



# ***Operator's Manual***

Serial Number Range

***S-80***

after S8008-8000

***S-85***

**ANSI/CSA  
North America  
South America  
Asia**

**AUS  
Australia**

**with  
Maintenance  
Information**

**Sixth Edition  
Second Printing  
Part No. 133070**

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## Important

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

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These machines comply with  
ANSI/SIA 92.5  
CAN B.354.4

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## Introduction

### Owners, Users and Operators:

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

- 1 **Comply** with employer, job site and governmental rules.
- 2 **Read, understand and follow** the instructions in this and other manuals supplied with this machine.
- 3 **Use good safe work practices** in a commonsense way.
- 4 **Only have trained/certified operators**, directed by informed and knowledgeable supervision, running the machine.

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

Internet: [www.genielift.com](http://www.genielift.com)

E-mail: [techpub@genieind.com](mailto:techpub@genieind.com)



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### Danger

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

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### Do Not Operate Unless:

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

#### 1 Avoid hazardous situations.

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

- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.

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

## Introduction

### Hazard Classification

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



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

#### **▲ DANGER**

Red

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

#### **▲ WARNING**

Orange

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

#### **▲ CAUTION**

Yellow

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

#### **NOTICE**

Blue

Indicates a 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.







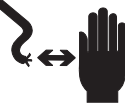
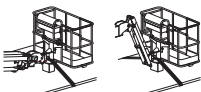
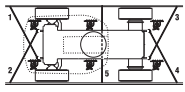
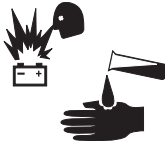





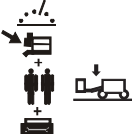
### Safety Sign Maintenance

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

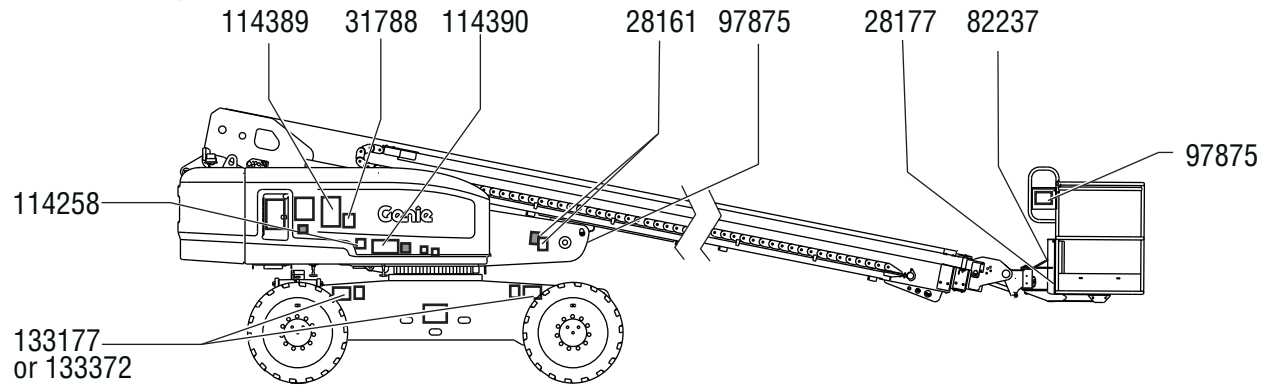
 <p>Crush Hazard</p>	 <p>Keep away from moving parts.</p>	 <p>Explosion Hazard</p>	 <p>No smoking. No flame. Stop engine.</p>	 <p>Electrocution Hazard</p>
 <p>Maintain required clearance.</p>	 <p>Crush Hazard</p>	 <p>Keep away from path of moving platform.</p>	 <p>Fall Hazard</p>	 <p>Keep off this surface.</p>
 <p>Tip-over Hazard</p>	 <p>Platform downhill: 1 Retract boom. 2 Lower boom.</p>	 <p>Platform uphill: 1 Lower boom. 2 Retract boom.</p>	 <p>Tip-over Hazard</p>	 <p>Replace tires with same tire.</p>
 <p>Tip-over Hazard</p>	 <p>Read the operator's manual.</p>	 <p>Only trained maintenance personnel should access compartments.</p>	 <p>Tip-over Hazard</p>	 <p>See serial label for rated capacity.</p>

## Symbol and Hazard Pictorials Definitions

 <p>Lanyard attachment point</p>	 <p>Wheel load</p>	 <p>Voltage rating for power to platform</p>	 <p>Pressure rating for air line to platform</p>	 <p>Have fire extinguisher near.</p>
 <p>Electrocution Hazard</p>	 <p>Avoid contact.</p>	 <p>Tie-down instructions</p>	 <p>Tie-down instructions</p>	 <p>Explosion/Burn Hazard</p>
 <p>Explosion Hazard</p>	 <p>Do not use ether or other high energy starting aids on machines equipped with glow plugs.</p>	 <p>Keep open flames away.</p>	 <p>Fire Hazard</p>	
 <p>Read service manual.</p>	 <p>Weight of welder reduces capacity.</p>			

# General Safety

## Safety signs and locations



**97875**

**WARNING**

Electrocution Hazard  
Failure to properly connect and use the wrist tie to platform could result in death or serious injury.

Read, understand and obey all warnings and instructions provided with working power unit. Turn working power unit off before connecting leads.

Be sure wrist cables are properly connected.  
DO NOT exceed 40V, 300 amp maximum.

Component Damage  
Failure to properly connect wrist leads may result in machine or component damage.

Turn working power unit off before connecting leads.

Connect leads to both non-conducting all-insulating and platform.

133372 A

**133372**

**⚠ DANGER**

**Tip-over Hazard**  
Failure to replace tires with tires of same specification will cause death or serious injury.

Tires are critical to machine stability.

Do not replace factory-installed tires with tires of different specification or ply rating.

**S-80 High Flotation Tire Size**  
41/18LX22.5 14PR

**Tire Pressure**  
60 psi / 4.1 bar

**Lug Nut Torque**  
Dry bolts:  
420 ft-lbs / 569.5 Nm  
Lubricated bolts:  
320 ft-lbs / 433.9 Nm

133372 A

**133177**

**⚠ DANGER**

**Tip-over Hazard**  
Do not use air-filled tires.

This machine is equipped with foam-filled tires.

Wheel weight and proper counterweight configuration are critical to stability.

**Tire Size**  
18-625, 16 Ply, Foam-filled

**Lug Nut Torque**  
Dry bolts:  
420 ft-lbs / 569.5 Nm  
Lubricated bolts:  
320 ft-lbs / 433.9 Nm

133177 A

**⚠ DANGER**

**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:

1. Avoid hazardous situations.
2. Always perform a pre-operation inspection.
3. Always perform function tests prior to use.
4. Inspect work piece.
5. Only use the machine as it was intended.

Do not operate unless:

- You read, understand and obey manufacturer's instructions and safety rules—safety and operator's manuals and decals—employer's safety rules
- radiation governmental regulations

You are expressly trained to safely operate this machine.

**Electrocution Hazards**

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

**Minimum Required Clearances**

Use Voltage	Required Clearance
0 to 50KV	10 ft. 3.0 m
50 to 200KV	15 ft. 4.6 m
200 to 350KV	20 ft. 6.1 m
350 to 500KV	25 ft. 7.6 m
500 to 750KV	35 ft. 10.6 m
750 to 1000KV	45 ft. 13.7 m

Do not raise boom 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. Necessary area exposed to wind will decrease machine stability.

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

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

Use extreme care and slow speeds while driving the machine. A limited position allows uneven terrain, debris, unstable or slippery surfaces and near ropes and drags.

Do not attempt to free a caught or snagged platform using platform controls. All personnel must be removed from platform before attempting to free platform using ground controls.

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

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.

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

Do not use machine on moving or unstable surface or vehicle.

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

**Fall Hazards**

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

Do not sit, stand or climb on the platform guard rails.

Maintain a firm footing on the platform floor at all times.

Do not climb down from the platform when raised.

Lower the platform entry ramp or close the entry gate before operating.

**Collision Hazards**

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

Check work area for overhead obstructions or other possible hazards.

Be aware of crushing hazard when preparing the platform guard rail.

Observe and use red-colored direction arrows on the platform controls and drive chains for drive and steer functions.

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

**Explosion Hazard**

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

Do not refuel the machine with the engine running.

**Damaged Machine Hazards**

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.

114389 A

**82237**

**⚠ DANGER**

**Electrocution Hazard**  
Contact with energized components can result in death or serious injury.

**Avoid contact with energized components.**

82237 B

**114390**

**⚠ DANGER**

**Electrocution Hazard**  
Death or injury can result from contacting electric power lines.

Always contact the electric power line owner. The electric power shall be disconnected or the power lines moved or insulated before machine operations begin.

114390 A

Maintain required clearance.	
Line Voltage	Required Clearance
0 to 50KV	10 ft. 3.0 m
50 to 200KV	15 ft. 4.6 m
200 to 350KV	20 ft. 6.1 m
350 to 500KV	25 ft. 7.6 m
500 to 750KV	35 ft. 10.6 m
750 to 1000KV	45 ft. 13.7 m

**28177**

**⚠ WARNING**

**Crush Hazard**  
Death or serious injury may result from platform crushing personnel against boom.

**Keep away from path of moving platform.**

28177 C

**114258**

**⚠ DANGER**

**Burn Hazard**  
Fuel and fumes can explode and burn.

**No smoking. No flame. Stop engine.**

114258 A

**31788**

**⚠ DANGER**

**Explosion / Burn Hazard**  
Ignition of machine, fumes or contact with corrosive acid will cause death, burns or blindness.

Keep all open flames and sparks away. Wear personal protective equipment, including face shield, gloves and long sleeve shirt.

**READ MANUALS**  
Read all manuals prior to operation.

DO NOT OPERATE equipment if you do not understand the information in the manuals.

Consult your supervisor, the owner or the manufacturer.

31788 C

**28161**

**⚠ WARNING**



**Crush Hazard**  
Contact with moving parts can result in death or serious injury.

**Keep away from moving parts.**

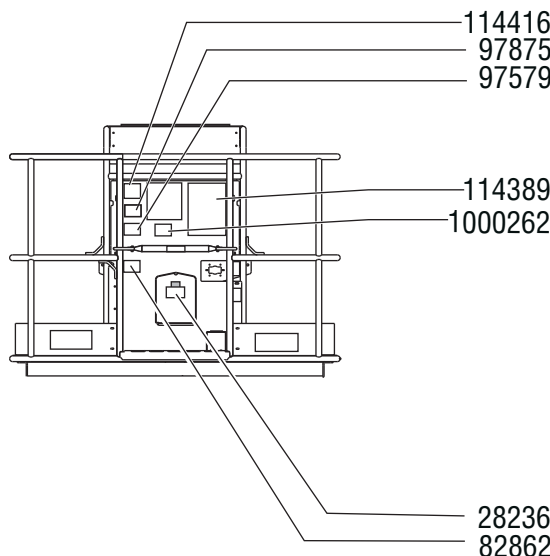
28161 C

## Safety signs and locations

**82862**

<b>⚠ DANGER</b>	
	<p><b>Fire Hazard</b></p> <p>Serious injury or death will result if fire occurs while operating welder and fire extinguisher is not available.</p>
	<p>Do not operate welder unless fire extinguisher is immediately available for instant use, per OSHA regulation 1926.352(d).</p>

82862 B



# WARNING

**Electrocution Hazard**  
Failure to properly connect and use the weld line to platform could result in death or serious injury.

Read, understand and obey all warnings and instructions provided with welding power unit.

Turn welding power unit off before connecting leads.

Be sure weld cables are properly connected.

DC weld only: 40V, 300 amp maximum.

**Component Damage Hazard**  
Failure to properly connect weld leads may result in machine or component damage.

Turn welding power unit off before connecting leads.

Connect leads to twist-lock connectors at turntable and platform.

97875 A



## WARNING

**Read the manual and the operator's and maintenance instructions carefully before use. Failure to use panel cradles according to instructions and safety rules, failure to use the operator's and maintenance instructions could result in death or serious injury.**

**Reading Injury Hazard**

Do not exceed rated platform capacity. Combined weight of cradles, panels, occupants, tools and any other equipment used may exceed rated capacity.

Panel capacity exceeds weight 160 lbs. (73 kg).

Maximum capacity of panel cradles is 250 lbs. / 113 kg.

Weight of panel cradles and load in panel cradles may limit maximum number of occupants in platform to two persons.

Do not use platform as a storage area.

Secure panels to platform using only straps provided.

Do not use hazardous areas and do not use platform in areas of falling objects.

Do not use platform in areas of falling objects.

Maximum vertical height of platform: 4.7 / 1.2 m.

Maximum wheel diameter: 15 1/8 in. / 37.7 cm.

Maximum wheel width: 10 1/2 in. / 26.7 cm.


Maximum wheel spacing: 20 1/2 in. / 51.9 cm.

Maximum wheel diameter: 15 1/8 in. / 37.7 cm.

Maximum wheel width: 10 1/2 in. / 26.7 cm.

Maximum wheel spacing: 20 1/2 in. / 51.9 cm.

72875


WARNING

**Leading Injury Hazard**

**Failure to use pipe cable assembly according to instructions and safety rules may result in operator's and responsible personnel's mortal or death or serious injury.**

**Do not exceed rated platform capacity.**  
 Pipe cable assembly and weight in pipe cables will reduce rated platform capacity and must be factored into total platform load.

**Pipe cable assembly weighs 21 lbs / ft.**

**Maximum capacity of pipe cable assembly is 3000 lbs. / 14 kg.**

**Amount of pipe cable assembly and load in pipe cables may limit maximum number of telescopic platforms.**

**Center load within perimeter of platform.**

**Secure load to platform.**

**Do not obstruct or interfere with platform controls.**

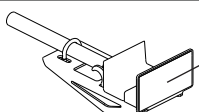
**Do not obstruct ability to operate platform controls or red Emergency Stop button.**

**Do not engage platform pipe cable assembly until platform is fully extended and locked.**

**Do not connect to movement of platform with unauthorizing.**

**Do not cause a horizontal force or side load to the platform, pulling or twisting force or overhauling force.**

**Electrocution Hazard:** Keep your hands off all energized electrical conductors.




## General Safety

### Safety signs and locations

114390

**⚠ DANGER**



**Electrocution Hazard**  
Death or injury can result from contacting electric power lines.


Always contact the electric power line owner. The electric power shall be disconnected or the power lines moved or insulated before machine operations begin.

Maintain required clearance.		
Line Voltage	Required Clearance	
0 to 50KV	10 ft	3.0 m
50 to 200KV	15 ft	4.6 m
200 to 350KV	20 ft	6.1 m
350 to 500KV	25 ft	7.6 m
500 to 750KV	35 ft	10.6 m
750 to 1000KV	45 ft	13.7 m

114390 A


28175

**⚠ WARNING**



Compartment access is restricted. Contact with components under any cover may result in serious injury.


28175 G




Only trained maintenance personnel should access compartments. Access by operator is only advised when performing Pre-operation Inspection. All compartments must remain closed and secured during operation.

97602

**⚠ WARNING**



**Explosion Hazard**  
Death or serious injury can result from the use of either or other high energy starting aids.



Do not use ether or other high energy starting aids on machines equipped with glow plugs.

97602 B

28181

**⚠ WARNING**



**Fall Hazard**  
Death or serious injury may result from climbing or riding on boom.




Keep off this surface.


28181 C

133177

**⚠ DANGER**



**Tip-over Hazard**  
Do not use air-filled tires.



This machine is equipped with foam-filled tires. Wheel weight and proper counterweight configuration are critical to stability.


133177 A

**Tire Size**  
18-625, 18 Ply, Foam-filled


**Lug Nut Torque**  
Dry bolts: 420 ft-lbs / 569.5 Nm  
Lubricated bolts: 320 ft-lbs / 433.9 Nm

28161

**⚠ WARNING**



**Crush Hazard**  
Contact with moving parts can result in death or serious injury.




Keep away from moving parts.


28161 C

28177

**⚠ WARNING**



**Crush Hazard**  
Death or serious injury may result from platform crushing personnel against boom.



Keep away from path of moving platform.

28177 C

133372

**⚠ DANGER**

**Tip-over Hazard**  
Failure to replace tires with tires of same specification will cause death or serious injury.

Tires are critical to machine stability. Do not replace factory-installed tires with tires of different specification or ply rating.

133372 A

**S-80 High Flotation**  
Tire Size: 41/18LLx22.5 14PR  
Tire Pressure: 60 psi / 4.1 bar  
Lug Nut Torque: Dry bolts: 420 ft-lbs / 569.5 Nm  
Lubricated bolts: 320 ft-lbs / 433.9 Nm

28161

28181

28177

97602

28175

133177  
or 133372

28161

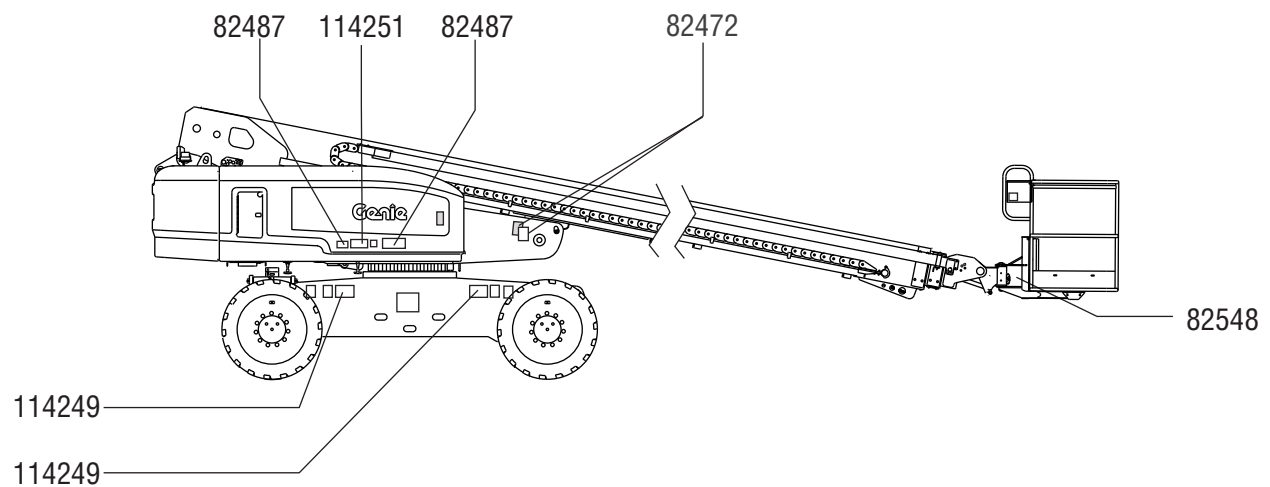
133177  
or 133372

114390

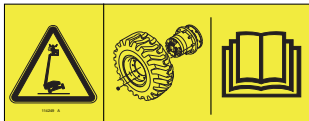
**Genie**  
A TEREX COMPANY

## General Safety

### Safety signs and locations



114249



82487



114251



133067



82472



82548



82481



## General Safety

### Safety signs and locations

82487



114473



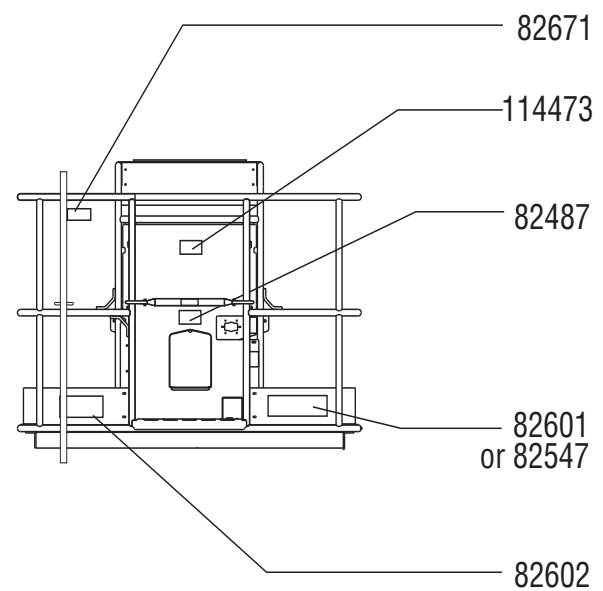
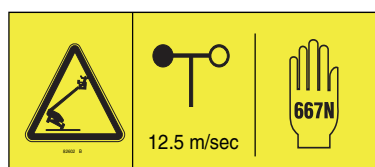
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82547



82602



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**Genie**  
A TEREX COMPANY

## General Safety

### Safety signs and locations

114247



82671



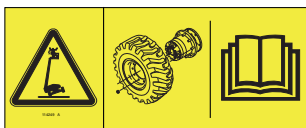
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82472



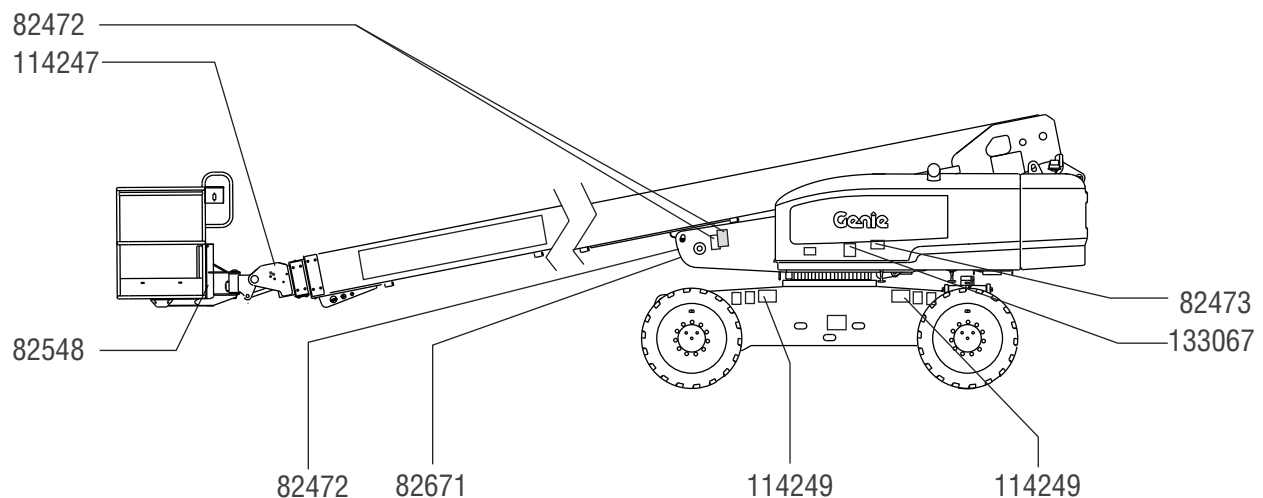
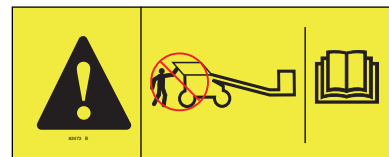
114249



133067



82473



## Personal Safety

### Fall Protection

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

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

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

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

## Work Area Safety

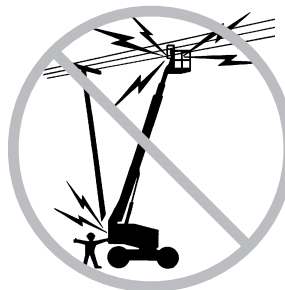
### Electrocution Hazards

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	10 ft	3.0 m
50 to 200KV	15 ft	4.6 m
200 to 350KV	20 ft	6.1 m
350 to 500KV	25 ft	7.6 m
500 to 750KV	35 ft	10.6 m
750 to 1000KV	45 ft	13.7 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 for the restricted or unrestricted range of motion.

<b>Maximum platform capacity</b>		
<b>S-85</b>	500 lbs	227 kg
<b>Maximum platform capacity</b>		
<b>S-80 with 8 Ft Platform</b>	500 lbs	227 kg
<b>Maximum platform capacity</b>		
<b>S-80 with 6 Ft Platform</b>	500 lbs	227 kg
<b>Maximum platform capacity</b>		
<b>S-80 with foam-filled tires and proper counterweight configuration</b>	750 lbs	340 kg
<b>Maximum occupants</b>		2

**S-80 750 lb / 340 kg Capacity Boom:** Do not attach a platform rated at 750 lbs / 340 kg to machines with any other rated load. See the serial label for the maximum rated load.

## Work Area Safety

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



If using accessories, read, understand and obey the decals and instructions with the accessory.

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

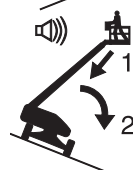


Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds in the platform only when the machine is on a severe slope.

If the tilt alarm sounds when the platform is raised: Use extreme caution. Identify the condition of the boom on the slope. Follow the steps to lower the boom before moving to a firm, level surface. Do not rotate the boom while lowering.



If the tilt alarm sounds with the platform uphill:  
First lower the boom, then retract the boom.



If the tilt alarm sounds with the platform downhill:  
First retract the boom, then lower the boom.



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

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

## Work Area Safety



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

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

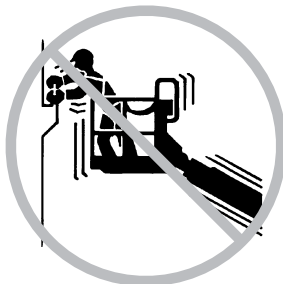
Do not use the machine as a crane.

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

Do not contact adjacent structures with the boom.

Do not tie the boom or platform to adjacent structures.

Do not place loads outside the platform perimeter.



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

---

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

---

**Maximum allowable  
manual force - AUS**  
90 lbs / 400 N

---

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

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

Do not replace factory-installed tires with tires of different specification or ply rating.

Do not replace factory-installed foam-filled tires with air-filled tires. Wheel weight is critical to stability.

High flotation tires must be factory-installed. Do not replace standard factory-installed tires with high flotation tires.

## Work Area Safety

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 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, air-filled tires are properly inflated and lug nuts are properly tightened.

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

### **⚠ Operation on Slopes Hazards**

Do not drive the machine on a slope that exceeds the maximum uphill, downhill or side slope rating of the machine. Slope rating applies only to machines in the stowed position.

#### **Maximum slope rating, stowed position, 2WD**

Platform downhill	30% (17°)
Platform uphill	15% (9°)
Side slope	25% (14°)

#### **Maximum slope rating, stowed position, 4WD**

Platform downhill	45% (24°)
Platform uphill	30% (17°)
Side slope	25% (14°)

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

## Work Area Safety

### ⚠ Fall Hazards

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



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



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

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



Do not enter or exit the platform unless the machine is in the stowed position and the platform is at ground level.

### ⚠ Collision Hazards



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

Be aware of the boom position and tailswing when hazards when rotating the turntable.



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

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

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



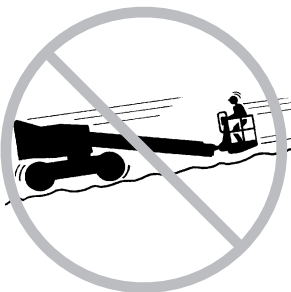
Observe and use the color-coded direction arrows on the platform controls and drive chassis for drive and steer functions.

## Work Area Safety



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

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



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

No stunt driving or horseplay while operating a machine.

### **⚠ Bodily Injury Hazard**

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

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

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

### **⚠ Explosion and Fire Hazards**

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

Do not refuel the machine with the engine running.

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

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

Do not spray ether into engines equipped with glow plugs

### **⚠ Damaged Machine Hazards**

Do not use a damaged or malfunctioning machine.

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

Be sure all maintenance has been performed as specified in this manual and the appropriate Genie service manual.

Be sure all decals are in place and legible.

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

### **⚠ Component Damage Hazards**

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

Do not use the machine as a ground for welding.

## Work Area Safety

### 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.

#### Explosion Hazard



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

#### Electrocution/Burn Hazards

Avoid contact with electrical terminals.

### Welder Safety

Read, understand and obey all warnings and instructions provided with the welding power unit.

Do not connect weld leads or cables unless the welding power unit is turned off at the platform controls.

Do not operate unless the weld cables are properly connected and the welder is properly grounded.

The weight of the welder will reduce the rated platform capacity and must be factored into the total platform load. The welder power supply weighs 75 lbs / 34 kg.

Do not operate the welder unless a fire extinguisher is immediately available for instant use, per OSHA regulation 1926.352(d).

### Weld Line to Platform Safety

Read, understand and obey all warnings and instructions provided with the welding power unit.

Do not connect weld leads or cables unless the welding power unit is turned off at the platform controls.

Do not operate unless the weld cables are properly connected.

Connect the positive lead to the twist-lock connector at the turntable and platform.

Clamp the negative lead to the ground post at the turntable and platform.

## Work Area Safety

### Pipe Cradle Safety

Read, understand and obey all warnings and instructions provided with the pipe cradles.

Do not exceed the rated platform capacity. The pipe cradle assembly and the weight in the pipe cradles will reduce rated platform capacity and must be factored into total platform load.

The pipe cradle assembly weighs 21 lbs / 9.5 kg.

The maximum capacity of the pipe cradle assembly is 200 lbs / 91 kg.

The weight of the pipe cradle assembly and the load in the pipe cradles may limit the maximum number of occupants in platform.

Center the load with the perimeter of the platform.

Secure the load to the platform.

Do not obstruct the entrance or the exit of the platform.

Do not obstruct the ability to operate the platform controls or the red Emergency Stop button.

Do not operate unless you are adequately instructed and are aware of all of the hazards associated with movement of the platform with an overhanging load.

Do not cause a horizontal force or side load to the machine by raising or lowering a fixed or overhanging load.

**Electrocution Hazard:** Keep pipes away from all energized electrical conductors.

### Panel Cradle Safety

Read, understand and obey all warnings and instructions provided with the panel cradles.

Do not exceed the rated platform capacity. The combined weight of the cradles, panels, occupants, tools and any other equipment must not exceed rated capacity.

The panel cradle assembly weighs 30 lbs / 13.6 kg.

The maximum capacity of the panel cradles is 250 lbs / 113 kg.

The weight of the panel cradles and the load in the panel cradles may limit the maximum number of occupants in platform to one person.

Secure the cradles to the platform. Secure the panel(s) to the platform railing using the straps provided.

Do not operate unless you are adequately instructed and are aware of all hazards associated with lifting panels.

Do not cause a horizontal force or side load to machine by raising or lowering a fixed or overhanging load.

Maximum vertical height of panels: 4 ft / 1.2 m

Maximum wind speed: 15 mph / 6.7 m/sec

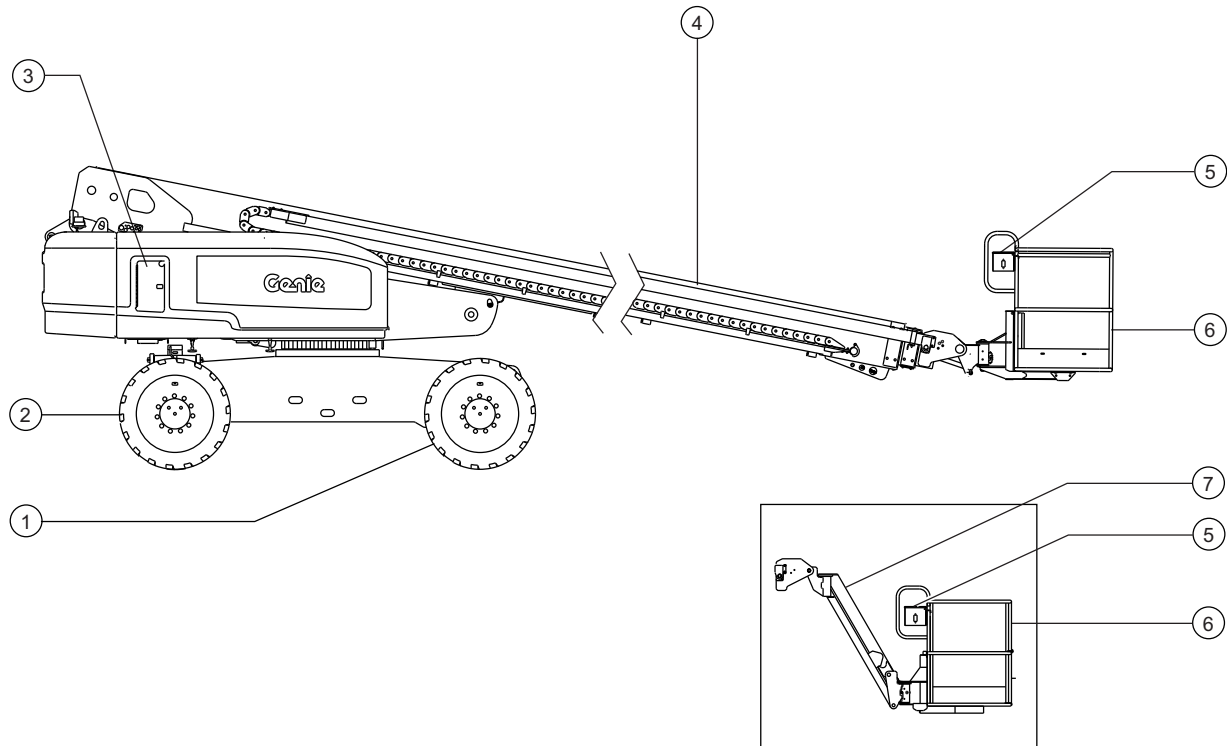
Maximum panel area: 32 sq. ft / 3 m<sup>2</sup>

## Work Area Safety

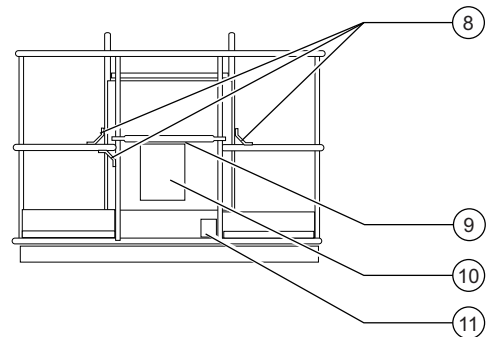
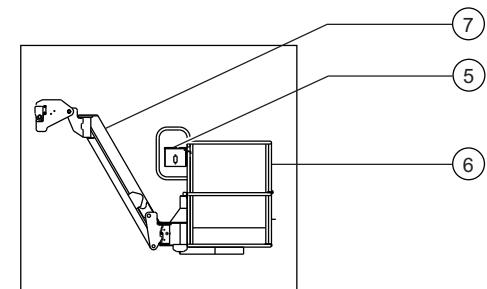
### Lockout After Each Use

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

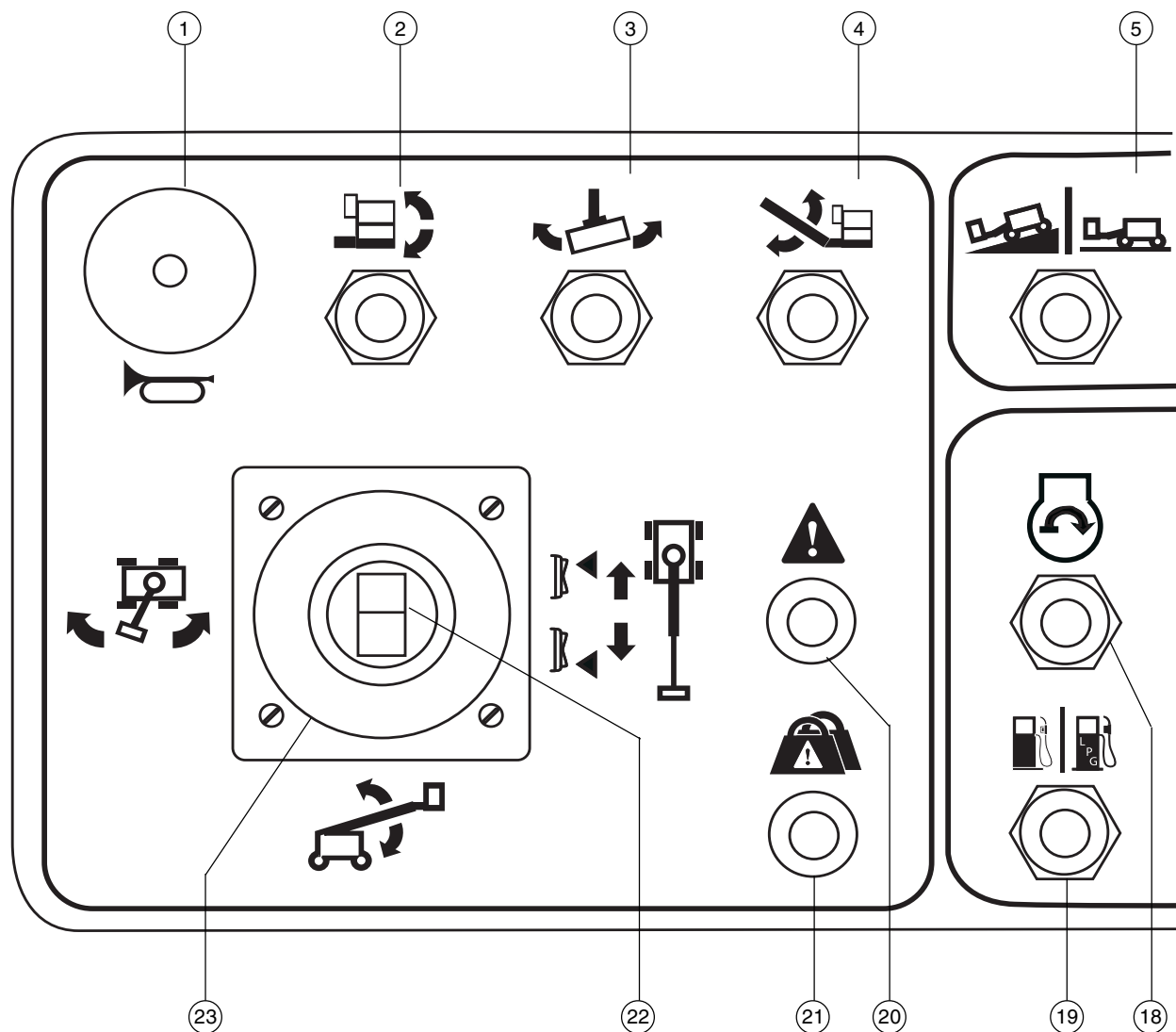
## Legend



- 1 Non- steer tire
- 2 Steer tire
- 3 Ground controls
- 4 Boom
- 5 Platform controls
- 6 Platform
- 7 Jib boom (S-85)
- 8 Lanyard anchorage point
- 9 Sliding mid rail
- 10 Manual storage container
- 11 Foot switch



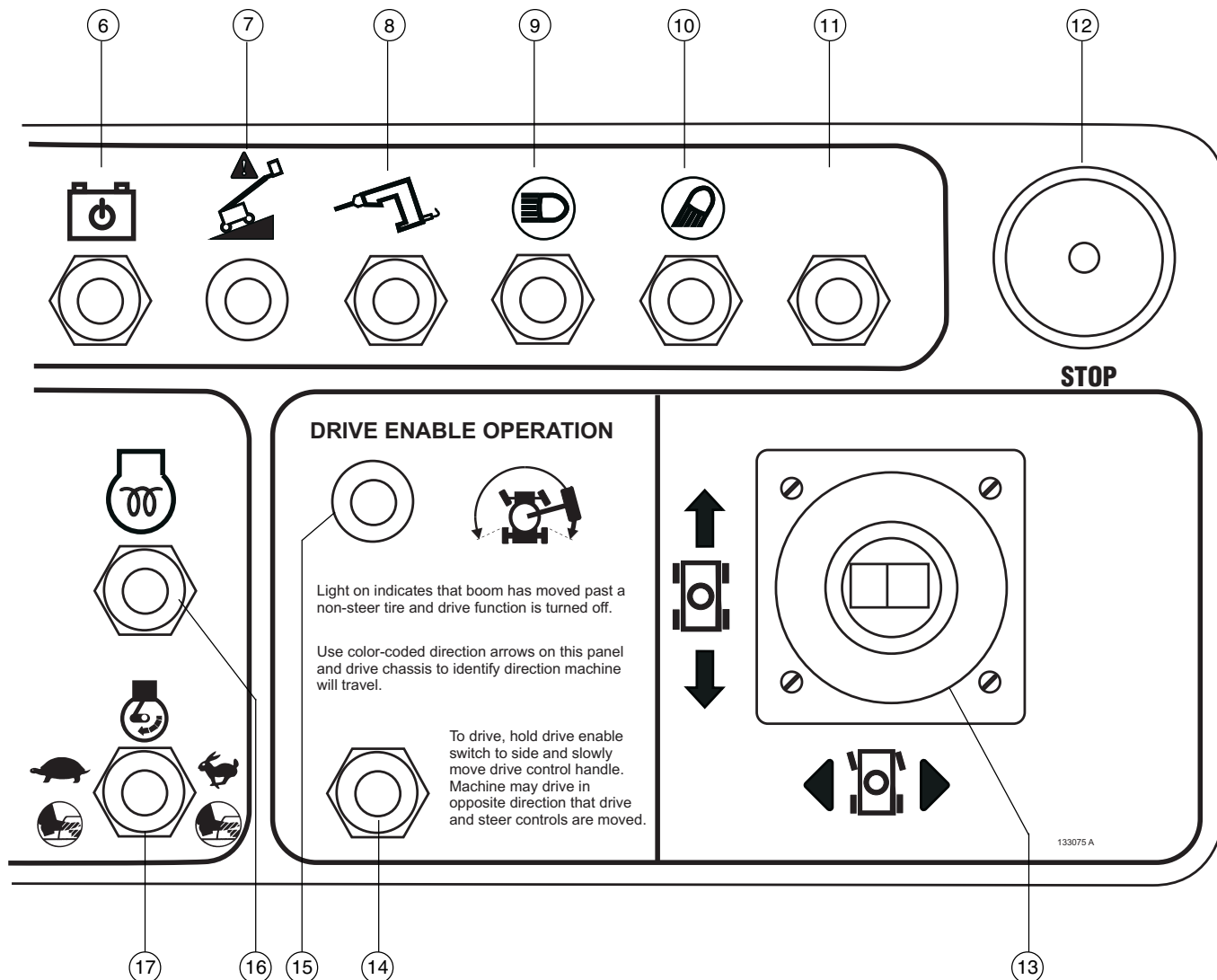
## Controls



### Platform Control Panel

- |   |   |    |   |
|---|---|----|---|
| 1 | Horn button                                     | 8  | Generator switch (if equipped)  |
| 2 | Platform level switch                           | 9  | Drive lights switch (if equipped)   |
| 3 | Platform rotate switch                          | 10 | Working lights switch (if equipped)   |
| 4 | S-85 only: Jib boom up/down switch              | 11 | Optional equipment  |
| 5 | Drive speed select switch                       | 12 | Red Emergency Stop button   |
| 6 | Emergency power switch                          | 13 | Dual axis proportional control handle for drive and steer functions                   |
| 7 | Machine not level indicator light (if equipped) |    | OR Proportional control handle for drive function and thumb rocker for steer function |

## Controls



14 Drive enable switch

15 Drive enable indicator light

16 Glow plug switch (if equipped)

17 Engine idle (rpm) select switch

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

18 Engine start switch

19 Gasoline/LPG models: Gasoline/LPG select switch

20 Machine malfunction indicator light

21 Not used

22 Thumb rocker for boom extend/retract

23 Dual axis proportional control handle for boom up/down and turntable rotate left/right function

## Controls

### Platform Control Panel

1 Horn button

Push the horn button and the horn will sound.  
Release the horn button and the horn will stop.

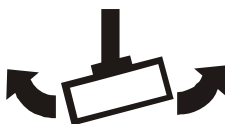
2 Platform level switch

Move the platform level switch up and the level of the platform will raise. Move the platform level switch down and the level of the platform will lower.



3 Platform rotate switch

Move the platform rotate switch to the right and the platform will rotate to the right. Move the platform rotate switch to the left and the platform will rotate to the left.



4 Jib boom up/down switch

Move the jib boom switch up and the jib will raise.  
Move the jib boom switch down and the jib will lower.



5 Drive speed select switch

Machine on incline symbol: Low range operation for inclines.

Machine on level surface symbol: High range operation for maximum drive speed.

6 Emergency power switch

Use emergency power if the primary power source (engine) fails.

Simultaneously hold the emergency power switch up and activate the desired function.

7 Machine not level indicator light (if equipped)

The machine not level indicator light will come on when the tilt alarm sounds.

8 Generator switch (if equipped)

Move the generator switch up to activate the generator. Move the switch down to turn off the generator.

9 Drive lights switch (if equipped)

Move the drive light switch up to activate the drive lights. Move the switch down to turn off the drive lights.

10 Working lights switch (if equipped)

Move the working light switch up to activate the working lights. Move the switch down to turn off the working lights.

## Controls

### 11 Not used

### 12 Red Emergency Stop button

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

### 13 Dual axis proportional control handle for drive and steer functions

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

Move the control handle in the direction indicated by the blue arrow on the control panel and the machine will drive forward. Move the control handle in the direction indicated by the yellow arrow and the machine will drive backwards. Move the control handle in the direction indicated by the blue triangle and the machine will steer to the left. Move the control handle in the direction indicated by the yellow triangle and the machine will steer to the right.  
OR

Move the control handle in the direction indicated by the blue arrow on the control panel and the machine will drive forward. Move the control handle in the direction indicated by the yellow arrow and the machine will drive backwards. Press the left side of the thumb rocker and the machine will steer to the left. Press the right side of the thumb rocker and the machine will steer to the right.

### 14 Drive enable switch

To drive when the drive enable light is on, hold the drive enable switch to either side and slowly move the drive control handle off center. Be aware that the machine may move in the opposite direction that the drive and steer controls are moved.

### 15 Drive enable indicator light

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

### 16 Glow plug switch

Move the glow plug switch to either side and hold for 3 to 5 seconds.

### 17 Engine idle (rpm) select switch

Move the engine idle select switch to the turtle position for foot switch activated low idle. Move the engine idle select switch to the rabbit position for foot switch activated high idle.

### 18 Engine start switch

Move the engine start switch to either side to start the engine.

## Controls

### 19 Gasoline/LPG models: Fuel select switch

Move the fuel select switch to the gasoline position to select gasoline. Move the fuel select switch to the LPG position to select LPG.

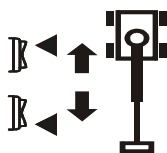
### 20 Machine malfunction indicator light

Light on indicates all functions have stopped. See the instructions in the Operating Instructions section.

### 21 Not used

### 22 Thumb rocker for boom extend/retract

Move the thumb rocker up and the boom will retract. Move the thumb rocker down and the boom will extend.

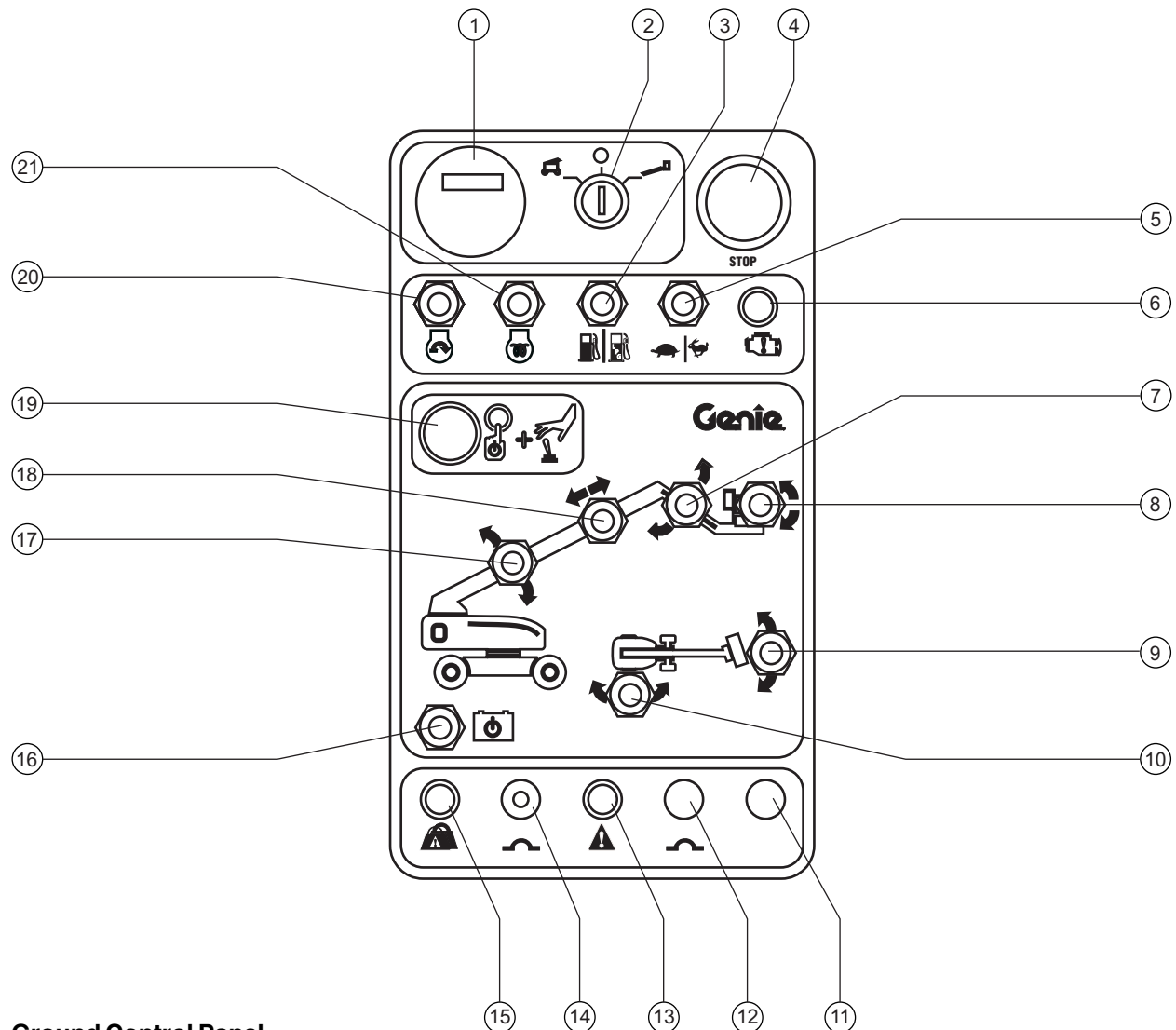


### 23 Dual axis proportional control handle for boom up/down and turntable rotate left/right functions

Move the control handle up and the boom will raise. Move the control handle down and the boom will lower. Move the control handle to the right and the turntable will rotate to the right. Move the control handle to the left and the turntable will rotate to the left.



## Controls



### Ground Control Panel

- |  |   |                                       |
|--|---|---------------------------------------|
| 1 Hour meter   | 8 Platform level switch                   | 16 Emergency power switch             |
| 2 Key switch for ground/off/<br>platform selection   | 9 Platform rotate switch                  | 17 Boom up/down switch                |
| 3 Gasoline/LPG models:<br>Gasoline/LPG select switch | 10 Turntable rotate switch                | 18 Boom extend/retract switch         |
| 4 Red Emergency Stop<br>button                       | 11 Not used                               | 19 Function enable button             |
| 5 Engine idle select switch                          | 12 Not used                               | 20 Engine start switch                |
| 6 Check engine light                                 | 13 Machine malfunction<br>indicator light | 21 Glow plugs switch (if<br>equipped) |
| 7 S-85 only: Jib boom up/<br>down switch             | 14 Controls circuit braker (15A)          |                                       |
|  | 15 Not used                               |                                       |

## Controls

### Ground Control Panel

#### Refer to Ground Control Panel Illustration.

1 Hour meter

The hour meter displays the number of hours the machine has operated.

2 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.

3 Gasoline/LPG models: Fuel select switch

Move the fuel select switch to the gasoline position to select gasoline. Move the fuel select switch to the LPG position to select LPG.

4 Red Emergency Stop button

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

5 Engine idle (rpm) select switch

Move the engine idle select switch to the turtle position for foot switch activated low idle. Move the engine idle select switch to the rabbit position for foot switch activated high idle.

6 Check engine light

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

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

7 Jib boom up/down switch

Move the jib boom switch up and the jib will raise. Move the jib boom switch down and the jib will lower.

8 Platform level switch

Move the platform level switch up and the level of the platform will raise. Move the platform level switch down and the level of the platform will lower.

9 Platform rotate switch

Move the platform rotate switch to the right and the platform will rotate to the right. Move the platform rotate switch to the left and the platform will rotate to the left.

10 Turntable rotate switch

Move the turntable rotate switch to the right and the turntable will rotate to the right. Move the turntable rotate switch to the left and the turntable will rotate to the left.

## Controls

11 Not used

12 Not used

13 Machine malfunction indicator light

Light on indicates all functions have stopped.  
See the instructions in the Operating  
Instructions section.

14 15A breaker for control electrical circuits

15 Not used

16 Emergency power switch

Use emergency power if the primary power  
source (engine) fails.  
Simultaneously hold the emergency power  
switch to either side and activate the desired  
function.

17 Boom up/down switch

Move the boom up/down switch up and the  
boom will raise. Move the boom up/down switch  
down and the boom will lower.

18 Boom extend/retract switch

Move the boom extend/retract switch to the right  
and the boom will extend. Move the boom  
extend/retract switch to the left and the boom  
will retract.

19 Function enable switch

Push and hold the function enable button to  
enable the functions on the ground control panel  
to operate.

20 Engine start switch

Move the engine start switch to either side to  
start the engine.

21 Glow plug switch (if equipped)

Move the glow plug switch to either side and  
hold for 3 to 5 seconds.

## Inspections



### Do Not Operate Unless:

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

1 Avoid hazardous situations.

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

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

- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.

## Pre-operation Inspection Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

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

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

Refer to the list on the next page and check each of the items.

If damage or any unauthorized variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

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

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

## Inspections

### Pre-operation Inspection

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

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

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

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

Check entire machine for:

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

## Inspections



### Do Not Operate Unless:

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

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

**3 Always perform function tests prior to use.**

**Know and understand the function tests before going on to the next section.**

4 Inspect the workplace.

5 Only use the machine as it was intended.

## Function 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.

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

## At the Ground Controls

- 2 Turn the key switch to ground control.

- 3 Pull out the red Emergency Stop button to the on position.

⦿ Result: The beacons (if equipped) should flash.

- 4 Start the engine (see Operating Instructions section).

### Test Emergency Stop

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

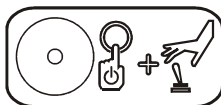
⦿ Result: The engine should turn off and all functions should not operate.

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

## Inspections

### Test the Machine Functions

- 7 Do not push the function enable button. Attempt to activate each boom and platform function toggle switch.

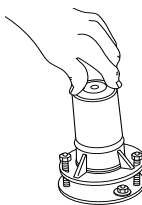


- ⦿ Result: All boom and platform functions should not operate.
- 8 Push and hold the function enable button and activate each boom and platform function toggle switch.
- ⦿ Result: All boom and platform functions should operate through a full cycle. The descent alarm should sound while the boom is lowering.

### Test the Tilt Sensor

- 9 Pull out the platform red Emergency Stop button to the on position. Turn the key switch to platform control.

- 10 Open the tank side turntable cover and locate the tilt sensor on the battery tray.



- 11 Press down one side of the tilt sensor.
- ⦿ Result: The alarm, located in the platform, should sound.

### Test Emergency Controls

- 12 Turn the key switch to ground control and shut the engine off.

- 13 Pull out the red Emergency Stop button to the on position.

- 14 Simultaneously hold the emergency power switch on and activate each boom function toggle switch.



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

- ⦿ Result: All boom functions should operate.

- 15 Turn the key switch to platform control and restart the engine.

## At the Platform Controls

### Test Emergency Stop

- 16 Enter the platform and pull out the red Emergency Stop button. Start the engine.

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

- ⦿ Result: The engine should turn off and all functions should not operate.

- 18 Pull out the red Emergency Stop button and restart the engine.

## Inspections

### Test the Horn

19 Push the horn button.

- ⦿ Result: The horn should sound.

### Test the Foot Switch

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

21 Pull out the red Emergency Stop button to the on position but do not start the engine.

22 Press down the foot switch and attempt to start the engine by moving the start toggle switch to either side.

- ⦿ Result: The engine should not start.

23 Do not press down the foot switch and restart the engine.

24 Do not press down the foot switch and test each machine function.

- ⦿ Result: The machine functions should not operate.

### Test Machine Functions

25 Press down the foot switch.

26 Activate each machine function control handle or toggle switch.

- ⦿ Result: All functions should operate through a full cycle.

### Test the Steering

27 Press down the foot switch.

28 Press the thumb rocker switch on top of the drive control handle in the direction indicated by the blue triangle on the control panel OR slowly move the drive/steer control handle in the direction indicated by the blue triangle.

- ⦿ Result: The steer wheels should turn in the direction that the blue triangles point on the drive chassis.

29 Press the thumb rocker switch in the direction indicated by the yellow triangle on the control panel OR slowly move the drive/steer handle in the direction indicated by the yellow triangle.

- ⦿ Result: The steer wheels should turn in the direction that the yellow triangles point on the drive chassis.

### Test Drive and Braking

30 Press down the foot switch.

31 Slowly move the drive/steer control handle in the direction indicated by the blue arrow on the control panel until the machine begins to move, then return the handle to the center position.

- ⦿ Result: The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.

32 Slowly move the drive/steer control handle in the direction indicated by the yellow arrow on the control panel until the machine begins to move, then return the handle to the center position.

- ⦿ Result: The machine should move in the direction that the yellow arrow points on the drive chassis, then come to an abrupt stop.

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

## Inspections

### Test the Oscillating Axle (if equipped)

33 Start the engine from the platform controls.

34 Drive the right steer tire up onto a 6 inch / 15.2 cm block or curb.

- ⦿ Result: The three remaining tires should stay in firm contact with the ground.

35 Drive the left steer tire up onto a 6 inch / 15.2 cm block or curb.

- ⦿ Result: The three remaining tires should stay in firm contact with the ground.

36 Drive both steer tires up onto a 6 inch / 15.2 cm block or curb.

- ⦿ Result: The non-steer tires should stay in firm contact with the ground.

### Test the Drive Enable System

37 Press down the foot switch and lower the boom to the stowed position.

38 Rotate the turntable until the boom moves past one of the non-steer wheels.

- ⦿ Result: The drive enable indicator light should come on and remain on while the boom is anywhere in the range shown.



39 Move the drive/steer control handle off center.

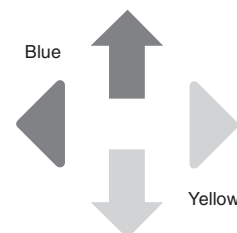
- ⦿ Result: The drive function should not operate.

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

- ⦿ Result: The drive function should operate.

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

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



### Test Limited Drive Speed

41 Press down the foot switch.

42 Raise the boom to just above horizontal.



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

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

44 Lower the boom to the stowed position.

## Inspections

45 Extend the boom 18 inches / 46 cm

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

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

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

### Test Emergency Controls

47 Shut off the engine.

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

49 Press down the foot switch.

50 Simultaneously hold the emergency power switch on and activate each function control handle or toggle switch.

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

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

## Inspections



### Do Not Operate Unless:

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

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

#### 4 Inspect the workplace.

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

- 5 Only use the machine as it was intended.

### Workplace Inspection

Be aware of and avoid the following hazardous situations:

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

## 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.

## Inspections

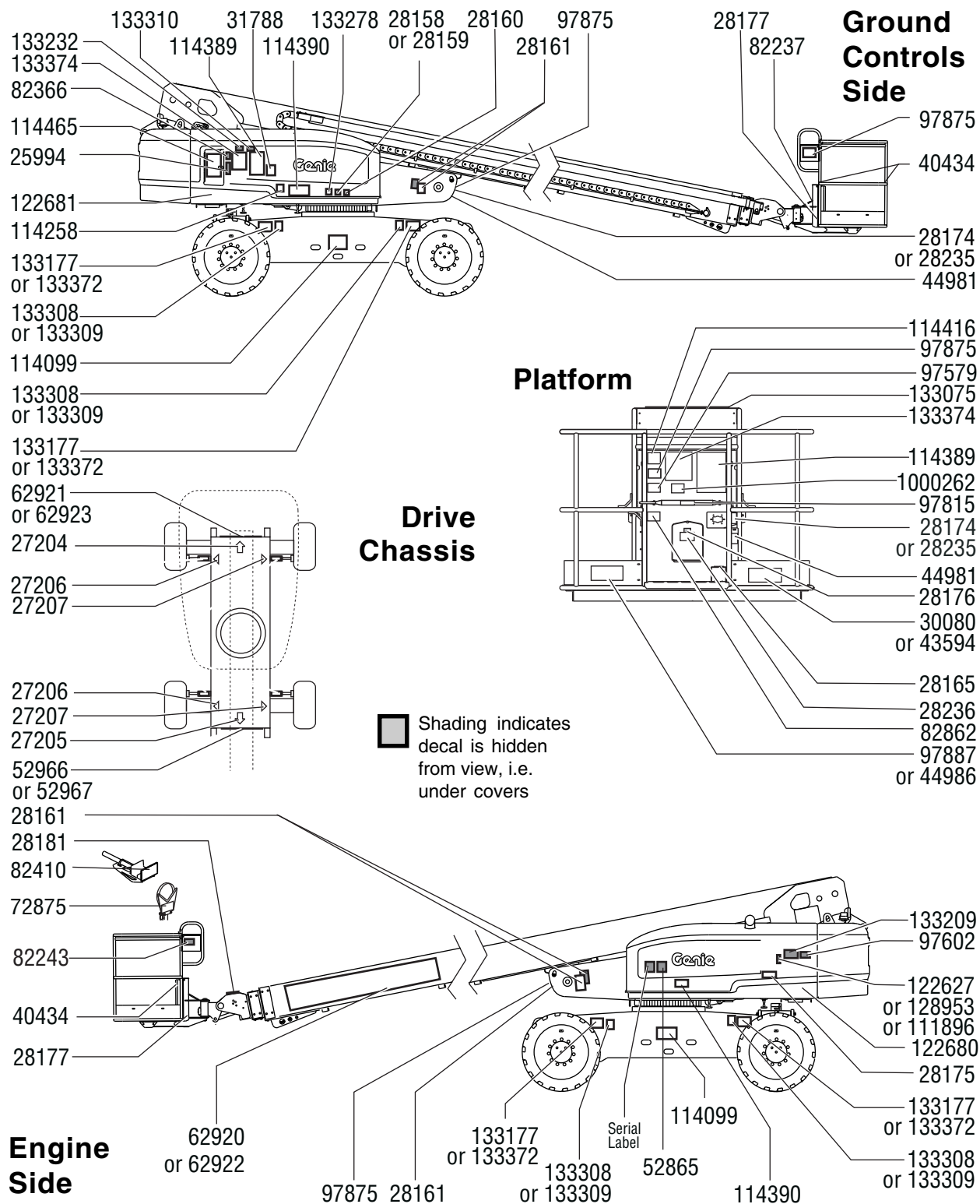
### Inspection for Decals with Words

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

Part No.	Decal Description	Quantity
25994	Notice - Shutoff Valves	1
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle - Blue	2
27207	Triangle - Yellow	2
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas (option)	1
28161	Warning - Crushing Hazard	5
28165	Instructions - Foot Switch	1
28174	Label - Power to Platform, 230V	2
28175	Warning - Compartment Access	1
28176	Label - Missing Manuals	1
28177	Warning - Platform Rotate	2
28181	Warning - No Step or Ride	1
28235	Label - Power to Platform, 115V	2
28236	Warning - Failure To Read...	1
30080	Instructions - Max Load, 500 lbs/227 kg	1
31788	Danger - Explosion/Burn Hazard	1
40434	Label - Lanyard Anchorage	3
43594	Instructions - Max Load, 750 lbs/340 kg (S-80 only)	1
44981	Label - Air Line to Platform (option)	2
44986	Instructions - Max Manual Force, 90 lbs/400N, AUS	1
52865	Warning, Annual Inspection Record	1
52966	Cosmetic - 4 x 2	1
52967	Cosmetic - 4 x 4	1
62920	Cosmetic - Genie S-80	1
62921	Cosmetic - S-80	1
62922	Cosmetic - Genie S-85	1
62923	Cosmetic - S-85	1

Part No.	Decal Description	Quantity
72875	Warning - Pipe Cradle (option)	2
82237	Danger - High Voltage (option)	3
82366	Label - Chevron Rykon	1
82410	Warning - Panel Cradle (option)	2
82862	Danger - Fire Extinguisher, Welder (option)	1
97579	Danger - Tip-over Welder (option)	1
97602	Warning - Explosion Hazard	1
97815	Label - Lower Mid-rail	1
97875	Warning - Weld Line to Platform (option)	2
97887	Instructions - Max Side Force, 150 lbs/667N, ANSI	1
111896	Instructions - Continental Engine Specs	1
114099	Label - Transport Diagram	2
114258	Warning - Explosion Hazard	1
114389	Danger - Safety Rules	2
114390	Danger - Electrocution Hazard	2
114416	Danger - Tip-over Hazard, Tilt Alarm	1
114465	Ground Control Panel	1
122627	Instructions - Perkins Engine Specs	1
122680	Label, Gray Strip, RH	1
122681	Label, Gray Strip, LH	1
128953	Instructions - Deutz Engine Specs	1
133075	Platform Control Panel	1
133177	Danger - Tip-over, Foam-Filled Tires	4
133209	Label - Relay Fuse Panel	1
133278	Label - Low Sulfur Fuel (diesel models)	1
133232	Label - Emergency Power Battery, 12 V	1
133308	Label - Wheel Load, S-80	4
133309	Label - Wheel Load, S-85	4
133310	Label - Engine Start & Controls Battery	1
133372	Danger - Tip-over, High Floatation Tires (option)	4
133374	Instructions - Operating Instructions	2
1000262	Danger - Tip-over, Platform Replacement	1

## Inspections



**Genie**  
A TEREX COMPANY

## Inspections

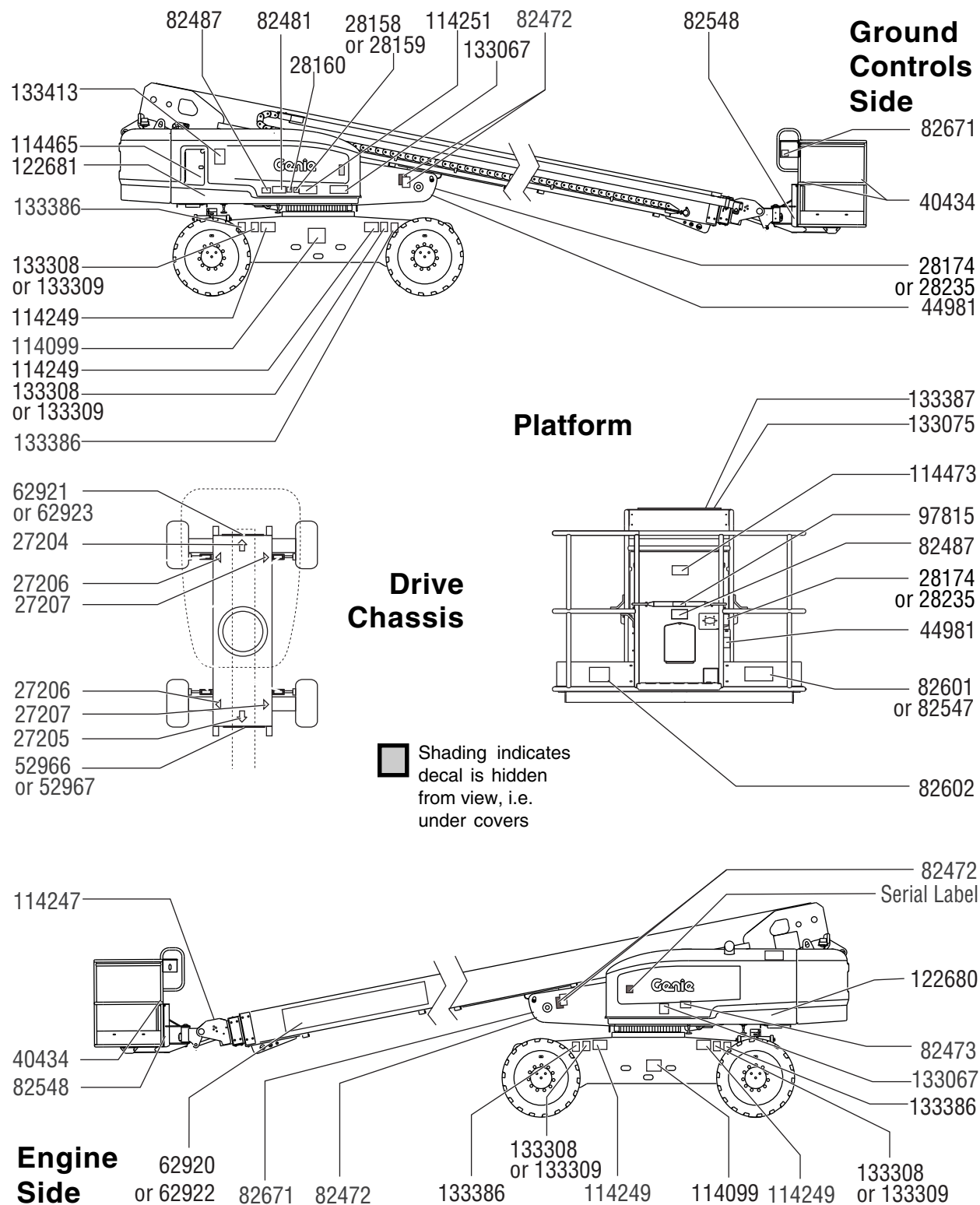
### Inspection for Decals with Symbols

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

Part No.	Decal Description	Quantity
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle- Blue	2
27207	Triangle - Yellow	2
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas (option)	1
28174	Label - Power to Platform, 230V	2
28235	Label - Power to Platform, 115V	2
40434	Label - Lanyard Anchorage	3
44981	Label - Airline to Platform (option)	2
52966	Cosmetic - 4 x 2	1
52967	Cosmetic - 4 x 4	1
62920	Cosmetic - Genie S-80	1
62921	Cosmetic - S-80	2
62922	Cosmetic - Genie S-85	1
62923	Cosmetic - S-85	2
82472	Label - Crushing Hazard	5
82473	Label - Compartment Access	1
82481	Label - Battery	1
82487	Label - Pipe Cradle (option)	2
82487	Label - Panel Cradle (option)	2
82547	Label - Maximum Load, 340 kg (S-80 only)	1

Part No.	Decal Description	Quantity
82548	Label - Platform Rotate	2
82601	Label - Maximum Load, 227 kg	1
82602	Label - Max Manual Force, 667 N, ANSI	1
82671	Label - Weld Line to Platform (option)	2
97815	Label - Lower Mid-rail	1
114099	Label - Transport Diagram	2
114247	Label - Fall Hazard	1
114249	Label - Tire Specification	4
114251	Label - Explosion Hazard	1
114465	Ground Control Panel	1
114473	Label - Tilt Alarm	1
122680	Label, Gray Strip, RH	1
122681	Label, Gray Strip, LH	1
133067	Label - Electrocution Hazard	2
133075	Platform Control Panel	1
133308	Label - Wheel Load, S-80	4
133309	Label - Wheel Load, S-85	4
133386	Label - Tire Pressure High Floatation	4
133387	Label - Drive Enable Patch	1
133413	Label - Emergency Lowering	1

## Inspections



## Operating Instructions



### Do Not Operate Unless:

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

### Fundamentals

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

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

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

## Operating Instructions

### Starting the Engine

- 1 At the ground controls, turn the key switch to the desired position.
- 2 Be sure ground control red Emergency Stop buttons is pulled out to the on position.



#### Gasoline/LPG models

- 3 Choose fuel by moving the fuel select switch to the desired position.
- 4 Move the engine start toggle switch to either side. If the engine fails to start or dies, the restart delay will disable the start switch for 3 seconds.

#### Diesel models

- 3 When starting in cold conditions, move the glow plug switch (if equipped) to either side and hold for 3 to 5 seconds.
- 4 Move the engine start toggle switch to either side. If the engine fails to start or dies, the restart delay will disable the start switch for 3 seconds.

#### All models

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

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

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

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

### Emergency Stop

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

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

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

### Emergency Controls

Use emergency power if the primary power source (engine) fails.

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



The drive function will not operate with emergency power.

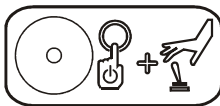
## Operating Instructions

### Operation from Ground

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

#### To Position Platform

- 1 Push and hold the function button.
- 2 Move the appropriate toggle switch according to the markings on the control panel.



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

### Operation from Platform

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

#### To Position Platform

- 1 Press down the foot switch.
- 2 Slowly move the appropriate function control handle or toggle switch according to the markings on the control panel.

#### To Steer

- 1 Press down the foot switch.
- 2 Slowly move the drive/steer control handle in the direction indicated by blue or yellow triangles  
OR press the thumb rocker switch located on top of the drive control handle.

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

#### To Drive

- 1 Press down the foot switch.
- 2 Increase speed: Slowly move the drive/steer control handle off center.  
Decrease speed: Slowly move the drive/steer control handle toward center.  
Stop: Return the drive/steer control handle to center or release the foot switch.

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

Machine travel speed is restricted when the boom is raised or extended.

## Operating Instructions

### Driving on a slope

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



Maximum slope rating,  
platform downhill (gradeability):  
2WD: 30% (17°)  
4WD: 45% (24°)



Maximum slope rating, platform  
uphill:  
2WD: 15% (9°)  
4WD: 30% (17°)



Maximum side slope rating:  
25% (14°)

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

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

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

### To determine the slope grade:

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

You will need:

carpenter's level

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

tape measure

Lay the piece of wood on the slope.

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

While holding the piece of wood level, measure the 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 = 144 inches (3.6 m)

Run = 144 inches (3.6 m)

Rise = 12 inches (0.3 m)

$12 \text{ in} \div 144 \text{ in} = 0.083 \times 100 = 8.3\% \text{ grade}$

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

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.

## Operating Instructions

### Drive Enable

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



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

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

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

### Engine Idle Select (rpm)

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



When the foot switch is not pressed, the engine will idle at the lowest rpm.

- Turtle symbol: Foot switch activated low idle
- Rabbit symbol: Foot switch activated high idle

### Drive Speed Select



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

### Generator (if equipped)

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

The generator will turn on and the engine will continue to run. Pressing down on the foot switch will turn the generator off. Releasing the foot switch will turn the generator back on.

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

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

### Check Engine Light



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

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

## Operating Instructions

### Machine Not Level Indicator Light



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

### Machine Malfunction Indicator Light



Light on indicates all functions have stopped.

- 1 Push in and then pull out the red Emergency Stop button.
- 2 Lower and retract the boom.
- 3 Tag the machine and remove from service. Functions will not operate.

### Stopping the Engine

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

### After Each Use

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

### Aircraft Protection Package (if equipped)

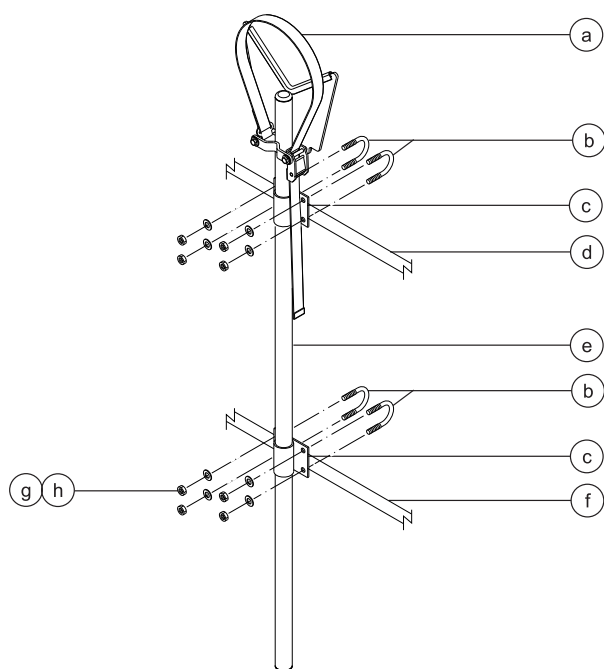
If the platform bumpers come in contact with aircraft components, the machine will shut down and no functions will operate.

Push the function override button to operate the machine.

## Operating Instructions

### Pipe Cradle Instructions

The pipe cradle assembly consists of 2 pipe cradles positioned at either side of the platform and mounted to the guardrails with U-bolts.



- |                          |                           |
|--------------------------|---------------------------|
| a strap                  | e pipe cradle weldment    |
| b U-bolts                | f middle platform railing |
| c pipe cradle mount      | g flat washers            |
| d upper platform railing | h 3/8-inch nylock nuts    |

### Observe and Obey:

- ☒ Pipe cradles must be installed on the inside of the platform.
- ☒ Pipe cradles must not obstruct the platform controls or the platform entrance.
- ☒ The bottom of the pipe cradle tube must rest on the platform floor.
- ☒ Be sure the platform is level before installing a pipe cradle.

### Pipe Cradle Installation

- 1 Install a pipe cradle on each side of the platform. Refer to the illustration on the left. Make sure the bottom of the pipe cradle tube rests on the platform floor.
- 2 Install two U-bolts from the outside of the platform rails through each pipe cradle mount.
- 3 Secure each U-bolt with 2 washers and 2 nuts.

## Operating Instructions

### Pipe Cradle Operation

- 1 Be sure the pipe cradle assembly and installation instructions have been followed properly and that the pipe cradles are secured to the platform railings.
- 2 Place the load so that it rests in both pipe cradles. The length of the load should be parallel with the length of the platform.
- 3 Center the load in the pipe cradles.
- 4 Secure the load to each pipe cradle. Pass the nylon strap over the load. Depress the buckle and slide the strap through. Tighten the strap.
- 5 Gently push and pull on the load to make sure the pipe cradles and load are secure.
- 6 Keep the load secured when the machine is moving.

**⚠ WARNING** Tip-over hazard. The weight of the pipe cradle assembly and the load in the pipe cradles will reduce the rated platform capacity of the machine and must be factored into the total platform load.

**⚠ WARNING** Tip-over hazard. The weight of the pipe cradle assembly and the load in the pipe cradles may limit the maximum number of occupants in the platform.

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#### Maximum Pipe Cradle Capacity

All models	200 lbs 90.7 kg
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Pipe Cradle Assembly Weight	21 lbs 9.5 kg
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## Operating Instructions

### Panel Cradle Assembly

- 1 Apply the warning decal to the front of each panel cradle (if needed).
- 2 Install rubber bumper 1 in the panel cradle base. See the illustration.
- 3 Secure the bumper with 2 high profile lock nuts and 2 washers.

### Panel Cradle Installation

- 1 Insert the hook piece through the slots in the panel cradle base.
- 2 Hook the panel cradle to the bottom platform tube in the desired location.
- 3 Install rubber bumper 2 through the panel cradle base and the hook piece. See the illustration.
- 4 Secure with 2 low profile lock nuts.
- 5 If the panel cradle is installed at a platform floor support tube, insert the U-bolt through the floor, around the tube and into the panel cradle base.
- 6 Secure the U-bolt with 2 nuts and 2 washers. Proceed to step 9.
- 7 If the panel cradle is not installed at a platform floor support tube, use the aluminum tube provided.
- 8 Place the tube between the panel cradle and the platform floor. Insert the U-bolt through the floor, around the tube and into the panel cradle base.
- 9 Repeat above for the second set of parts.

### Installation of Padding

- 1 Install the 2 pieces of padding on the platform rails. Position the padding to protect the panels from contact with the platform rails.

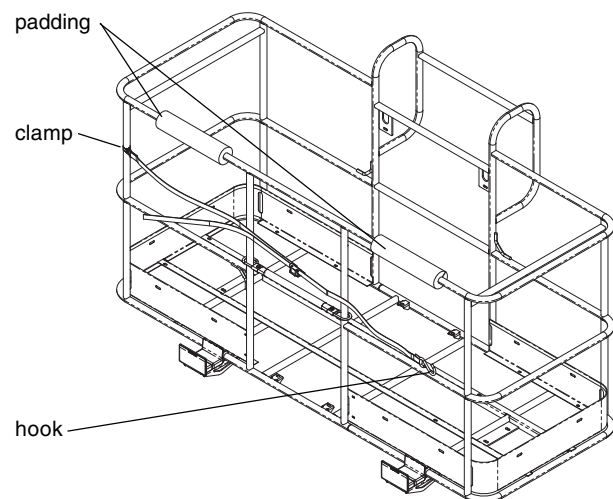
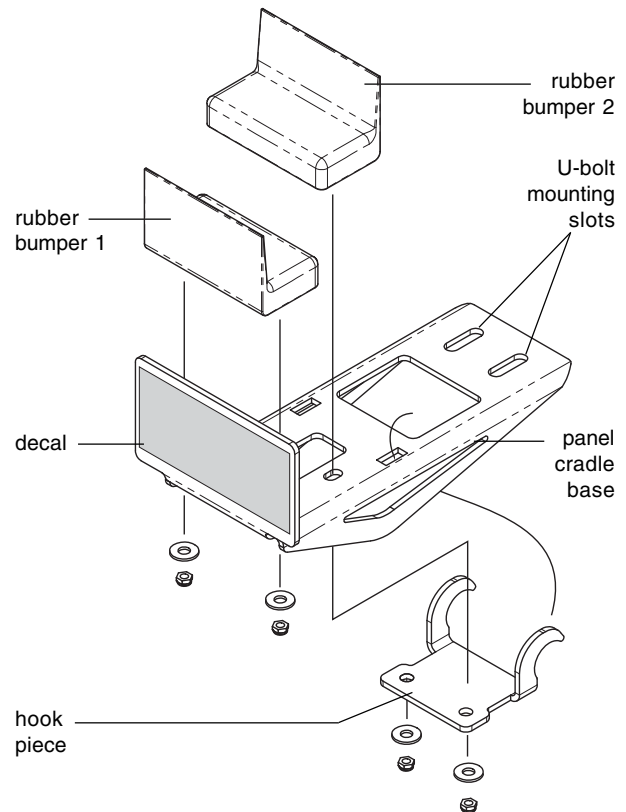
### Installation of Strap

- 1 Open the clamp and install it around a vertical platform rail tube.
- 2 Insert a bolt with a washer through one side of the clamp.
- 3 Install the strap assembly end plate onto the bolt.
- 4 Insert the bolt through the other side of the clamp.
- 5 Secure with a washer and a nut. Do not over-tighten. The strap assembly end plate should be able to slide on the platform rail.

## Operating Instructions

### Panel Cradle Operation

- 1 Secure both panel cradles to the platform.
- 2 Place the load so that it rests in both panel cradles.
- 3 Center the load on the platform.
- 4 Secure the load to the platform using the strap. Tighten the strap.



## Transport and Lifting Instructions



### Observe and Obey:

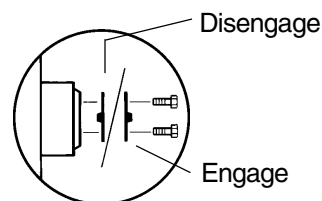
- ☑ Genie Industries provides this securement information as a recommendation. Drivers are solely responsible for making sure machines are properly secured and the correct trailer is selected pursuant to US Department of Transportation regulations, other localized regulations, and their company policy.
  - ☑ Genie customers needing to containerize any lift or Genie product should source a qualified freight forwarder with expertise in preparing, loading and securing construction and lifting equipment for international shipment.
  - ☑ Only qualified aerial lift operators should move the machine on or off the truck.
  - ☑ The transport vehicle must be parked on a level surface.
  - ☑ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
  - ☑ Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. Genie lifts are very heavy relative to their size. See the serial label for the machine weight. See the Decals section for the serial label location.
  - ☑ Be sure the turntable is secured with the turntable rotation lock before transporting. Be sure to unlock the turntable for operation.
- ☑ 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 uphill or downhill maximum slope rating, the machine must be loaded and unloaded using a winch as described. See the Specifications section for the slope ratings.

### Free-wheel Configuration for Winching

Chock the wheels to prevent the machine from rolling.

2WD models: Release the non-steer wheel brakes by turning over the drive hub disconnect caps.

4WD models: Release the wheel brakes by turning over all four drive hub disconnect caps.



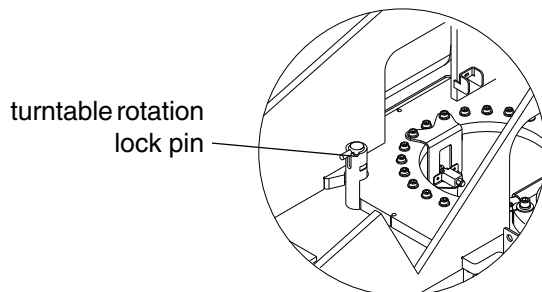
Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.

Reverse the procedures described to re-engage the brakes.

## Transport and Lifting Instructions

### ⚠ Securing to Truck or Trailer for Transit

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



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

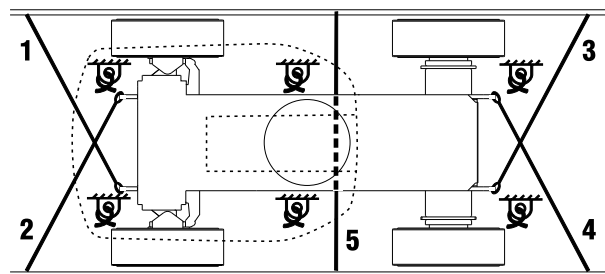
Inspect the entire machine for loose or unsecured items.

### Securing the Chassis

Use chains of ample load capacity.

Use a minimum of 5 chains.

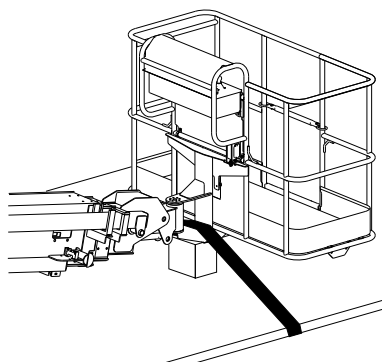
Adjust the rigging to prevent damage to the chains.



### Securing the Platform - S-80

Place a block under the platform rotator. Do not allow the block to contact the platform cylinder.

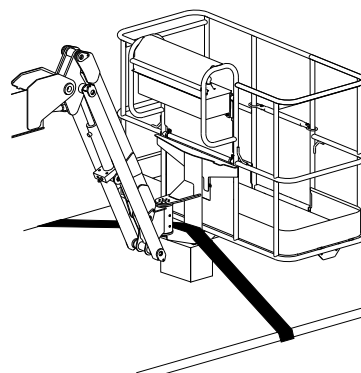
Secure the platform with a nylon strap placed through the lower platform support. Do not use excessive downward force when securing the boom section.



### Securing the Platform - S-85

Place a block under the platform rotator. Do not allow the block to contact the platform cylinder.

Secure the platform with a nylon strap placed through the lower platform support. Do not use excessive downward force when securing the boom section.



## Transport and Lifting Instructions



### Observe and Obey:

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

### Lifting Instructions

Fully lower and retract the boom. Move the jib boom parallel with the ground. Remove all loose items on the machine.

Use the turntable rotation lock to secure the turntable.

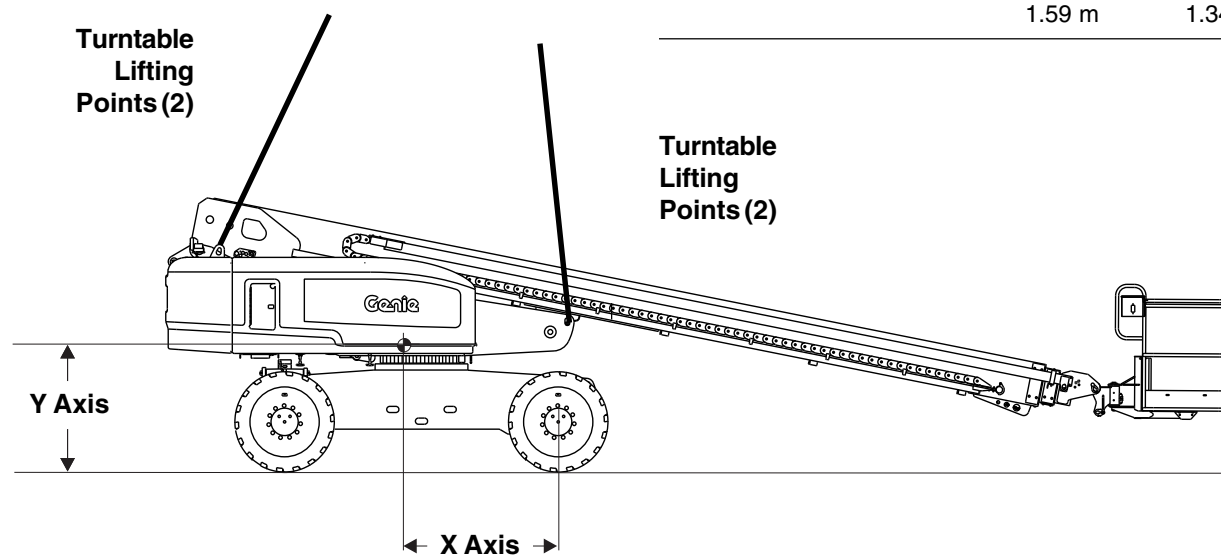
Determine the center of gravity of your machine using the table and the picture on this page.

Attach the rigging only to the designated lifting points on the machine. All four of the lifting points are on the turntable.

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

### Center of Gravity Location

	X Axis	Y Axis
<b>S-80</b> with 500 lbs / 227 kg capacity	61.30 in 1.56 m	52.12 in 1.32 m
<b>S-80</b> with 750 lbs / 340 kg capacity	63.60 in 1.62 m	50.60 in 1.29 m
<b>S-85</b>	62.54 in 1.59 m	52.73 in 1.34 m



## Maintenance



### Observe and Obey:

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

### Maintenance Symbols Legend

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



Indicates that tools will be required to perform this procedure.



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



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

## Check the Engine Oil Level



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

Note: Check the oil level with the engine off.

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

### Perkins 404-22 Engine

Oil type	15W-40
Oil type - cold conditions	5W-40

### Continental TME27 Engine

Oil type	15W-40
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### Deutz F3L 2011F Engine

Oil type	15W-40
Oil type - cold conditions	5W-30

## Maintenance

### Check the Hydraulic Oil Level



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

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

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#### Hydraulic oil specifications

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Hydraulic oil type	Chevron Rykon Premium MV equivalent
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### Check the Engine Coolant Level - Liquid Cooled Models



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

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

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

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

Note: Do not remove the radiator cap.

## Maintenance

### Check the Batteries



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

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

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

- 1 Put on protective clothing and eye wear.
- 2 Be sure that the battery cable connections are tight and free of corrosion.
- 3 Be sure that the battery hold-down brackets are in place and secure.

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

### Check the Tire Pressure



Note: This procedure does not need to be performed on machines equipped with foam-filled tires.

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

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

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

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

<b>High flotation tire pressure</b>	70 psi	4.8 bar
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### Scheduled Maintenance

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

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

## Specifications

Model	S-80	
Height, working maximum	86 ft	26.2 m
Height, platform maximum	80 ft	24.4 m
Height, stowed maximum	9 ft 2 in	2.8 m
Horizontal reach maximum	71 ft 6 in	21.8 m
Width, foam filled tires	8 ft 2 in	2.5 m
Width, high floatation tires	8 ft 6 in	2.6 m
Length, stowed	36 ft 6 in	11.1 m
Maximum load capacity	500 lbs	227 kg
Maximum load capacity with proper counterweight configuration	750 lbs	340 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	9 ft 4 in	2.8 m
Turning radius (outside)	21 ft 6 in	6.6 m
Turning radius (inside)	12 ft	3.7 m
Turntable tailswing	4 ft 8 in	1.4 m
Turntable rotation (degrees)	continuous	
Controls	12V DC proportional	
Platform dimensions, 6 foot (length x width)	72 in x 30 in	1.8 m x 76 cm
Platform dimensions, 8 foot (length x width)	96 in x 36 in	2.4 m x 91 cm
Platform leveling	self-leveling	
Platform rotation	160°	
AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	2900 psi	200 bar

System voltage	12V	
Tire size	18-625, 16 plyFF	
High flotation tire size	41/18LL x 22.5, 14 ply	
Ground clearance	13 in	33 cm
Fuel tank capacity-Diesel	35 gallons	132 liters
Fuel tank capacity-Gas	30 gallons	113.6 liters
Weight	35,500 lbs / 16,103 kg (Machine weights vary with option configurations)	
Airborne noise emissions	106 dB	
Maximum sound level at normal operating workstations (A-weighted)		

### Drive speeds

Drive speed, stowed	3.3 mph 40 ft/8.2 sec	5.4 km/h 12.2 m/8.2 sec
Drive speed, raised or extended	0.68 mph 40 ft/40 sec	1.1 km/h 12.2 m/40 sec

### Maximum slope rating, stowed position, 2WD

Platform uphill	30% (17°)
Platform downhill	15% (9°)
Side slope	25% (14°)

### Maximum slope rating, stowed position, 4WD

Platform uphill	45% (24°)
Platform downhill	30% (17°)
Side slope	25% (14°)

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

### Floor Loading Information

Tire load, maximum	15,901 lbs	7210 kg
Tire contact pressure	100 psi	7.03 kg/cm <sup>2</sup> 690 kPa
Occupied floor pressure	340 psf	1600 kg/m <sup>2</sup> 16.3 kPa

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

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



## Specifications

Model		S-85
Height, working maximum	91 ft	27.7 m
Height, platform maximum	85 ft	25.9 m
Height, stowed maximum	9 ft 2 in	2.8 m
Horizontal reach maximum	76 ft 6 in	23.3 m
Width, foam filled tires	8 ft 2 in	2.5 m
Width, high floatation tires	8 ft 6 in	2.6 m
Length, stowed	40 ft 0 in	12.2 m
Maximum load capacity	500 lbs	227 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	9 ft 4 in	2.8 m
Turning radius (outside)	21 ft 6 in	6.6 m
Turning radius (inside)	12 ft	3.7 m
Turntable tailswing	4 ft 8 in	1.4 m
Turntable rotation (degrees)	continuous	
Controls	12V DC proportional	
Platform dimensions, 6 foot (length x width)	72 in x 30 in 1.8 m x 76 cm	
Platform dimensions, 8 foot (length x width)	96 in x 36 in 2.4 m x 91 cm	
Platform leveling	self-leveling	
Platform rotation	160°	
AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	2900 psi	200 bar
System voltage	12V	

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Tire size	18-625, 16 plyFF	
High flotation tire size	41/18LL x 22.5, 14 ply	
Ground clearance	13 in	33 cm
Fuel tank capacity-Diesel	35 gallons	132 liters
Fuel tank capacity-Gas	30 gallons	113.6 liters
Weight (Machine weights vary with option configurations)	38,000 lbs / 17,237 kg	
Airborne noise emissions	106 dB	
Maximum sound level at normal operating workstations (A-weighted)		

### Drive speeds

Drive speed, stowed	3.3 mph 40 ft/8.2 sec	5.4 km/h 12.2 m/8.2 sec
Drive speed, raised or extended	0.68 mph 40 ft/40 sec	1.1 km/h 12 m/44 sec

### Maximum slope rating, stowed position, 2WD

Platform uphill	30% (17°)
Platform downhill	15% (9°)
Side slope	25% (14°)

### Maximum slope rating, stowed position, 4WD

Platform uphill	45% (24°)
Platform downhill	30% (17°)
Side slope	25% (14°)

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

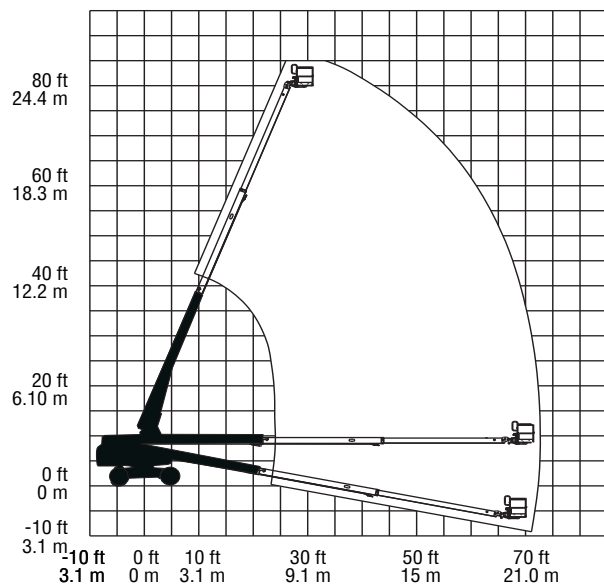
### Floor Loading Information

Tire load, maximum	17,558 lbs	7961 kg
Tire contact pressure	100 psi	7.03 kg/cm <sup>2</sup> 690 kPa
Occupied floor pressure	365 psf	1782 kg/m <sup>2</sup> 17.5 kPa

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

## Specifications

### S-80 Range of Motion



### S-85 Range of Motion

