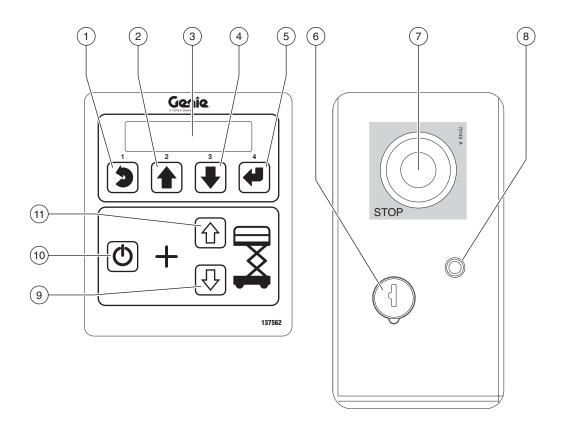


## Legend

GS-2046 GS-2646 GS-3246

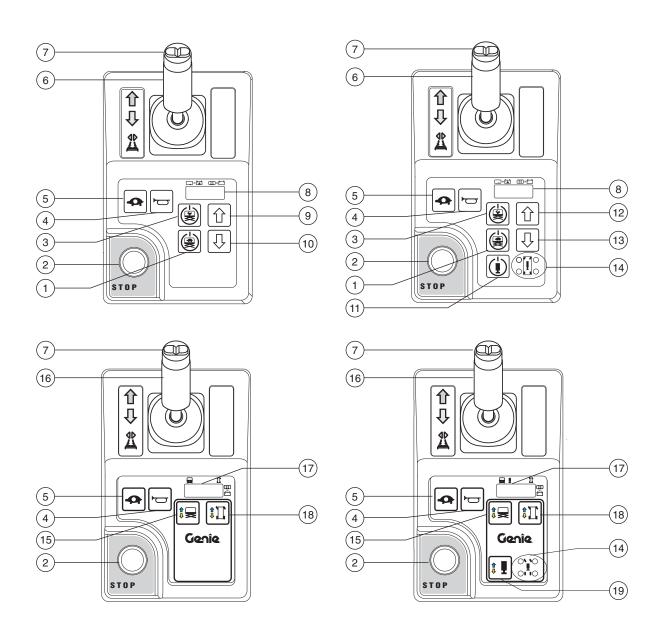


- 1 Lanyard anchorage point
- 2 Platform guard rails
- 3 Platform extension release pedal
- 4 Manual storage container
- 5 Platform controls
- 6 Platform extension
- 7 Transport tie-down
- 8 Emergency lowering knob
- 9 Steer tire
- 10 Pothole guard
- 11 Ground controls
- 12 LCD readout
- 13 Non-steer tire
- 14 Brake release pump
- 15 Entry ladder / transport tie-down
- 16 Battery charger (on battery side of machine)
- 17 Tilt alarm
- 18 Inverter (option for all models except GS-4047)
- 19 Safety arm
- 20 Air line to platform (optional)
- 21 GFCI outlet
- 22 Platform entry chain or gate



#### **Ground Control Panel**

- 1 Menu escape button
- 2 Menu up button
- 3 LCD diagnostic readout
- 4 Menu down button
- 5 Menu enter button
- 6 Key switch for platform/off/ground selection Turn the key switch to the platform position and the platform controls will operate. Turn the key switch to the off position and the machine will be off. Turn the key switch to the ground position and the ground controls will operate.
- 7 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.
- 8 7A breaker for electrical circuits
- 9 Platform down button
- 10 Lift function enable button Press and hold this button to activate the lift function.
- 11 Platform up button



#### **Platform Control Panel**

1 Low speed lift enable button

Press and hold this button to activate the low speed platform function.



2 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.

3 High speed lift enable button

Press and hold this button to activate the high speed platform function.



4 Horn button

Press the horn button and the horn will sound. Release the horn button and the horn will not sound.



5 Drive speed select button

Press this button to activate the slow drive function. The indicator light will be on when slow drive is selected.



6 Proportional control handle and function enable switch for drive function

Drive function: Press and hold the function enable switch to enable the drive function on the platform control handle. 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.

7 Thumb rocker switch for steer function

Press the left side of the thumb rocker and the machine will turn in the direction the blue triangle points on the platform control panel.



Press the right side of the thumb rocker and the machine will turn in the direction the yellow triangle points on the platform control panel.



8 LED diagnostic readout / battery charge indicator

9 Platform up button

Press and hold the platform up button and the platform will raise.



10 Platform down button

Press and hold the platform down button and the platform will lower.



11 Outrigger enable button

Press and hold this button to activate the outrigger function.



12 Platform up OR outrigger retract button

Press and hold this button and the platform will raise OR the outriggers will retract.



13 Platform down OR outrigger extend button

Press and hold this button and the platform will lower OR the outriggers will extend.



14 Outrigger indicator lights

During outrigger extension, lights flash green. As each outrigger contacts the ground, lights turn solid green. Any time the outrigger extension procedure is interrupted, the lights will flash green indicating the outriggers are not contacting the ground or the outriggers are not fully deployed. During outrigger retraction lights turn solid green. As each outrigger fully retracts, lights turn off. Lights will turn solid red, indicating the corresponding outrigger is at end of stroke.



15 Lift function button

Push this button to activate the lift function.



16 Proportional control handle and function enable switch for drive, steer, lift and outrigger functions

Lift function: Press and hold the function enable switch to enable the lift function on the platform control handle. Move the control handle in the direction indicated by the blue arrow and the platform will raise. Move the control handle in the direction indicated by the yellow arrow and the platform will lower. The descent alarm should sound while the platform is lowering.

Drive function: Press and hold the function enable switch to enable the drive function on the platform control handle. 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.

Outrigger function: Press and hold the function enable switch to enable the outrigger function on the platform control handle. Move the control handle in the direction indicated by the blue arrow and the outriggers will retract. Move the control handle in the direction indicated by the yellow arrow and the outriggers will extend.

17 LED diagnostic readout, battery charge indicator and lift/drive mode indicator

18 Drive function button

Push this button to activate the drive function.



19 Outrigger function button

Press this button to activate the outrigger function.





### **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.

Pr	e-operation Inspection	<ul> <li>Outrigger housing and footpads (if equipped)</li> </ul>		
res	e sure that the operator's, safety and sponsibilities manuals are complete, legible and in the storage container located in the	■ Battery pack and connections		
		Ground strap		
	platform.	Platform entry chain or gate		
	Be sure that all decals are legible and in place. See Inspections section.	<ul> <li>Platform overload components</li> </ul>		
	Check for hydraulic oil leaks and proper oil	Pothole guards		
_	level. Add oil if needed. See Maintenance	Lanyard anchorage point		
	section.	Check entire machine for:		
lev	neck for battery fluid leaks and proper fluid vel. Add distilled water if needed. See	<ul> <li>Cracks in welds or structural components</li> </ul>		
	Maintenance section.	Dents or damage to machine		
Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:		Excessive rust, corrosion or oxidation		
		Be sure that all structural and other critical		
	☐ Electrical components, wiring and electrical cables	components are present and all associated fasteners and pins are in place and properly tightened.		
	<ul><li>Hydraulic hoses, fittings, cylinders and manifolds</li></ul>	Be sure side rails are installed and bolts are fastened.		
	☐ Drive motors	☐ Be sure that the chassis trays are closed and		
	☐ Wear pads	latched and the batteries are properly connected.		
	☐ Tires and wheels	Note: If the platform must be raised to inspect the		
	☐ Limit switches, alarms and horn	machine, make sure the safety arm is in place.		
	☐ Alarms and beacons (if equipped)	See Operating Instructions section.		
	☐ Nuts, bolts and other fasteners			
	☐ Brake release components			
	☐ Safety arm			
	☐ Platform extension			
	☐ Scissor pins and retaining fasteners			
	☐ Platform control joystick			



### **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 Test 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.

#### At the Ground Controls

- Select a test area that is firm, level and free of obstruction.
- 2 Be sure the batteries are connected.
- 3 Pull out the platform and ground red Emergency Stop button to the on position.
- 4 Turn the key switch to ground control.
- 5 Observe the diagnostic LED readout on the platform controls.
- Result: The LED should look like the picture below.



- 6 Observe the diagnostic LCD readout on the ground controls.
- Result: The LCD should display the model and hour meter.

READY . GS1930 00000.0 Hours

#### **Test Emergency Stop**

- 7 Push in the ground red Emergency Stop button to the off position.
- Result: No functions should operate.
- 8 Pull out the red Emergency Stop button to the on position.

#### **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 sounds at 180 beeps per minute when the pothole guards have not deployed and when the machine is not level. An optional automotive-style horn is also available.

- 9 Do not press the lift function enable button.
- 10 Press the platform up or platform down button.
- Result: The lift function should not operate.
- 11 Do not press the platform up or platform down buttons.
- 12 Press the lift function enable button.
- Result: The lift function should not operate.
- 13 Press and hold the lift function enable button, and press the platform up button.
- Result: The platform should raise.
- 14 Press and hold the lift function enable button, and press the platform down button.
- Result: The platform should lower. The descent alarm should sound while the platform is lowering.

#### **Test Emergency Lowering**

- 15 Activate the up function by pressing the lift enable button and platform up button, and raise the platform approximately 60 cm.
- 16 For GS-1530/32 and GS-1930/32 Models

Pull the emergency lowering knob located behind the entry ladder.

#### For GS-32, GS-46, and GS-47 Models

Pull the emergency lowering knob located on the ground controls side of the machine, at the steer end.

- Result: The platform should lower. The descent alarm will not sound.
- 17 Turn the key switch to platform control.

#### At the Platform Controls

#### **Test Emergency Stop**

- 18 Push in the platform red Emergency Stop button to the off position.
- Result: No functions should operate.

#### **Test the Horn**

- 19 Pull out the red Emergency Stop button to the on position.
- 20 Press the horn button.
- Result: The horn should sound.

# Use the button pattern on the platform controls to determine which of these next two function tests to perform.

Use this function test procedure if the decal on your platform controls has these buttons.







# Test the Function Enable Switch and the Up/Down Functions

- 21 Do not hold the function enable switch on the control handle.
- 22 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: No functions should operate.

- 23 Do not press the high speed or low speed lift enable buttons.
- 24 Press the platform up or platform down button.
- Result: The lift function should not operate.
- 25 Do not press the platform up or platform down buttons.
- 26 Press the high speed or low speed lift enable button.
- Result: The lift function should not operate.
- 27 Press and hold the high speed lift enable button.

Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable button at the same time.

- 28 Press the platform up button.
- Result: The platform should raise. The pothole guards should deploy.
- 29 Release the high speed lift enable button or the platform up button.
- Result: The platform should stop raising.
- 30 Press and hold the high speed lift enable button.
- 31 Press the platform down button.
- Result: The platform should lower. The descent alarm should sound while the platform is lowering.
- 32 Release the high speed lift enable button or the platform down button.
- Result: The platform should stop lowering.
- 33 Press and hold the low speed lift enable button.
- 34 Press the platform up button.
- Result: The platform should raise. The pothole guards should deploy.

- 35 Release the low speed lift enable button or the platform up button.
- Result: The platform should stop raising.
- 36 Press and hold the low speed lift enable button.
- 37 Press the platform down button.
- Result: The platform should lower at the same descent speed as high speed. The descent alarm should sound while the platform is lowering.
- 38 Release the low speed lift enable button or the platform down button.
- Result: The platform should stop lowering.

Use this function test procedure if the decal on your platform controls has these buttons.





## Test the Function Enable Switch and the Up/Down Functions

- 39 Do not hold the function enable switch on the control handle.
- 40 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: No functions should operate.
- 41 Press the lift function button.
- 42 Wait seven seconds for the lift function to time out.
- 43 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: The lift function should not operate.

- 44 Press the lift function button.
- 45 Press and hold the function enable switch on the control handle. Slowly move the control handle in the direction indicated by the blue arrow.

Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.

- Result: The platform should raise. The pothole guards should deploy.
- 46 Release the control handle.
- Result: The platform should stop raising.
- 47 Press and hold the function enable switch on the control handle. Slowly move the control handle 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 Drive Function Button**

Use this function test procedure if the decal on your platform controls has these buttons.



48 Press the drive function button (if equipped).



- 49 Wait seven seconds for the drive function to time out.
- 50 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: No functions should operate.

#### **Test the Steering**

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

51 Press the drive function button (if equipped).



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

Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.

- 53 Press the thumb rocker switch on top of the control handle in the direction indicated by the blue triangle on the control panel.
- Result: The steer wheels should turn in the direction indicated by the blue triangle.
- 54 Press the thumb rocker switch on top of the control handle in the direction indicated by the yellow triangle, on the control panel.
- Result: The steer wheels should turn in the direction indicated by the yellow triangle.

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

- 55 Press the drive function button (if equipped).
- 56 Press and hold the function enable switch on the control handle.

Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.

- 57 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 control 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 when the control handle is returned to the center position.
- 58 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 control 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 when the control handle is returned to the center position.

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

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

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

- 59 Fully lower the platform.
- 60 Place a 2x4 or similar piece of wood under both wheels on one side and drive the machine up onto them.
- 61 Raise the platform approximately 2.1 m from the ground.
- Result: The platform should stop and the tilt alarm will sound at 180 beeps per minute. The platform controls LED readout should display LL and the ground controls LCD should display LL: Machine Tilted.
- 62 Press the drive function button (if equipped).



- 63 Press and hold the function enable switch on the control handle.
- 64 Move the control handle in the direction indicated by the blue arrow, then move the control handle in the direction indicated by the vellow arrow.
- Result: The drive function should not work in either direction.
- 65 Lower the platform and remove both pieces of wood.

#### **Test Elevated Drive Speed**

- 66 Raise the platform approximately 1.2 m from the ground.
- 67 Press the drive function button (if equipped).



- 68 Press and hold the function enable switch on the control handle. Slowly move the control handle to 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 Pothole Guards**

Note: The pothole guards should automatically deploy when the platform is raised. The pothole guards activate limit switches that allow the machine to continue to function. If the pothole guards do not deploy, an alarm sounds and the machine will not drive or steer.

- 69 Raise the platform.
- Result: When the platform is raised 1.2 m from the ground, the pothole guards should deploy.
- 70 Press on the pothole guards on one side, and then the other.
- Result: The pothole guards should not move.
- 71 Lower the platform
- Result: The pothole guards should return to the stowed position.

- 72 Place a 2x4 or similar piece of wood under a pothole guard.
- 73 Raise the platform.
- Result: Before the platform is raised 2.1 m from the ground, an alarm should sound. The platform controls LED readout should display PHS and the ground controls LCD should display PHS: Pothole Guard Stuck.
- 74 Press the drive function button (if equipped).



- 75 Press and hold the function enable switch on the control handle.
- 76 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: The machine should not move forward or backward.
- 77 Press the drive function button (if equipped).



- 78 Press and hold the function enable switch on the control handle.
- 79 Press the thumb rocker switch on top of the control handle in the direction indicated by the blue and yellow triangles on the control panel.
- Result: The steer wheels should not turn left or right.
- 80 Lower the platform.
- 81 Remove the 2x4 or similar piece of wood.

### Use the button pattern on the platform controls to determine which of these next two function tests to perform.

Use this function test procedure if the decal on your platform controls has these buttons.









### **Test the Outrigger Function (GS-3232)**

- 82 Raise the platform.
- Result: The platform should raise to 6.7 m and stop.
- 83 Fully lower the platform.
- 84 Press and hold the outrigger enable button.
- 85 Press and hold the outrigger extend button.
- Result: The outriggers should extend. The individual outrigger indicator lights will flash green as the corresponding outrigger extends.
- 86 Continue pressing the outrigger enable, the foot switch (if equipped) and the outrigger extend buttons until all outrigger indicator lights turn solid green and a long beep is heard from the platform controls alarm. The machine is now level. At this point, the drive and steer functions are disabled.

Note: If the outrigger enable and extend buttons are released too soon during extension, the outrigger indicator lights will continue to flash green, indicating the outriggers are not contacting the ground.

Note: If the outrigger enable, foot switch (if equipped) and extend buttons are released too soon after the outriggers have contacted the ground, a long beep will not be heard at the platform controls and the outrigger indicator lights will be solid green. If a long beep is not heard and the outrigger indicator lights are solid green, this condition may indicate the outriggers are not fully deployed or the machine is not level.

- 87 Press and hold the function enable switch on the control handle.
- 88 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: The machine should not move in the directions indicated by the blue and yellow arrows.
- 89 Press and hold the function enable switch on the control handle.
- 90 Press the thumb rocker switch on top of the control handle in the direction indicated by the blue and yellow triangles on the control panel.
- Result: The steer wheels should not turn in the directions indicated by the blue and yellow triangles.
- 91 Raise the platform.
- Result: The platform should raise to 9.8 m and stop.
- 92 Fully lower the platform.
- 93 Press and hold the outrigger enable button.
- Result: The outriggers should not retract.

- 94 Press and hold the outrigger retract button.
- Result: The outriggers should not retract.
- 95 Press and hold the outrigger enable button.
- 96 Press and hold the outrigger retract button.
- Result: The outriggers should retract. The individual outrigger indicator lights will turn solid green as the corresponding outrigger retracts.
- 97 Continue pressing the outrigger enable, foot switch (if equipped) and the outrigger retract buttons until the outriggers are completely retracted. Release the outrigger enable and outrigger retract buttons when all outrigger indicator lights turn off. All functions are now restored.

Note: If the outrigger enable, foot switch (if equipped) and retract buttons are released too soon during retraction, the outrigger indicator lights will flash green, indicating the outriggers are not fully retracted.

Use this function test procedure if the decal on your platform controls has these buttons.





### **Test the Outrigger Function (GS-3232)**

- 98 Raise the platform.
- Result: The platform should raise to 6.7 m and stop.
- 99 Fully lower the platform.
- 100 Press the outrigger function button. On the LCD screen, a circle below the outrigger function symbol will turn on.



If the control handle is not moved within seven seconds of pushing the outrigger function button, the circle below the outrigger function symbol will turn off and outrigger function will not operate. Press the outrigger function button again.

- 101 Press and hold the function enable switch on the control handle.
- 102 Move the control handle in the direction indicated by the yellow arrow.
- Result: The outriggers should extend. The individual outrigger indicator lights will flash green as the corresponding outrigger extends.
- 103 Continue holding the control handle in the direction indicated by the yellow arrow until all outrigger indicator lights turn solid green and a long beep is heard from the platform controls alarm. The machine is now level. At this point, the drive and steer functions are disabled.

Note: If the control handle or foot switch (if equipped) are released too soon during extension, the outrigger indicator lights will continue to flash green, indicating the outriggers are not contacting the ground.

Note: If the control handle or foot switch (if equipped) are released too soon after the outriggers have contacted the ground, a long beep will not be heard at the platform controls and the outrigger indicator lights will be solid green. If a long beep is not heard and the outrigger indicator lights are solid green, this condition may indicate the outriggers are not fully deployed or the machine is not level.

- 104 Press the drive function button.
- 105 Press and hold the function enable switch on the control handle.
- 106 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: The machine should not move in the directions indicated by the blue and yellow arrows.
- 107 Press the drive function button.
- 108 Press and hold the function enable switch on the control handle.
- 109 Press the thumb rocker switch on top of the control handle in the direction indicated by the blue and yellow triangles on the control panel.
- Result: The steer wheels should not turn in the directions indicated by the blue and yellow triangles.

- 110 Raise the platform.
- Result: The platform should raise to 9.8 m and stop.
- 111 Fully lower the platform.
- 112 Press the outrigger function button.
- 113 Wait seven seconds for the outrigger function enable to time out.
- 114 Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
- Result: The outriggers should not retract.
- 115 Press the outrigger function button.
- 116 Move the control handle in the direction indicated by the blue arrow.
- Result: The outriggers should retract. The individual outrigger indicator lights will turn solid green as the corresponding outrigger retracts.
- 117 Continue holding the control handle and the foot switch (if equipped) until the outriggers are completely retracted. Release the control handle when all outrigger indicator lights turn off. All functions are now restored.

Note: If the control handle or foot switch (if equipped) are released too soon during retraction, the outrigger indicator lights will flash green, indicating the outriggers are not fully retracted.



#### **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.

# Workplace Inspection 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 Checklist**

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		

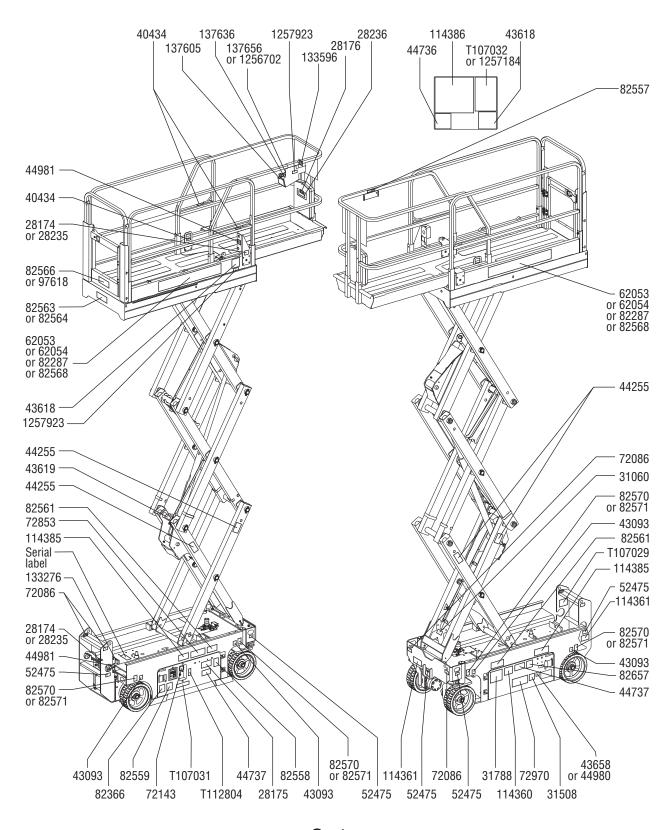
# Inspection for Decals with Words GS-1530, GS-1532, GS-1930 and GS-1932

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
28174	Label – Power to Platform, 230V	2
28175	Warning – Compartment Access	1
28176	Label – Missing Manuals	1
28235	Label – Power to Platform, 115V	2
28236	Warning – Improper Operation	1
31060	Danger - Tip-over Hazard, Limit Switch	1
31508	Danger – Electrocution Hazard	1
31788	Danger – Explosion/Burn Hazard	1
40434	Label – Lanyard Anchorage Point	3
43093	Label – Tire Specification	4
43618	Label – Directional Arrows	2
43619	Label – Safety Arm	1
43658	Label – Power to Charger, 230V	1
44255	Danger - Crushing Hazard	4
44736	Danger - Tip-over Hazard, Tilt Alarm	1
44737	Danger - Tip-over Hazard, Trays Open	2
44980	Label – Power to Charger, 115V	1
44981	Label – Air Line to Platform, 110 PSI	2
52475	Label – Transport Tie-down	5
62053	Cosmetic – Genie GS-1530	2
62054	Cosmetic – Genie GS-1930	2
72086	Label – Lifting Point	4
72143	Label – Emergency Stop	1
72853	Danger – Improper Use Hazard	1
72970	Instructions – Battery Charger Operation	1
82287	Cosmetic – Genie GS-1932	2
82366	Label – Chevron Rando	1
82557	Label – Platform Controls Location	1

Part No.	<b>Decal Description</b>	Qty
82558	Warning – Skin Injection Hazard	1
82559	Instructions - Annual Inspection	1
82561	Danger - Crushing Hazard	2
82563	Instructions – Max Cap, 500 lbs / 227 kg, GS-1930 and GS-1932	1
82564	Instructions – Max Cap, 600 lbs / 272 kg, GS-1530 and GS-1532	1
82566	Instructions – Maximum Manual Force, GS-1532 and GS-1932	1
82568	Cosmetic – Genie GS-1532	2
82570	Label – Wheel Load, GS-1530 and GS-1532	4
82571	Label – Wheel Load, GS-1930 and GS-1932	4
82657	Instructions – Battery Connection Diagram	1
97618	Instructions – Maximum Manual Force GS-1530 and GS1930	1
114360	Danger - Tip-over Hazard, Batteries	1
114361	Label – Transport Diagram	2
114385	Danger – Electrocution Hazard	2
114386	Danger – General Safety Rules	1
133276	Label – Emergency Lowering	
137605	Label – Emergency Stop, Platform Control	1
137636	Overlay - Platform Control Panel	1
137656	Label – Drive/Steer Direction, Platform Control	1
1256702	Overlay - Platform Control Panel	1
1257184	Instructions – Operation, Platform Control	1
1257923	Label – Smartlink	2
T107029	Danger/Instructions – Brake Release Safety and Operation	
T107031	Instructions – Operation, Ground 1 Control	
T107032	Instructions – Operation, Platform Control	
T112804	Label – Ground Control Panel	1



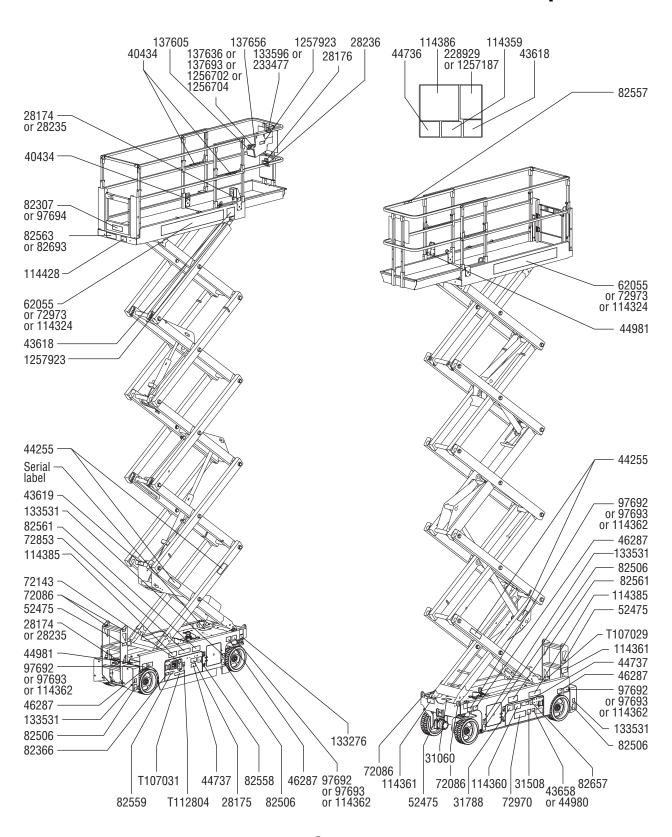
# Inspection for Decals with Words GS-2032, GS-2632 and GS-3232

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	
28174	Label - Power to Platform, 230V	2	
28175	Warning - Compartment Access	1	
28176	Label – Missing Manuals	1	
28235	Label – Power to Platform, 115V	2	
28236	Warning – Improper Operation	1	
31060	Danger – Tip-over Hazard, Limit Switch	1	
31508	Danger – Electrocution Hazard	1	
31788	Danger – Explosion/Burn Hazard	1	
40434	Label – Lanyard Anchorage Point	3	
43618	Label – Directional Arrows	2	
43619	Label – Safety Arm	1	
43658	Label – Power to Charger, 230V	1	
44255	Danger – Crushing Hazard	4	
44736	Danger - Tip-over Hazard, Tilt Alarm	1	
44737	Danger - Tip-over Hazard, Trays Open	2	
44980	Label – Power to Charger, 115V	1	
44981	Label – Air Line to Platform, 110 PSI	2	
46287	Label - Tire Specification	4	
52475	Label – Transport Tie-down	3	
62055	Cosmetic – Genie GS-2032	2	
72086	Label – Lifting Point	4	
72143	Label – Emergency Stop	1	
72853	Danger – Improper Use Hazard	1	
72970	Instructions – Battery Charger Operation	1	
72973	Cosmetic – Genie GS-2632	2	
82307	Instructions – Maximum Manual Force, GS-2632 and GS-3232	1	
82366	Label - Chevron Rando	1	
82506	Danger – Foot Crushing Hazard (GS-3232 only)	4	
82557	Label – Platform Controls Location	1	
82558	Warning – Skin Injection Hazard	1	
82559	Instructions – Annual Inspection	1	
82561	Danger – Crushing Hazard	2	
_			

Part No.E	Decal Description	Qty
82563	Instructions – Max Cap, 500 lbs / 227 kg, GS-2632 and GS-3232	1
82657	Instructions – Battery Connection Diagram	1
82693	Instructions – Max Cap, 800 lbs / 363 kg, GS-2032	1
97692	Label – Wheel Load, GS-2032	4
97693	Label - Wheel Load, GS-2632	4
97694	Instructions – Maximum Manual Force, GS-2032	1
114324	Cosmetic – Genie GS-3232	2
114359	Danger – Tip-over Hazard, Outriggers (GS-3232 only)	1
114360	Danger - Tip-over Hazard, Batteries	1
114361	Label – Transport Diagram	2
114362	Label - Wheel Load, GS-3232	4
114385	Danger – Electrocution Hazard	2
114386	Danger - General Safety Rules	1
114428	Instructions – Maximum Travel Height (GS-3232 only)	1
133276	Label – Emergency Lowering	1
133531	Label - Outrigger Load, GS-3232	4
133596	Label - Operational Indicator Codes	1
137605	Label – Emergency Stop, Platform Control	1
137636	Overlay – Platform Control Panel (All Models Except GS-3232)	1
137656	Label – Drive/Steer Direction, Platform Control	1
137693	Overlay – Platform Control Panel (GS-3232 only)	1
228929	Instructions - Operation, Platform Control	1
233477	Label – Operational Indicator Codes (GS-3232 only)	1
1256702	Overlay - Platform Control Panel	1
1256704	Overlay – Platform Control Panel with Outriggers	1
1257187	Instructions - Operation, Platform Control	1
1257923	Label – Smartlink	2
T107029	Danger/Instructions – Brake Release Safety and Operation	1
T107031	Instructions – Operation, Ground Control	1
T112804	Label – Ground Control Panel	1



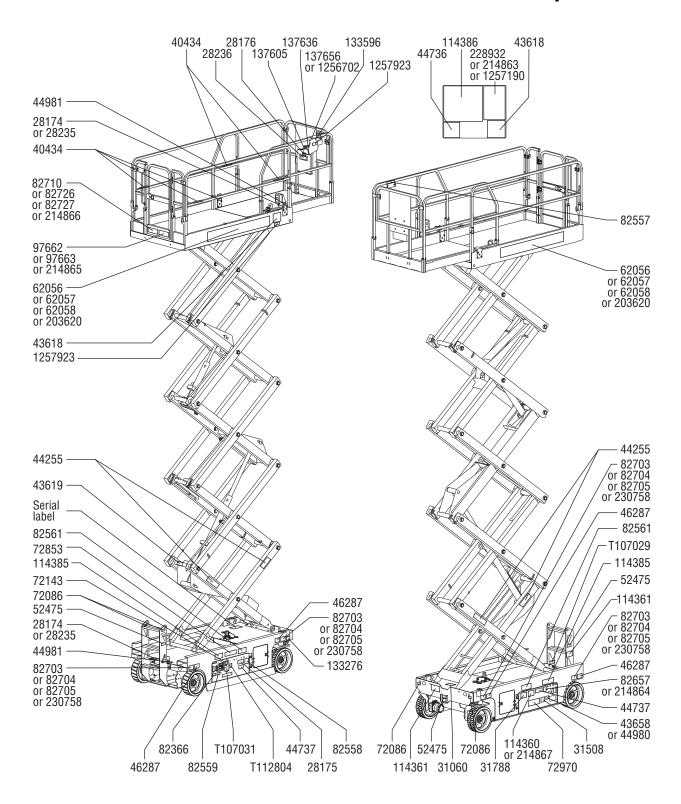
# Inspection for Decals with Words GS-2046, GS-2646, GS-3246 and GS-4047

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
28174	Label – Power to Platform, 230V	2
28175	Warning – Compartment Access	1
28176	Label – Missing Manuals	1
28235	Label – Power to Platform, 115V	2
28236	Warning – Improper Operation	1
31060	Danger - Tip-over Hazard, Limit Switch	1
31508	Danger – Electrocution Hazard	1
31788	Danger – Explosion/Burn Hazard	1
40434	Label – Lanyard Anchorage Point	5
43618	Label – Directional Arrows	2
43619	Label – Safety Arm	1
43658	Label - Power to Charger, 230V	1
44255	Danger – Crushing Hazard	4
44736	Danger – Tip-over Hazard, Tilt Alarm	1
44737	Danger – Tip-over Hazard, Trays Open	2
44980	Label - Power to Charger, 115V	1
44981	Label – Air Line to Platform, 110 PSI	2
46287	Label – Tire Specification	4
52475	Label – Transport Tie-down	5
62056	Cosmetic – Genie GS-2046	2
62057	Cosmetic – Genie GS-2646	2
62058	Cosmetic – Genie GS-3246	2
72086	Label – Lifting Point	4
72143	Label – Emergency Stop	1
72853	Danger – Improper Use Hazard	1
72970	Instructions - Battery Charger Operation	1
82366	Label – Chevron Rando	1
82557	Label – Platform Controls Location	1
82558	Warning – Skin Injection Hazard	1
82559	Instructions - Annual Inspection	1
82561	Danger – Crushing Hazard	2
82657	Instructions – Battery Connection Diagram	1
82703	Label - Wheel Load, GS-2046	4

Part No.	Decal Description	Qty
82704	Label – Wheel Load, GS-2646	4
82705	Label – Wheel Load, GS-3246	
82710	Instructions – Max Capacity, 1200 lbs / 544 kg, GS-2046	1
82726	Instructions – Max Capacity, 1000 lbs / 454 kg, GS-2646	1
82727	Instructions – Max Capacity, 700 lbs / 318 kg, GS-3246	1
97662	Instructions – Maximum Manual Force, GS-3246	1
97663	Instructions – Maximum Manual Force, GS-2046 and GS-2646	1
114360	Danger - Tip-over Hazard, Batteries	1
114361	Label – Transport Diagram	2
114385	Danger – Electrocution Hazard	2
114386	Danger – General Safety Rules	1
133276	Label – Emergency Lowering	1
133596	Label - Operational Indicator Codes	1
137605	Label – Emergency Stop, Platform Control	1
137636	Overlay – Platform Control Panel	1
137656	Label – Drive/Steer Direction, Platform Control	1
214863	Instructions – Operation, Platform Control, GS-4047	1
214864	Instructions – Battery Connection Diagram, GS-4047	1
214865	Instructions – Maximum Manual Force, GS-4047	1
214866	Instructions – Max Capacity, 770 lbs / 350 kg, GS-4047	1
214867	Danger – Tip-over Hazard, Batteries, GS-4047	1
228932	Instructions – Operation, Platform Control, GS-2046, GS-2646 & GS-3246	1
230620	Cosmetic – Genie GS-4047	2
230758	Label - Wheel Load, GS-4047	4
1256702	Overlay - Platform Control Panel	
1257190	Instructions – Operation, Platform Control	
1257923	Label – Smartlink	2
T107029	Danger/Instructions – Brake Release Safety and Operation	1
T107031	Instructions – Operation, Ground Control	1
T112804	Label – Ground Control Panel	





#### **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.

#### **Emergency Stop**

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

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

#### **Emergency Lowering**

1 Pull the emergency lowering knob to lower the platform.

#### **Operation from Ground**

- 1 Be sure the battery pack is connected before operating the machine.
- 2 Turn the key switch to ground control.
- 3 Pull out both ground and platform red Emergency Stop buttons to the on position.

#### **To Position Platform**

- 1 At the control panel, press and hold the lift function enable button.
- 2 Press the platform up or down button.

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

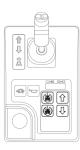
#### **Operation from Platform**

- 1 Be sure the battery pack is connected before operating the machine.
- 2 Turn the key switch to platform control.
- 3 Pull out both ground and platform red Emergency Stop buttons to the on position.

#### **Controller Identification**

These machines were produced with two different styles of platform controls. Use the button pattern on the platform controls to determine which instructions apply to your machine.

Use these instructions if the decal on your platform controls has these buttons.



#### To Position Platform

- Press and hold the high or low speed lift enable button.
- 2 Press the platform up or platform down button.









#### To Position Outriggers (GS-3232 models)

To Extend Outriggers:

 Press and hold the outrigger enable button.



2 Press and hold the outrigger extend button.

The outriggers will begin to extend. The individual outrigger indicator lights will flash green as the corresponding outrigger extends. Continue pressing the outrigger enable and the outrigger extend buttons until all outrigger indicator lights turn solid green and a long beep is heard from the platform controls alarm. The machine is now level.

Note: If the outrigger enable and extend buttons are released too soon during extension, the outrigger indicator lights will continue to flash green, indicating the outriggers are not contacting the ground.

Note: If the outrigger lights are solid green, the machine may not be level or the outriggers may not be fully deployed if a long beep is not heard at the platform controls alarm.

To Retract Outriggers:

 Press and hold the outrigger enable button.



2 Press and hold the outrigger retract button.

The outriggers will begin to retract. The outrigger indicator lights will turn solid green as the corresponding outrigger retracts. Continue pressing the outrigger enable and outrigger retract buttons until all outrigger indicator lights turn off, indicating all outriggers are completely retracted. All machine functions are now restored.

Note: If the outrigger enable and retract buttons are released too soon during retraction, the outrigger indicator lights will flash green, indicating the outriggers are not fully retracted.

#### To Steer

- 1 Press and hold the drive/steer 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 drive/steer 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.

Battery condition will affect machine performance. Machine drive speed and function speed will drop when the battery level indicator is flashing.

#### To select drive speed

The drive controls can operate in two different drive speed modes while in the stowed position. When the drive speed button light is on, slow drive speed mode is active. When the drive speed button light is off, fast drive speed mode is active.

Press the drive speed button to select the desired drive speed.



Note: When the platform is elevated, the drive speed button light is always on, indicating elevated drive speed.

#### **Controller Identification**

Use these instructions if the decal on your platform controls has these buttons.



#### To Position Platform

 Press the lift function button.
 On the LCD screen, a circle below the lift function symbol will turn on.



If the control handle is not moved within seven seconds of pushing the lift function button, the circle below the lift function symbol will turn off and lift function will not operate. Press the lift function button again.

- 2 Press and hold the function enable switch on the control handle.
- 3 Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.
- 4 Move the control handle according to the markings on the control panel.

#### To Position Outriggers (GS-3232 models)

To Extend Outriggers:

 Press the outrigger function button.
 On the LCD screen, a circle below the outrigger function symbol will turn on.



- 2 Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.
- 3 Move the control handle in the direction indicated by the yellow arrow.

The outriggers will begin to extend. The individual outrigger indicator light will turn solid green as the corresponding outrigger makes contact with the ground. Continue moving the control handle until the lift enable indicator light turns green and a beep is heard. The machine is now level. When the lift error indicator light turns red, the up/down and drive functions are disabled. The lift error indicator light will turn red under the following conditions:

- The platform is raised to 22 ft / 6.7 m and the outriggers are not deployed.
- Not all outriggers are in contact with the ground.
- All four outriggers are in contact with the ground but the machine is not level.
- Error code.

Note: If the outrigger enable and extend buttons are released too soon during extension, the outrigger indicator lights will continue to flash green, indicating the outriggers are not contacting the ground.

Note: If the outrigger lights are solid green, the machine may not be level or the outriggers may not be fully deployed if a long beep is not heard at the platform controls alarm.

To Retract Outriggers:

1 Press the outrigger function button.



- 2 Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time.
- 3 Move the control handle in the direction indicated by the blue arrow.

Release the control handle once the outriggers are off the ground. After approximately 5 seconds, the outrigger indicator lights will turn off. All functions are now restored.

Note: If the outrigger enable and retract buttons are released too soon during retraction, the outrigger indicator lights will flash green, indicating the outriggers are not fully retracted.

#### **To Steer**

1 Press the drive function button. On the LCD screen, a circle below the drive function symbol will turn on.

If the control handle is not moved within seven seconds of pushing the drive function button, the circle below the drive function symbol will turn off and drive function will not operate. Press the drive function button again.

- 2 Press and hold the foot switch (if equipped).
- 3 Turn the steer wheels with the thumb rocker switch located on the top of the control handle.



#### To Drive

1 Press the drive function button. On the LCD screen, a circle below the drive function symbol will turn on.

If the control handle is not moved within seven seconds of pushing the drive function button, the circle below the drive function symbol will turn off and drive function will not operate. Press the drive function button again.

- 2 Machines equipped with foot switch: Press and hold the foot switch and press and hold the function enable switch on the control handle at the same time
- 3 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.

Battery condition will affect machine performance. Machine drive speed and function speed will drop when the battery level indicator is flashing.

#### A Driving on a slope

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

#### Maximum slope rating, stowed position:



GS-1530, GS-1532, GS-2032, GS-2046 and GS-2646	30%	17°
GS-1930, GS-1932, GS-2632, GS-3232, GS-3246 and GS-4047	25%	14°

#### Maximum side slope rating, stowed position:



GS-1530, GS-1532, GS-2032, GS-2046, and GS-2646	30%	17°
GS-1930, GS-1932, GS-2632, GS-3232, GS-3246 and GS-4047	25%	14°

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

Press the drive speed button to the fast drive speed mode.

#### 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 1 m long
- tape measure

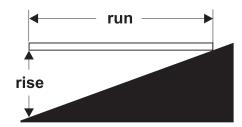
Lay the piece of wood on the slope.

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 vertical 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 = 3.6 m

 $Run = 3.6 \, m$ 

Rise = 0.3 m

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

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.

#### Operational indicator codes

If the platform controls LED or ground controls LCD diagnostic readout displays an operational indicator code such as LL, the fault condition must repaired or removed before resuming machine operation. Push in and pull out the red Emergency Stop button to reset the system.



LED Readout



LCD Readout

Operational Indicator Codes		
Code	Condition	
LL	Off-Level	
OL	Platform Overloaded	
СН	Chassis Mode Operation	
PHS	Pothole Guard Stuck	
Nd	No Drive (option)	
Ld	Lifting Disabled (GS-3232 only)	

For further information, please consult the appropriate Genie Service Manual. A code and a description of a code can also be viewed at the ground controls LCD display.

#### **Platform Overload**

If the platform controls LED diagnostic readout displays a flashing OL and the ground controls LCD diagnostic readout displays OL: Platform Overloaded, the platform is overloaded and no functions will operate. An alarm will sound.

- 1 Push in the Red Emergency stop button to the off position.
- 2 Remove weight from the platform.
- 3 Pull out the Red Emergency Stop button to the on position.



LFD Readout



LCD Readout

# Operation from Ground with Controller

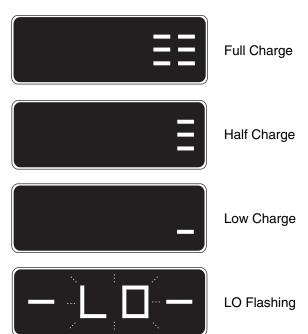
Maintain safe distances between the operator, machine and fixed objects.

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

#### **Battery Level Indicator**

Use the LED diagnostic readout to determine the battery level.

Note: When a blinking LO code appears on the platform controls LED display, the machine must be taken out of service and charged, otherwise all machine functions will be disabled.



#### How to Use the Safety Arm

- 1 Raise the platform approximately 2.4 m from the ground.
- 2 Rotate the safety arm away from the machine and let it hang down.
- 3 Lower the platform until the safety arm rests securely on the link. Keep clear of the safety arm when lowering the platform.

#### How to Fold Down the Guardrails

# GS-1530, GS-1930, GS-2032, GS-2632 and GS-3232

The platform railing system consists of one fold down rail section for the extension deck and one section for the main deck. All sections are held in place by four wire lock pins.

- 1 Fully lower the platform and retract the platform extension.
- 2 Remove the platform controls.
- 3 From inside the platform, remove the two rear extension deck wire lock pins.
- 4 From the rear of the extension deck railing, fold down the front rail assembly. Keep hands free of pinch points.
- 5 Replace the two removed pins back into each side rail bracket.
- 6 At the rear of the main deck, remove the two lower wire lock pins.
- 7 Carefully open the gate and move to the rear step or the ground.
- 8 From the rear step or from the ground, fold down the main deck railing assembly. Keep hands free of pinch points.
- 9 Replace the two removed pins back into each side rail bracket.

Note: To assist in the removal and replacement of the wire lock pins, pull or push back on the railing to compress the rubber bumpers.

#### GS-2046, GS-2646, GS-3246 and GS-4047

The platform railing system consists of three fold down rail sections for the extension deck and three sections for the main deck. All six sections are held in place by four wire lock pins.

- 1 Fully lower the platform and retract the platform extension.
- 2 Remove the platform controls.
- 3 From inside the platform, remove the two front wire lock pins.
- 4 Fold down the front rail assembly. Keep hands clear of pinch points.
- 5 Replace the two removed pins back into each side rail bracket.
- 6 Fold down each side rail assembly. Keep hands clear of pinch points.
- 7 At the rear of the main deck, remove the two wire lock pins.
- 8 Carefully open the gate and move to the ground.
- 9 Fold down the rear gate and entry side rails as one unit. Keep hands clear of pinch points.
- 10 Fold down the left and right side rails. Keep hands clear of pinch points.
- 11 Replace the two removed pins back into each side rail bracket.

#### How to Raise the Guardrails

Follow the fold down instructions but in reverse order, ensuring all lock pins are in place and installed properly.

#### After Each Use

- 1 Select a safe parking location—firm level surface, clear of obstruction 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 Charge the batteries.



#### **Battery and Charger Instructions**

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

- ☑ Do not use an external charger or booster battery.
- ☑ Charge the battery in a well-ventilated area.
- ☑ Use proper AC input voltage for charging as indicated on the charger.
- Use only a Genie authorized battery and charger.

#### To Charge Battery

- Be sure the batteries are connected before charging the batteries.
- 2 Open the battery compartment. The compartment should remain open for the entire charging cycle.

#### **Maintenance-free batteries**

- Connect the battery charger to a grounded AC circuit.
- 2 The charger will indicate when the battery is fully charged.

#### **Standard Batteries**

- 1 Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
- 2 Replace the battery vent caps.
- 3 Connect the battery charger to a grounded AC circuit.
- 4 The charger will indicate when the battery is fully charged.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

# Dry Battery Filling and Charging Instructions

- 1 Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
- 2 Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

- 3 Install the battery vent caps.
- 4 Charge the battery.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.



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

- Genie 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 label for the machine weight.

- ☐ The machine must be on a level surface or secured before releasing the brakes.
- Do not allow the rails to fall when the snap pins are removed. Maintain a firm grasp on the rails when the rails are lowered.
- Do not drive the machine on a slope that exceeds the uphill, downhill or side slope rating. See Driving on a Slope in the Operating Instructions section.
- If the slope of the transport vehicle bed exceeds the maximum slope rating, the machine must be loaded and unloaded using a winch as described in the brake release operation.

#### **Brake Release Operation**

 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 black brake release knob to open the brake valve.



4 Pump the red brake release pump knob.

After the machine is loaded:

- 1 Chock the wheels to prevent the machine from rolling.
- Pull out the red Emergency Stop button at both the ground and platform controls to the on position.
- 3 Press and hold the drive/steer function enable switch on the control handle. Move the control handle off center and immediately release it to reset the brakes.
- 4 Push the red Emergency stop button at both the ground and platform controls to the off position.

Towing the Genie GS-1530, GS-1532, GS-1930, GS-1932, GS-2032, GS-2632, GS-3232, GS-2046, GS-2646, GS-3246 and GS-4047 is not recommended. If the machine must be towed, do not exceed 3.2 km/h.

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

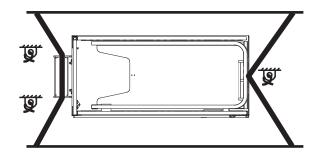
Always use the extension deck lock when the machine is transported.

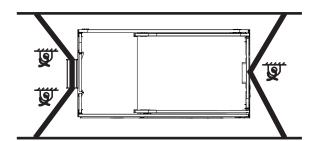
Turn the key switch to the off position and remove the key before transporting. Inspect the entire machine for loose or unsecured items.

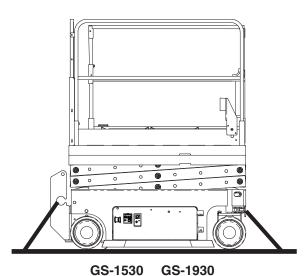
Use chains or straps of ample load capacity.

Use a minimum of 2 chains or straps.

Adjust the rigging to prevent damage to the chains.

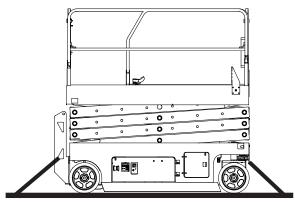






GS-1932

GS-1532



GS-2032 GS-2046 GS-2632 GS-2646 GS-3232 GS-3246 GS-4047



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

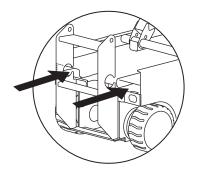
- Only qualified riggers should rig and lift the machine.
- ☑ Only qualified forklift operators should lift the machine with a forklift.
- ☑ Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial label for the machine weight.

#### Lifting the Machine with a Forklift

Be sure the extension deck, controls and component trays are secure. Remove all loose items on the machine.

Fully lower the platform. The platform must remain lowered during all loading and transport procedures.

Use the forklift pockets located on both sides of the ladder.



Position the forklift forks in position with the forklift pockets.

Drive forward to the full extent of the forks.

Raise the machine 0.4 m and then tilt the forks back slightly to keep the machine secure.

Be sure the machine is level when lowering the forks.



Lifting the machine from the side can result in component damage.

#### **Lifting Instructions**

Fully lower the platform. Be sure the extension deck, controls and component trays are secure. Remove all loose items on the machine.

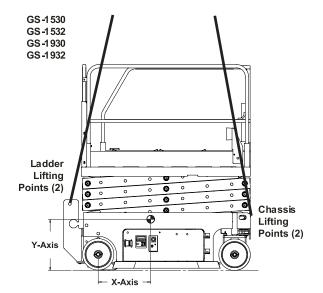
Determine the center of gravity of your machine using the table and the picture on this page.

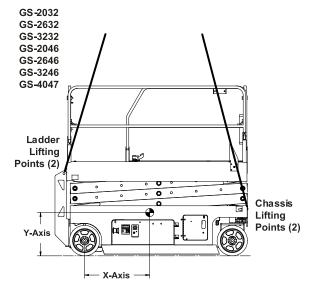
Attach the rigging only to the designated lifting points on the machine. There are two 2.5 cm holes on the front of the machine and two holes in the ladder for lifting.

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

#### **Center of Gravity Table**

Model	X Axis	Y Axis
GS-1530	49.8 cm	47.2 cm
GS-1532	49.8 cm	47.2 cm
GS-1930	50.8 cm	49.5 cm
GS-1932	50.8 cm	49.5 cm
GS-2032	80.9 cm	53.9 cm
GS-2632	82.2 cm	59.3 cm
GS-3232	78.7 cm	67.3 cm
GS-2046	82.7 cm	56.8 cm
GS-2646	88.2 cm	56.4 cm
GS-3246	83.7 cm	59.9 cm
GS-4047	85.8 cm	51.5 cm





#### **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.
- ✓ Use only Genie approved replacement parts.

#### **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 that the machine is on a firm, level surface, free of obstructions, with the platform in the stowed position.
- 2 Visually inspect the oil level in the hydraulic oil tank.
- Result: The hydraulic oil level should be between the ADD and FULL marks on the tank.
- 3 Add oil as needed. Do not overfill.

#### Hydraulic oil specifications

Hydraulic oil type Chevron Rando HD equivalent

#### **Maintenance**

#### **Check the Batteries**



Proper battery condition is essential to good machine performance and operational safety. Improper fluid levels or damaged cables and connections can result in 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.

Note: Perform this test after fully charging the batteries.

- 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 in place and secure.

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

#### **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.

Model	GS-1530 and GS-1532	
Height, working maximum	6.4 m	
Height, platform maximum	4.6 m	
Height, stowed maximum	206 cm	
Height, stowed maximum rails fo	lded 172 cm	
Platform height, stowed maximum	m 97 cm	
Height, guard rails	109 cm	
Width GS-1530 GS-1532	76 cm 81 cm	
Length, stowed	183 cm	
Length, platform extended	272 cm	
Platform extension length	89 cm	
Platform dimensions, (length x w	idth) 164 x 75 cm	
Maximum load capacity	272 kg	
Maximum wind speed GS-1530 GS-1532	0 m/s 12.5 m/s	
Wheelbase	132 cm	
Turning radius (outside)	155 cm	
Turning radius (inside)	0 cm	
Ground clearance	6.1 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight GS-1530 GS-1532	1257 kg 1269 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source	4 Batteries, 6V 225AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	12 x 4.5 x 8 in	
Vibration value does not exceed	2.5 m/s <sup>2</sup>	

	_
Operating temperature	
Minimum	-29°C
Maximum	66°C
Airborne noise emissions	_
Sound pressure level at ground workstation	on <70 dBA
Sound pressure level at platform workstat	tion <70 dBA
Maximum slope rating, stowed position	n 30% (17°)
Maximum side slope rating, stowed position	30% (17°)
Note: Slope rating is subject to ground co adequate traction.	nditions and
Drive speeds	
Stowed, maximum	4.0 km/h
Platform raised, maximum	0.8 km/h 12.5 m/55 sec
Floor loading information, GS-1530	
Tire load maximum	546 kg
Tire contact pressure	9.40 kg / cm² 921 kPa
Occupied floor pressure	1216 kg / m² 11.92 kPa
Floor loading information, GS-1532	
Tire load maximum	547 kg
Tire contact pressure	9.43 kg / cm² 924 kPa
Occupied floor pressure	1142 kg / m² 11.2 kPa

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

Model	GS-1930	
Height, working maximum	7.6 m	
Height, platform maximum	5.8 m	
Height, stowed maximum	210 cm	
Height, stowed maximum rails folded	175 cm	
Platform height, stowed maximum	100 cm	
Height, guard rails	109 cm	
Width	76 cm	
Length, stowed	183 cm	
Length, platform extended	272 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width)	164 x 75 cm	
Maximum load capacity	227 kg	
Maximum wind speed	0 m/s	
Wheelbase	132 cm	
Turning radius (outside)	155 cm	
Turning radius (inside)	0 cm	
Ground clearance	6.1 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight	1476 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 4 Batteries, 6V 225AH		
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	12 x 4.5 x 8 in	
Vibration value does not exceed 2.5 m/s²		

Operating temperature		
Minimum	-29°C	
Maximum	66°C	
Airborne noise emissions		
Sound pressure level at ground workstation	on <70 dBA	
Sound pressure level at platform workstati	on <70 dBA	
Maximum slope rating, stowed position	25% (14°)	
Maximum side slope rating, stowed position	25% (14°)	
Note: Slope rating is subject to ground conditions and adequate traction.		
Drive speeds	_	
Stowed, maximum	4.0 km/h	
Platform raised, maximum	0.8 km/h 12.5 m/55 sec	
Floor loading information, GS-1930		
Tire load maximum	600 kg	
Tire contact pressure	10.35 kg / cm² 1014 kPa	
Occupied floor pressure	1391 kg / m² 13.65 kPa	

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

Model	GS-1932	
Height, working maximum	7.5 m	
Height, platform maximum	5.6 m	
Height, stowed maximum	210 cm	
Height, stowed maximum rails folded	175 cm	
Platform height, stowed maximum	100 cm	
Height, guard rails	109 cm	
Width	81 cm	
Length, stowed	183 cm	
Length, platform extended	272 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width)	164 x 75 cm	
Maximum load capacity	227 kg	
Maximum wind speed	12.5 m/s	
Wheelbase	132 cm	
Turning radius (outside)	155 cm	
Turning radius (inside)	0 cm	
Ground clearance	6.1 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight	1503 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 4 Ba	atteries, 6V 225AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	12 x 4.5 x 8 in	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

Operating temperature		
Minimum	-29°C	
Maximum	66°C	
Airborne noise emissions		
Sound pressure level at ground workstation	on <70 dBA	
Sound pressure level at platform workstati	ion <70 dBA	
Maximum slope rating, stowed position	25% (14°)	
Maximum side slope rating, stowed position	25% (14°)	
Note: Slope rating is subject to ground conditions and adequate traction.		
Drive speeds		
Stowed, maximum	4.0 km/h	
Platform raised, maximum	0.8 km/h 12.5 m/55 sec	
Floor loading information, GS-1932		
Tire load maximum	600 kg	
Tire contact pressure	10.35 kg / cm² 1014 kPa	
Occupied floor pressure	1313 kg / m² 12.88 kPa	

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

Model	GS-2032	
Height, working maximum	7.9 m	
Height, platform maximum	6.1 m	
Height, stowed maximum fixed rail	202 cm	
Height, stowed maximum	212 cm	
Height, stowed maximum rails folded	178 cm	
Platform height, stowed maximum	103 cm	
Height, guard rails	109 cm	
Width	81 cm	
Length, stowed	244 cm	
Length, platform extended	333 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width)	226 x 81 cm	
Maximum load capacity	363 kg	
Maximum wind speed		
Indoor Outdoor	0 m/s 12.5 m/s	
-		
Wheelbase	185 cm	
Turning radius (outside)	212 cm	
Turning radius (inside)	0 cm	
Ground clearance	8.9 cm	
Ground clearance Pothole guards deployed	2.2 cm	
Weight	1830 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source	4 Batteries, 6V 225AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5 m/s²		
-		

Operating temperature		
Minimum	-29°C	
Maximum	66°C	
Airborne noise emissions		
Sound pressure level at ground workstation	n <70 dBA	
Sound pressure level at platform workstati	on <70 dBA	
Maximum slope rating, stowed position	30% (17°)	
Maximum side slope rating, stowed position	30% (17°)	
Note: Slope rating is subject to ground conditions and adequate traction.		
Drive speeds		
Stowed, maximum	3.5 km/h	
Platform raised, maximum	0.8 km/h 12.2 m/54 sec	
Floor loading information, GS-2032	_	
Tire load maximum	802 kg	
Tire contact pressure	8.29 kg / cm² 813 kPa	
Occupied floor pressure	1207 kg / m² 11.84 kPa	

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

Model	GS-2632	
Height, working maximum	9.8 m	
Height, platform maximum	7.9 m	
Height, stowed maximum	225 cm	
Height, stowed maximum rails folder	ed 191 cm	
Platform height, stowed maximum	116 cm	
Height, guard rails	109 cm	
Width	81 cm	
Length, stowed	244 cm	
Length, platform extended	333 cm	
Platform extension length	89 cm	
Platform dimensions, (length x widt	h) 226 x 81 cm	
Maximum load capacity	227 kg	
Maximum wind speed	0 m/s	
Wheelbase	185 cm	
Turning radius (outside)	212 cm	
Turning radius (inside)	0 cm	
Ground clearance	8.9 cm	
Ground clearance Pothole guards deployed	2.2 cm	
Weight	1959 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 2	Batteries, 6V 225AH	
Battery charger voltage	85-264 VAC	
	60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5		

Operating temperature		
Minimum	-29°C	
Maximum	66°C	
Airborne noise emissions		
Sound pressure level at ground workstation	n <70 dBA	
Sound pressure level at platform workstati	on <70 dBA	
Maximum slope rating, stowed position	25% (14°)	
Maximum side slope rating, stowed position	25% (14°)	
Note: Slope rating is subject to ground conditions and adequate traction.		
Drive speeds		
Stowed, maximum	3.5 km/h	
Platform raised, maximum	0.8 km/h 12.2 m/54 sec	
Floor loading information, GS-2632	_	
Tire load maximum	830 kg	
Tire contact pressure	8.58 kg / cm² 841 kPa	
Occupied floor pressure	1203 kg / m² 11.80 kPa	

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

Model	GS-3232	
Height, working maximum	11.6 m	
Height, working drivable	8.5 m	
Height, platform maximum	9.8 m	
Height, platform drivable	6.7 m	
Height, stowed maximum	238 cm	
Height, stowed maximum rails folder	d 204 cm	
Platform height, stowed maximum	129 cm	
Height, guard rails	109 cm	
Width	81 cm	
Length, stowed	244 cm	
Length, platform extended	333 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width	n) 226 x 81 cm	
Maximum load capacity	227 kg	
Maximum wind speed	0 m/s	
Wheelbase	185 cm	
Turning radius (outside)	212 cm	
Turning radius (inside)	0 cm	
Ground clearance	8.9 cm	
Ground clearance Pothole guards deployed	2.2 cm	
Weight	2352 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 4 Batteries, 6V 225AF		
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

Operating temperature	
Minimum	-29°C
Maximum	66°C
Airborne noise emissions	
Sound pressure level at ground workstation	n <70 dBA
Sound pressure level at platform workstation	on <70 dBA
Maximum slope rating, stowed position	25% (14°)
Maximum side slope rating, stowed position	25% (14°)
Note: Slope rating is subject to ground conadequate traction.	ditions and
Drive speeds	
Stowed, maximum	3.5 km/h
Platform raised, maximum	0.8 km/h 12.2 m/54 sec
Floor loading information, GS-3232	
Tire load maximum	771 kg
Tire contact pressure	7.98 kg / cm² 781 kPa
Occupied floor pressure	1420 kg / m <sup>2</sup> 13.92 kPa

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

Height, working maximum Height, platform maximum Height, stowed maximum Height, stowed maximum rails folded Platform height, stowed maximum Height, guard rails  109 cm Width 116 cm Length, platform extended 1333 cm Platform extension length Reight guard rails  109 cm Width 116 cm Length, platform extended 1333 cm Platform extension length 126 x 116 cm Maximum load capacity 126 x 116 cm Maximum wind speed Indoor 10 m/s Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 241 bar (functions) Tire size 15 x 5 x 11.25 in	Model	GS-2046	
Height, stowed maximum rails folded 156 cm Platform height, stowed maximum 104 cm Height, guard rails 109 cm Width 116 cm Length, stowed 244 cm Length, platform extended 333 cm Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 24V AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Height, working maximum	7.9 m	
Height, stowed maximum rails folded Platform height, stowed maximum 104 cm Height, guard rails 109 cm Width 116 cm Length, stowed 244 cm Length, platform extended 333 cm Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 9.5 cm Ground clearance Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 24V AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Height, platform maximum	6.1 m	
Platform height, stowed maximum Height, guard rails 109 cm Width 116 cm Length, stowed 244 cm Length, platform extended 333 cm Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Height, stowed maximum	213 cm	
Height, guard rails  Width  116 cm  Length, stowed  244 cm  Length, platform extended  Platform extension length  89 cm  Platform dimensions, (length x width)  Maximum load capacity  544 kg  Maximum wind speed Indoor  Outdoor  Turning radius (outside)  Turning radius (inside)  Ground clearance  Ground clearance  Pothole guards deployed  Weight  Maximum wind speed inside in the pattern of the pothole serial label for specific machine weight.)  Power source  4 Batteries, 6V  225AH  Battery charger voltage  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  15 x 5 x 11.25 in	Height, stowed maximum rails folded	156 cm	
Width 116 cm Length, stowed 244 cm Length, platform extended 333 cm Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 24V AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Platform height, stowed maximum	104 cm	
Length, stowed 244 cm Length, platform extended 333 cm Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 24V AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Height, guard rails	109 cm	
Length, platform extended 333 cm  Platform extension length 89 cm  Platform dimensions, (length x width) 226 x 116 cm  Maximum load capacity 544 kg  Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s  Wheelbase 185 cm  Turning radius (outside) 229 cm  Turning radius (inside) 0 cm  Ground clearance 9.5 cm  Ground clearance 1.9 cm  Pothole guards deployed  Weight 1945 kg  (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Width	116 cm	
Platform extension length 89 cm Platform dimensions, (length x width) 226 x 116 cm Maximum load capacity 544 kg Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s Wheelbase 185 cm Turning radius (outside) 229 cm Turning radius (inside) 0 cm Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.) Power source 4 Batteries, 6V 225AH Battery charger voltage 85-264 VAC 60/50 Hz, 900 W System voltage 24V AC outlet in platform Standard Maximum hydraulic pressure (functions) Tire size 15 x 5 x 11.25 in	Length, stowed	244 cm	
Platform dimensions, (length x width)  Maximum load capacity  Maximum wind speed Indoor  Outdoor  Outdoor  Turning radius (outside)  Ground clearance  Pothole guards deployed  Weight  Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source  4 Batteries, 6V  225AH  Battery charger voltage  System voltage  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  10 m/s  244 kg  247 kg  Maximum hydraulic pressure (functions)  Tire size  15 x 5 x 11.25 in	Length, platform extended	333 cm	
Maximum load capacity544 kgMaximum wind speed Indoor0 m/sOutdoor12.5 m/sWheelbase185 cmTurning radius (outside)229 cmTurning radius (inside)0 cmGround clearance9.5 cmGround clearance pothole guards deployed1.9 cmWeight1945 kg(Machine weights vary with option configurations. See serial label for specific machine weight.)Power source4 Batteries, 6V 225AHBattery charger voltage85-264 VAC 60/50 Hz, 900 WSystem voltage24VAC outlet in platformStandardMaximum hydraulic pressure (functions)241 barTire size15 x 5 x 11.25 in	Platform extension length	89 cm	
Maximum wind speed Indoor 0 m/s Outdoor 12.5 m/s  Wheelbase 185 cm  Turning radius (outside) 229 cm  Turning radius (inside) 0 cm  Ground clearance 9.5 cm  Ground clearance 1.9 cm  Pothole guards deployed  Weight 1945 kg  (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Platform dimensions, (length x width)	226 x 116 cm	
Indoor         0 m/s           Outdoor         12.5 m/s           Wheelbase         185 cm           Turning radius (outside)         229 cm           Turning radius (inside)         0 cm           Ground clearance         9.5 cm           Ground clearance pothole guards deployed         1.9 cm           Weight         1945 kg           (Machine weights vary with option configurations. See serial label for specific machine weight.)           Power source         4 Batteries, 6V           225AH           Battery charger voltage         85-264 VAC           60/50 Hz, 900 W           System voltage         24V           AC outlet in platform         Standard           Maximum hydraulic pressure (functions)         241 bar           Tire size         15 x 5 x 11.25 in	Maximum load capacity	544 kg	
Turning radius (outside)  Turning radius (inside)  Ground clearance  Ground clearance  Pothole guards deployed  Weight  (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source  4 Batteries, 6V  225AH  Battery charger voltage  85-264 VAC 60/50 Hz, 900 W  System voltage  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  15 x 5 x 11.25 in	Indoor		
Turning radius (inside) 0 cm  Ground clearance 9.5 cm  Ground clearance 1.9 cm  Pothole guards deployed  Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Wheelbase	185 cm	
Ground clearance 9.5 cm Ground clearance 1.9 cm Pothole guards deployed  Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Turning radius (outside)	229 cm	
Ground clearance Pothole guards deployed  Weight 1945 kg (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Turning radius (inside)	0 cm	
Pothole guards deployed  Weight 1945 kg  (Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source 4 Batteries, 6V 225AH  Battery charger voltage 85-264 VAC 60/50 Hz, 900 W  System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Ground clearance	9.5 cm	
(Machine weights vary with option configurations. See serial label for specific machine weight.)  Power source  4 Batteries, 6V 225AH  Battery charger voltage  85-264 VAC 60/50 Hz, 900 W  System voltage  24V  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  15 x 5 x 11.25 in		1.9 cm	
serial label for specific machine weight.)  Power source  4 Batteries, 6V 225AH  Battery charger voltage  85-264 VAC 60/50 Hz, 900 W  System voltage  24V  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  15 x 5 x 11.25 in	Weight	1945 kg	
Battery charger voltage  85-264 VAC 60/50 Hz, 900 W  System voltage  AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  225AH  85-264 VAC 60/50 Hz, 900 W  System voltage 24V  At outlet in platform  Standard  15 x 5 x 11.25 in	(Machine weights vary with option configurations. See		
System voltage 24V  AC outlet in platform Standard  Maximum hydraulic pressure (functions)  Tire size 15 x 5 x 11.25 in	Power source	,	
AC outlet in platform  Standard  Maximum hydraulic pressure (functions)  Tire size  Standard  241 bar  15 x 5 x 11.25 in	Battery charger voltage		
Maximum hydraulic pressure (functions)  Tire size 241 bar 15 x 5 x 11.25 in	System voltage	24V	
(functions) Tire size 15 x 5 x 11.25 in	AC outlet in platform	Standard	
		241 bar	
Vibration value does not exceed 2.5 m/s²	Tire size	15 x 5 x 11.25 in	
	Vibration value does not exceed 2.5 m	/s²	

Operating temperature	
Minimum	-29°C
Maximum	66°C
Airborne noise emissions	
Sound pressure level at ground workstation	n <70 dBA
Sound pressure level at platform workstati	on <70 dBA
Maximum slope rating, stowed position	30% (17°)
Maximum side slope rating, stowed position	30% (17°)
Note: Slope rating is subject to ground coradequate traction.	nditions and
Drive speeds	
Stowed, maximum	3.5 km/h
Platform raised, maximum	0.8 km/h 12.2 m/54 sec
Floor loading information, GS-2046	
Tire load maximum	964 kg
Tire contact pressure	9.97 kg / cm² 977 kPa
Occupied floor pressure	953 kg / m² 9.35 kPa

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

Model	GS-2646	
Height, working maximum	9.8 m	
Height, platform maximum	7.9 m	
Height, stowed maximum	225 cm	
Height, stowed maximum rails fold	ded 168 cm	
Platform height, stowed maximum	116 cm	
Height, guard rails	109 cm	
Width	116 cm	
Length, stowed	244 cm	
Length, platform extended	333 cm	
Platform extension length	89 cm	
Platform dimensions, (length x wid	dth) 226 x 116 cm	
Maximum load capacity	454 kg	
Maximum wind speed	•	
Indoor Outdoor	0 m/s 12.5 m/s	
Wheelbase	185 cm	
Turning radius (outside)	229 cm	
Turning radius (inside)	0 cm	
Ground clearance	9.5 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight	2412 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source	4 Batteries, 6V 225AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		
-		

Operating temperature	
Minimum	-29°C
Maximum	66°C
Airborne noise emissions	
Sound pressure level at ground workstatic	on <70 dBA
Sound pressure level at platform workstati	ion <70 dBA
Maximum slope rating, stowed position	າ 30% (17°)
Maximum side slope rating, stowed position	30% (17°)
Note: Slope rating is subject to ground coradequate traction.	nditions and
Drive speeds	
Stowed, maximum	3.5 km/h
Platform raised, maximum	0.8 km/h 12.2 m/54 sec
Floor loading information, GS-2646	
Tire load maximum	1136 kg
Tire contact pressure	11.75 kg / cm² 1152 kPa
Occupied floor pressure	1097 kg / m² 10.76 kPa

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

Model	GS-3246	
Height, working maximum	11.6 m	
Height, platform maximum	9.8 m	
Height, stowed maximum	238 cm	
Height, stowed maximum rails folded	181 cm	
Platform height, stowed maximum	129 cm	
Height, guard rails	109 cm	
Width	116 cm	
Length, stowed	244 cm	
Length, platform extended	333 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width)	226 x 116 cm	
Maximum load capacity	318 kg	
Maximum wind speed Indoor Outdoor	0 m/s 12.5 m/s	
Wheelbase	185 cm	
Turning radius (outside)	229 cm	
Turning radius (inside)	0 cm	
Ground clearance	9.5 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight	2781 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 4 Ba	tteries, 6V 225AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24V	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5 m/s²		

Operating temperature		
Minimum	-29°C	
Maximum	66°C	
Airborne noise emissions	_	
Sound pressure level at ground workstatic	on <70 dBA	
Sound pressure level at platform workstati	ion <70 dBA	
Maximum slope rating, stowed position	25% (14°)	
Maximum side slope rating, stowed position	25% (14°)	
Note: Slope rating is subject to ground conditions and adequate traction.		
Drive speeds		
Stowed, maximum	3.5 km/h	
Platform raised, maximum	0.8 km/h 12.2 m/54 sec	
Floor loading information, GS-3246	_	
Tire load maximum	1183 kg	
Tire contact pressure	12.24 kg / cm² 1199 kPa	
Occupied floor pressure	1186 kg / m² 11.63 kPa	

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

Model	GS-4047	
Height, working maximum	13.7 m	
Height, platform maximum	11.7 m	
Height, stowed maximum	254 cm	
Height, stowed maximum rails folded	195 cm	
Platform height, stowed maximum	143 cm	
Height, guard rails	109 cm	
Width	119 cm	
Length, stowed	248 cm	
Length, platform extended	338 cm	
Platform extension length	89 cm	
Platform dimensions, (length x width)	226 x 116 cm	
Maximum load capacity	350 kg	
Maximum wind speed	0 m/s	
Wheelbase	185 cm	
Turning radius (outside)	231 cm	
Turning radius (inside)	0 cm	
Ground clearance	9.5 cm	
Ground clearance Pothole guards deployed	1.9 cm	
Weight	3221 kg	
(Machine weights vary with option configurations. See serial label for specific machine weight.)		
Power source 4 Batte	eries, 12V 150AH	
Battery charger voltage	85-264 VAC 60/50 Hz, 900 W	
System voltage	24v	
AC outlet in platform	Standard	
Maximum hydraulic pressure (functions)	241 bar	
Tire size	15 x 5 x 11.25 in	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

Operating temperature	
Minimum	-29°C
Maximum	66°C
Airborne noise emissions	
Sound pressure level at ground workstation	n <70 dBA
Sound pressure level at platform workstation	on <70 dBA
Maximum slope rating, stowed position	25% (14°)
Maximum side slope rating, stowed position	25% (14°)
Note: Slope rating is subject to ground conadequate traction.	ditions and
Drive speeds	
Stowed, maximum	3.2 km/h
Platform raised, maximum	0.8 km/h 12 m/71 sec
Floor loading information, GS-4047	
Tire load maximum	1289 kg
Tire contact pressure	13.33 kg / cm² 1306 kPa
Occupied floor pressure	1338 kg / m <sup>2</sup>

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

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