



# ***Operator's Manual Supplement***

## ***Lift Guard™ Sensor for Booms***

**S<sup>®</sup>-40**

from S4015-20505

**S<sup>®</sup>-45**

**S<sup>®</sup>-60**

From S6012-24492

**S<sup>®</sup>-65**

First Edition  
First Printing  
Part No. 1294064GT

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## Introduction

### Lift Guard™ Sensor for Booms

The Lift Guard Sensor system is designed to alert the operator and occupants before the platform makes contact with an object from behind or above. The operator will be warned by light and joystick vibration when in close proximity to the object and boom movement will be interrupted before contact.

The system is designed to be unobtrusive, with sensors mounted at the rear of the platform hand rail. When the platform moves near an object that is sensed the platform controls will indicate with a warning light and vibration feedback. Some machine functions will operate at reduced speed. If the platform continues toward the object, the frequency of the light will increase until the boom movement is halted by the system. The operator has the option to acknowledge by pushing a button on the platform control box and continue moving toward the object at a reduced speed.



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### Danger

Failure to obey the instructions and safety rules in this manual and in the operator's manual for this machine will result in death or serious injury.

Note: These installation instructions apply to the Genie models listed below:

**S-Booms:** S®-40, S®-45, S®-60, S®-65

## Introduction

### ▲ Lift Guard™ Sensor for Booms Safety

Read, understand and obey all warnings and instructions provided with the Lift Guard Sensor.

Do not exceed the rated platform capacity. The weight of the Lift Guard Sensor assembly will reduce the rated platform capacity and must be subtracted from the total platform load.

The Lift Guard Sensor for Booms assembly weighs 28.8 lbs/13.1 kg.

Verify the Lift Guard Sensor is securely installed.

### Symbol and Hazard Pictorials Definitions



Lift Guard Sensor for Booms weight.  
28.8 lbs/13.1 kg.



Read the supplement manual, part number, 1294064.



Lift Guard Sensor LED

### Pre-operation Inspection

- Be sure that the operator's manual, safety manual, responsibilities manual and any necessary supplements are complete, legible and in the storage container located in the platform.
- Be sure that all decals are legible and in place.

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

- Nuts, bolts and other fasteners
- Electrical components, wiring, and electrical cables

Check entire machine for:

- Cracks in welds or structural components
- Dents or damage to machine
- Excessive rust, corrosion or oxidation
- Damage or debris on sensors

# Introduction

## Function Test

The system provides a visible and physical indication of objects behind or above the platform, when they are within the detection range of the sensor.

Be sure that there are no personnel and obstacles in proximity to the platform which the sensor may detect on startup.

### Initial Startup:

Note: The keyswitch should be set to the platform control position from ground control.

- 1 Pull out the red Emergency stop button to the on position at the platform controls.

- ⦿ Result: The Lift Guard Sensor LED will flash and platform control box will vibrate for 2-3 seconds.

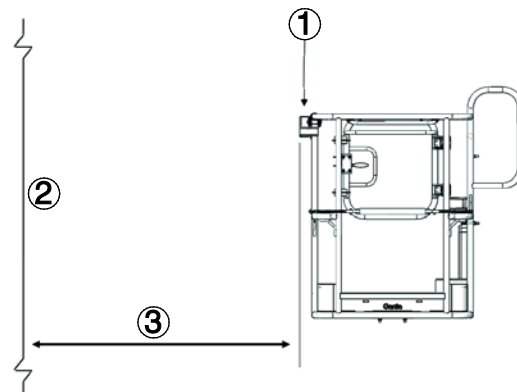


### Object Behind Test:

- 1 Start the engine from the platform controls.

Note: If the Lift Guard Sensor LED and platform control box vibration are activated without pressing on the footswitch, the machine must be tagged and removed from service.

- 2 Locate a large object that the sensor will detect, such as a wall, and position the platform greater than 6ft/1.8m in front of the object.



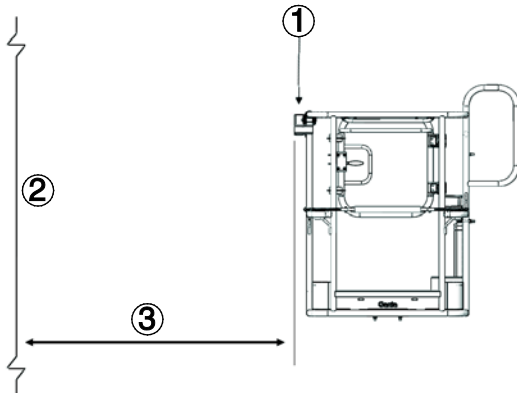
- 1 Sensors
- 2 Wall
- 3 Distance > 6 ft

- 3 Press and hold the foot switch.

- ⦿ Result: The Lift Guard Sensor LED will not flash and platform control box will not vibrate. All functions will operate at normal speed.

# Introduction

- 4 Extend the boom towards the object so that the sensors are between 6 ft/1.8 m and 1 ft/0.3 m of the object.

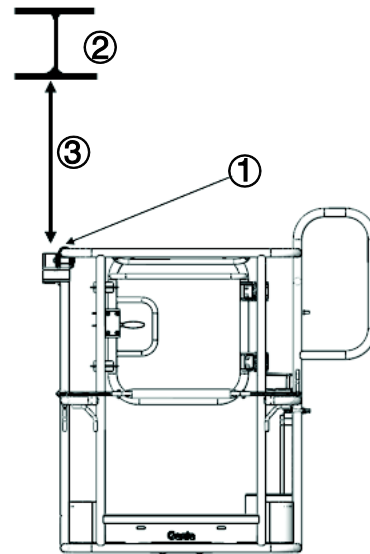


- 1 Sensors
- 2 Wall
- 3 1 ft < Distance < 6 ft

- 5 Press and hold the foot switch.
- ⊙ Result: The Lift Guard Sensor LED will flash yellow light and platform control box will pulse vibration. Some functions will operate at reduced speed.
- 6 Retract the boom away from the object until the distance is greater than 6 feet.

## Object Overhead Test:

- 1 Locate a large item above the platform, such as an I-beam, and position the platform greater than 6 ft/1.8 m below the object.
- 2 Press and hold the foot switch.
- ⊙ Result: The Lift Guard Sensor LED will not flash and platform control box will not vibrate. All functions will operate at normal speed.
- 3 Raise the platform so that the sensor is within 3 ft/0.9 m of an overhead object.

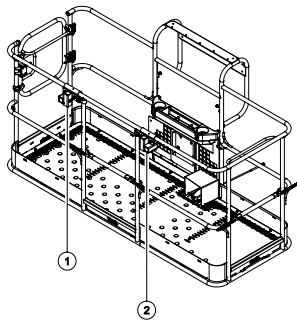


- 1 Sensors
- 2 Overhead I-Beam
- 3 Distance < 3 ft

- 4 Press and hold the foot switch.
- ⊙ Result: The Lift Guard Sensor LED will show a red light on and platform control box will vibrate. Machine functions will stop.

## Introduction

- 5 Activate Lift Guard Sensor toggle switch on the platform control box next to the LED button.
  - ⦿ Result: The Lift Guard Sensor LED will flash yellow light. Some functions will operate at reduced speed.
- 6 Release the foot switch.
  - ⦿ Result: The Lift Guard Sensor LED will not flash and platform control box will not vibrate.



- 1 Lift Guard Sensor, left
- 2 Lift Guard Sensor, right

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# Operating Instructions

## Operating Instructions

Note: The system is designed to supplement other safety practices and systems such as a signal person, and is not intended to be used as the sole method of collision avoidance. It should be used in conjunction with established safety programs to augment the safe operation of the machine.

There are three detection zones for the sensing system: Non-reporting, Slow and Stop.

In the non-reporting zone the Lift Guard Sensor LED will not flash, no joystick vibrations and speeds are normal.

In the slow zone, an object is detected between 3 ft/0.91 m and 6 ft/1.83 m of the sensors while pointed upwards and 1 ft/0.31 m and 6 ft/1.83 m of the sensors while pointed backwards. The Lift Guard Sensor LED will flash yellow and joystick will vibrate in increasing frequency as the detection gets closer, boom speeds will be limited to 50%.

The stop zone occurs when detection is within 3 ft/0.91 m of the sensors pointed up and 1 ft/0.31 m of the sensors pointed back. Lift Guard Sensor LED will turn red and the joystick will vibrate. The stop zone can be overridden back to slow zone with the Lift Guard Sensor toggle switch located on the platform box lid.

California Proposition 65



Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel).

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

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