Genie
A TEREX BRAND

Operator's Manual Supplement

Lift Guard™ Zone Lighting

GS™-2632
GS™-3232

from GS32D-25101
from GS32T-10001

ANSI/CSA
- North America
- South America
- Asia

AUS
- Australia

CE
UK
CA

Original Instructions
First Edition
Second Printing
Part No. 1400751GT

Important

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

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“GS” is a trademark of Terex South Dakota, Inc.

This accessory complies with
ANSI/SAIA A92.20
CAN/CSA B.354.6

AUS 1418.10

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

UKCA Supply of Machinery (Safety) Regulations 2008

Introduction



Danger

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

Note:

The Lift Guard Zone Lighting complies with the requirements of ANSI, CSA, AUS, CE and UKCA markets. All other markets are prohibited from use.

The Lift Guard Zone Lighting for Mobile Elevating Work Platforms (MEWPs) can only be used on the Genie approved models. Use on all other platforms is prohibited.

Intended Use

The Genie Lift Guard™ Zone Lighting is designed to increase awareness around the Mobile Elevating Work Platforms (MEWPs) by creating a visible 'working zone' around the machine.

The zone lights project a beam on the ground 3 feet / 91.4 cm from all four sides of the machine to alert the personnel walking around the machine.

Introduction

Symbol and Hazard Pictorials Definitions



Read the supplement, part number 1400751GT

Tools Required

Impact gun

3/8 inch wrench or Ratchet

7/16 inch wrench

9/16 inch wrench

3/8 inch socket

7/16 inch socket

7 mm drill bit

Pliers

Cable ties

Installation Instructions



Observe and Obey:

- ☑ This procedure shall be completed by a person authorized to install the Lift Guard Zone Lighting.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.

Before Starting Installation

- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate Genie Operator's Manual and Supplements.
- ☑ Be sure that all necessary tools and parts are available and ready for use.
- ☑ Read this procedure completely and adhere to the instructions.

Contents of Kit 1400753GT

Description	Genie part number	Qty.
(1) Harness, lift guard zone lighting	1337499GT	1
(2) Zone light, laser, 24V, 58"	1337613GT	3
(3) Zone light, laser, 24V, 103"	1337614GT	1
(4) Driver, zone light, 24V	1337615GT	4
(5) Bracket, zone light, side	1338146GT	2
(6) Bracket, zone light, cover	1338499GT	2
(7) Bracket, zone light, front	1338565GT	1
(8) Bracket, zone light, rear	1338556GT	1
(9) Bracket, zone light, driver mount	1338563GT	1
(10) Bracket, zone light, cable guide	1338341GT	2
(11) Screw, HHF, 1/4-20x.75, 8, ZAG	824078GT	2
(12) Screw, HHF, 1/4-20x1, 8, ZAG	824079GT	4
(13) Nylock flange nut, 1/4-20, F, ZAG	1277924GT	18
(14) Screw, HHF, 1/4-20x.625, 8, ZAG	1256855GT	12
(15) Screw, HHF, 3/8-16x1.25, 8, ZAG	824091GT	1
(16) Nylock flange nut, 3/8-16, F, ZAG	1274322GT	1
(17) Cable tie,	28443GT	34
(18) Bolt, Carriage, 3/8-16X1,75, 5, ZAG	1268766GT	2
(19) Decal, Danger Do Not Alter Switch	31060GT	1
(20) Decal, Symbol Tip Over Limit Switch	114337GT	1
(21) Cover, Angle Sensor	1400748GT	1
(22) Manual, Supplement	1400751GT	1

Installation Instructions

Lift Guard Zone Lighting Installation

Note: Perform this procedure with the machine on a firm, level surface that is free of obstructions.

⚠WARNING Do not install the Lift Guard Zone Lighting on any Genie product other than the approved models.

⚠WARNING Zone lights should only be mounted on the designated locations on the chassis.

1 Turn the key switch to ground control and pull out the red Emergency Stop button to the on position.

2 Press and hold the lift function enable button, and press the platform up button.

Note: Lift the platform until the safety chock supports it. Chock the wheels to prevent the machine from rolling.

3 Turn the key switch to the off position and push in the red Emergency Stop button to the off position at the ground controls.

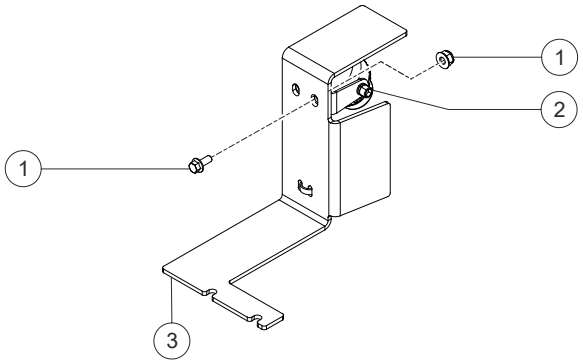
4 Open the battery compartment and disconnect the battery pack from the machine.

⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

Front Side Zone Light Installation

5 Install and secure a zone light to the front bracket using the retaining fasteners.

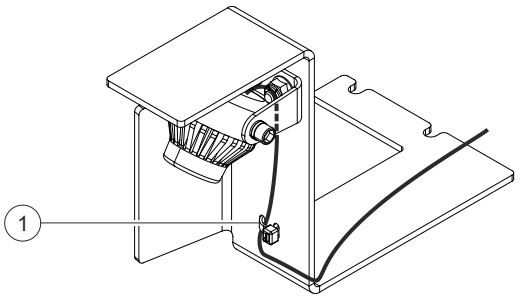
Genie part numbers 1337613GT, 1256855GT, 1277924GT, 1338565GT



1 retaining fasteners
2 zone light
3 front bracket

6 Route the zone light cable along the front bracket. Secure the cable using the provided cable ties.

Genie part number 28443GT



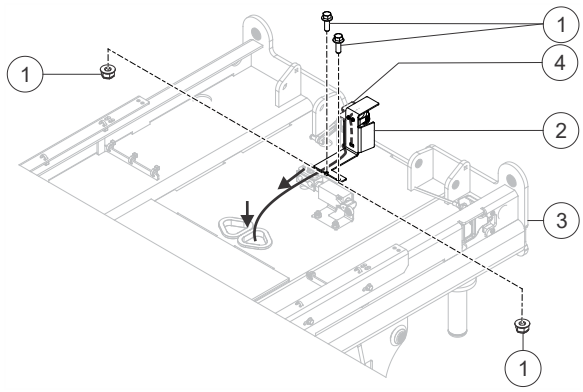
1 cable ties

Installation Instructions

7 Install and secure the front side bracket assembly to the chassis using the retaining fasteners. Replace the angle sensor cover using the retaining fasteners.

Genie part numbers 824078GT, 1277924GT, 1400748GT, 31060GT, 114337GT

Note: If the front side bracket covers the existing decals when installed, replace the decals with the provided decals supplied in the kit.



1 retaining fasteners
2 front bracket assembly
3 chassis
4 Cover, Angle Sensor

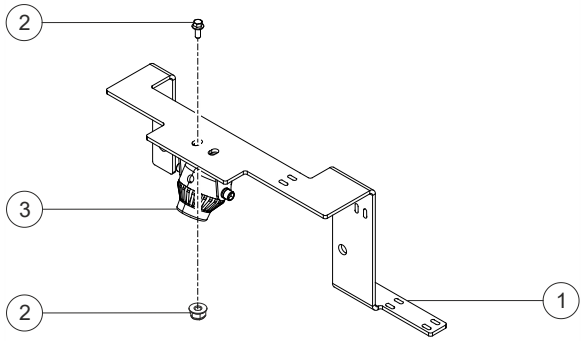
8 Route the zone light cable along the front bracket and then down through an existing hole on the chassis to rear end of the machine. Secure the cable using the provided cable ties.

Genie part number 28443GT

Rear Side Zone Light Installation

9 Install and secure a zone light to the rear bracket using the retaining fasteners.

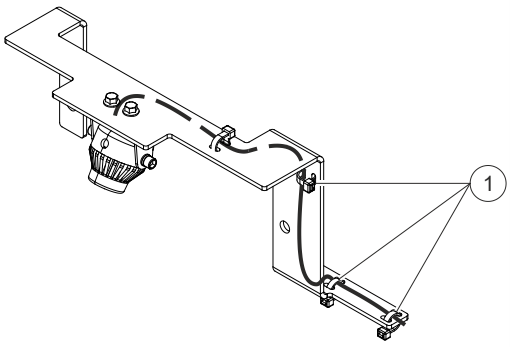
Genie part numbers 1256855GT, 1277924GT, 1337614GT, 1338556GT



1 rear bracket
2 retaining fasteners
3 zone light

10 Route the zone light cable along the rear bracket. Secure the cable using the provided cable ties.

Genie part number 28443GT



1 cable ties

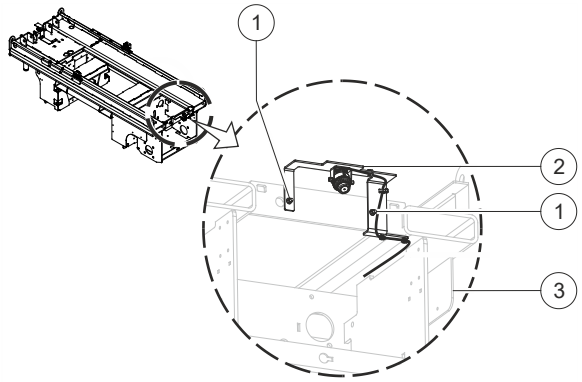
Installation Instructions

11 Install and secure the rear side bracket assembly to the chassis using an existing retaining fasteners.

Torque = 68 ft-lbs / 92 Nm

Genie part number 1268766GT

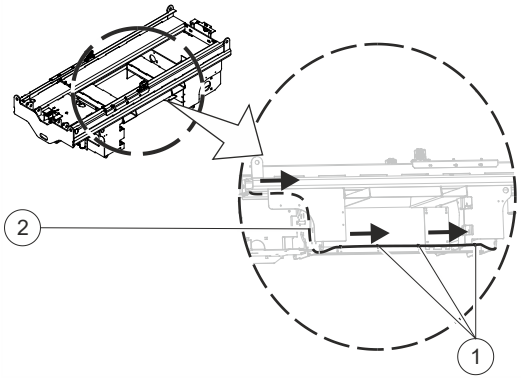
Note: If the existing retaining fasteners are to short, replace the fasteners with the provided fasteners supplied in the kit.



1 retaining fasteners
2 rear bracket assembly
3 chassis

12 Route the zone light cable along the rear bracket and then down through an existing hole on the chassis and then route it to the front of the machine along the existing harness routing. Secure the cable using the provided cable ties.

Genie part number 28443GT



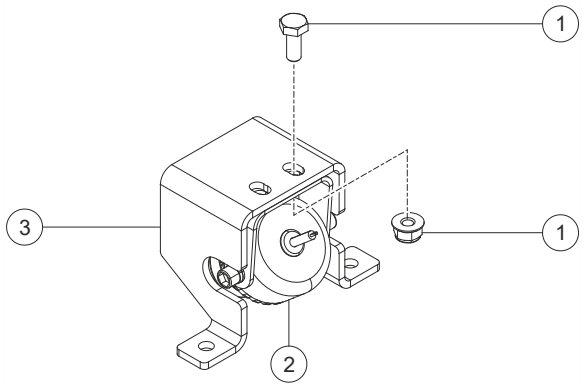
1 cable ties
2 zone light cable

Installation Instructions

Right Side Zone Light Installation

13 Install and secure a zone light to the cover bracket using the retaining fasteners.

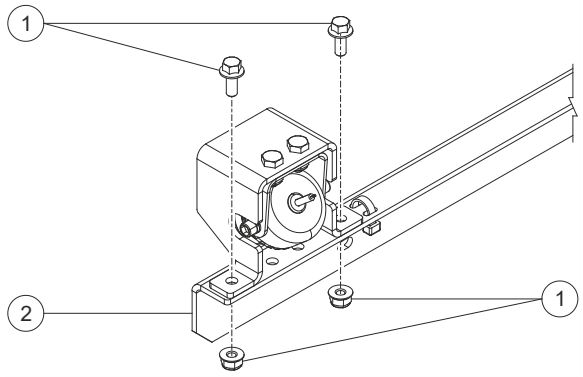
Genie part numbers 1256855GT, 1277924GT, 1337613GT, 1338499GT



1 retaining fasteners
2 zone light
3 cover bracket

14 Install and secure the cover bracket and zone light subassembly to the right side bracket using the retaining fasteners.

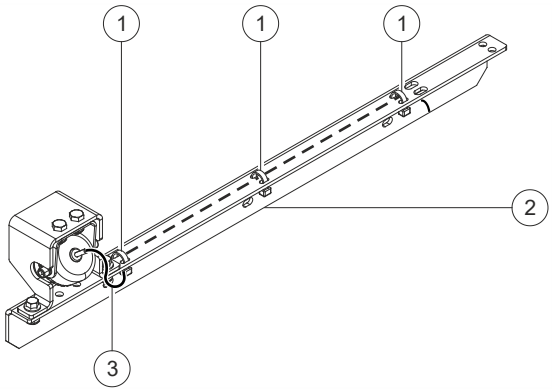
Genie part numbers 1256855GT, 1277924GT 1338146GT



1 retaining fasteners
2 right side bracket

15 Route the zone light cable underneath the top surface of right side bracket. Secure the cable using the provided cable ties.

Genie part number 28443GT



1 cable ties
2 right side bracket
3 zone light cable

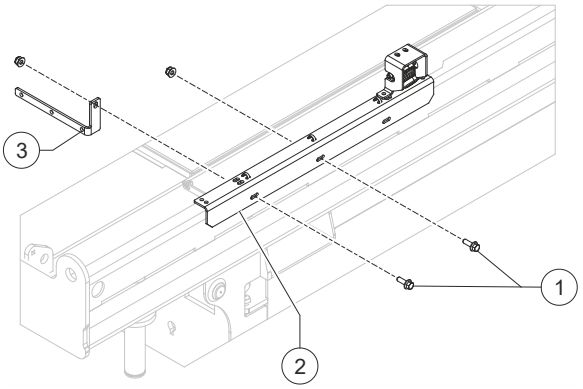
16 If required: Drill two 7 mm holes in the side bracket of the chassis. Deburr the holes.

Note: Refer to the drilling diagram included with these instructions.

Installation Instructions

17 Place a cable guide bracket on inner side of the right side bracket. Install and secure the right side bracket assembly and cable guide bracket to the chassis using the retaining fasteners.

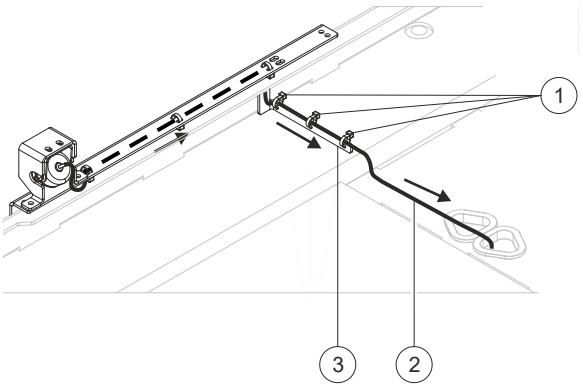
Genie part numbers 824078GT, 824079GT, 1277924GT, 1338341GT



1 retaining fasteners
2 right side bracket assembly
3 cable guide bracket

18 Route the zone light cable along the cable guide bracket and then down through the existing hole on the chassis. Secure the cable using the provided cable ties.

Genie part number 28443GT

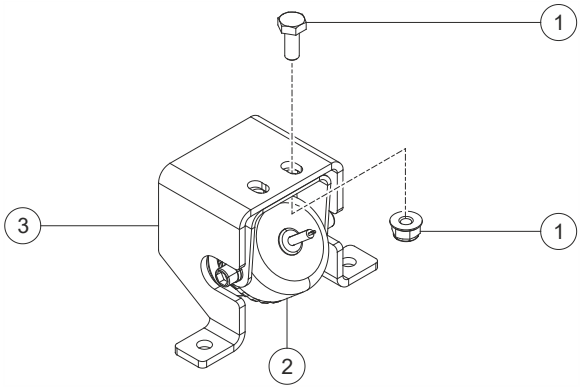


1 cable ties
2 zone light cable
3 cable guide bracket

Left Side Zone Light Installation

19 Install and secure a zone light to the cover bracket using the retaining fasteners.

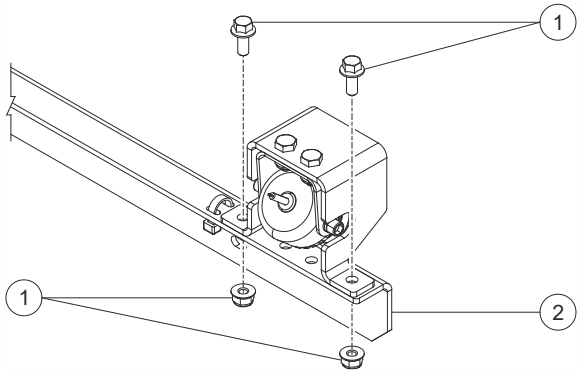
Genie part numbers 1256855GT, 1277924GT, 1337613GT, 1338499GT



1 retaining fasteners
2 zone light
3 cover bracket

20 Install and secure the cover bracket and zone light subassembly to the left side bracket using the retaining fasteners.

Genie part numbers 1256855GT, 1277924GT, 1338146GT

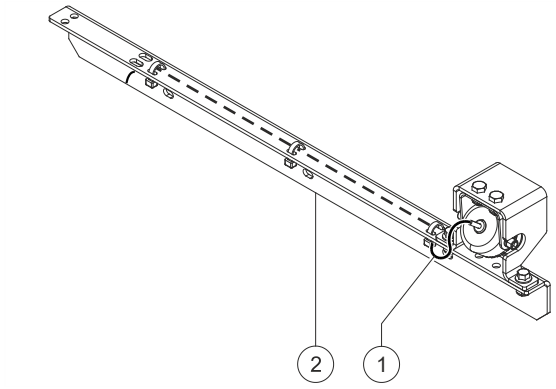


1 retaining fasteners
2 left side bracket

Installation Instructions

21 Route the zone light cable underneath the top surface of left side bracket. Secure the cable using the provided cable ties.

Genie part number 28443GT



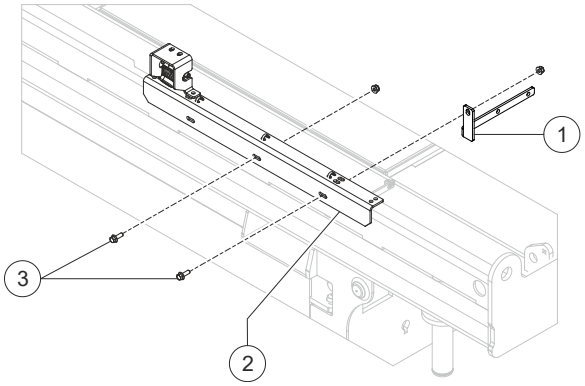
1 zone light cable
2 left side bracket

22 If required: Drill two 7 mm holes in the side bracket of the chassis. Deburr the holes.

Note: Refer to the drilling diagram included with these instructions.

23 Place a cable guide bracket on inner side of the left side bracket. Install and secure the left side bracket assembly and cable guide bracket to the chassis using the retaining fasteners.

Genie part numbers 1338341GT, 824078GT, 824079GT, 1277924GT

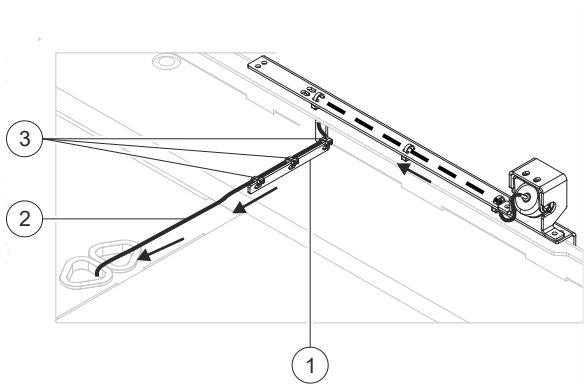


1 cable guide bracket
2 left side bracket assembly
3 retaining fasteners

Installation Instructions

24 Route the zone light cable along the cable guide bracket and then down through the existing hole on the chassis. Secure the cable using the provided cable ties.

Genie part number 28443GT

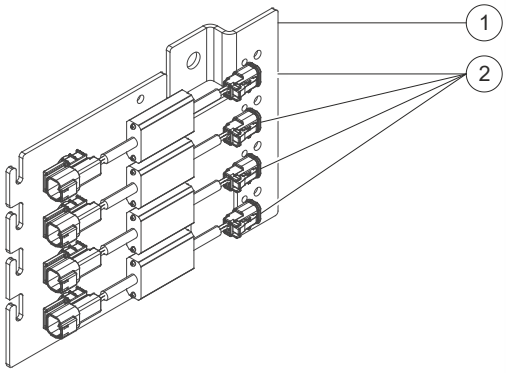


1 cable guide bracket
2 zone light cable
3 cable ties

Driver Assembly Installation

25 Apply the adhesive to the zone light drivers and install them on the driver mount bracket.

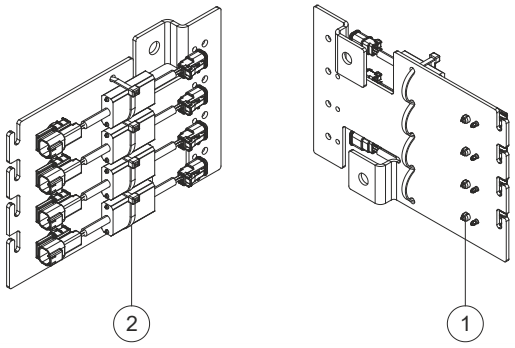
Genie part numbers 1337615GT, 1338563GT



1 driver mount bracket
2 drivers

26 Secure all four drivers to the driver mount bracket using the mounting clips on 2 pin connectors and provided cable ties.

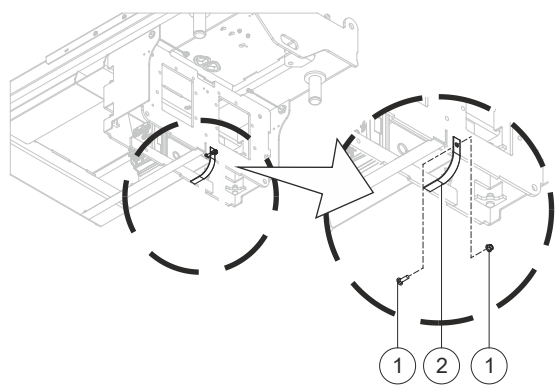
Genie part number 28443GT



1 clips
2 cable ties

Installation Instructions

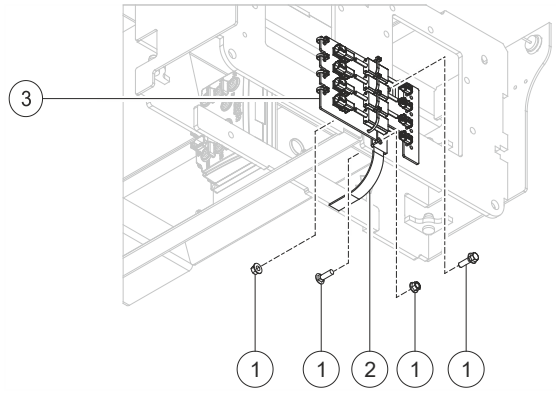
27 Remove the retaining fasteners securing the ground strap to the front side of the chassis. Set the retaining fasteners and ground strap aside.



1 Retaining fasteners
2 ground strap

28 Install and secure the driver mount bracket assembly along with the ground strap to the front side of the chassis using the retaining fasteners set aside.

Genie part numbers 824091GT, 1274322GT



1 retaining fasteners
2 ground strap
3 driver mount bracket assembly

Zone Lighting Harness Routing

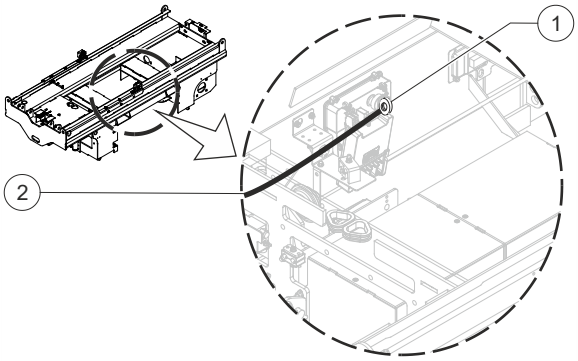
Note: Refer to the harness diagram included with these instructions.

29 Open the ground control (GCON) compartment.

30 Working from the back of the GCON, remove the screw from the bottom terminal of the keyswitch.

31 Add a ring terminal from the zone lighting harness to the bottom terminal of keyswitch to provide the voltage to the circuit when the emergency stop button is pulled out.

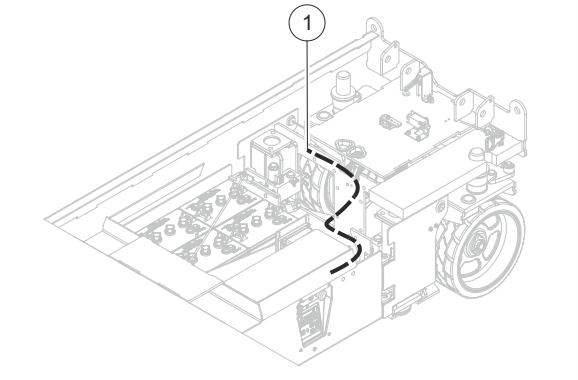
Genie part number 1337499GT



1 ring terminal
2 zone lighting harness

Installation Instructions

32 Route the spade terminal wires of zone lighting harness to the left side of the machine and secure it with the existing brackets on the chassis using provided cable ties.

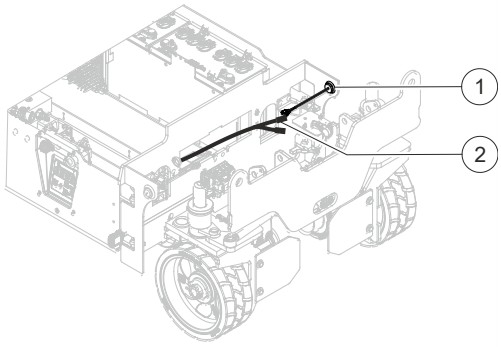


1 zone lighting harness

33 Locate the left side flashing beacon and it's harness connection with the main control harness.

34 Disconnect the female terminal of flashing beacon harness from the main control harness.

35 Connect the male terminal of the zone lighting harness to the female terminal of the flashing beacon harness.



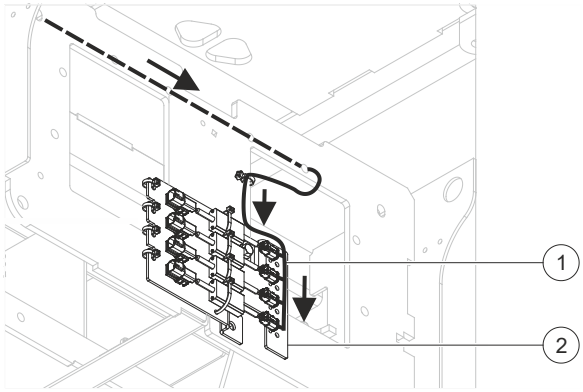
1 flashing beacon, left side
2 male terminal, zone lighting harness

36 Connect the male terminal of the main control harness to the female terminal of the zone lighting harness to maintain the ground signal for the circuit.

Installation Instructions

37 Route other four wires with 2 pin connectors from the zone lighting harness to the driver assembly.

Genie part number 1302181GT



1 2 pin connectors, zone lighting harness
2 driver assembly

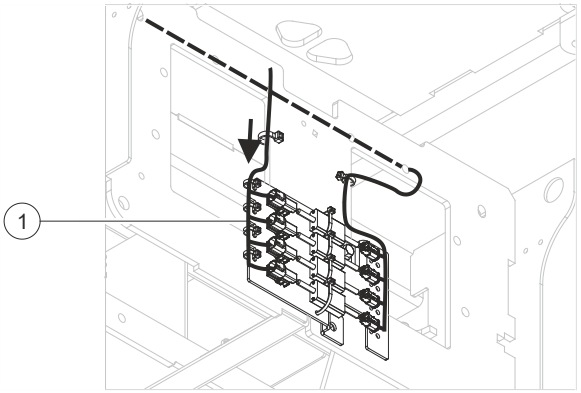
38 Connect all four 2 pin connectors to each socket of the drivers. Do not secure the harness with cable ties at this time.

39 Route rear, front, left and right zone light cables to the driver assembly. Secure all cables and zone lighting harness using the provided cable ties.

40 Install the loose socket terminals on the 2 pin connectors of the four zone light cables and add the lock.

Note: Install the red wire on pin 1 and the black wire on pin 2.

41 Connect 2 pin connectors of zone light cables to the mating connectors of the drivers.



1 2 pin connectors, zone light cables

42 Connect the battery packs to the machine.

43 Perform the function test. Refer to the Inspection section for the function test.

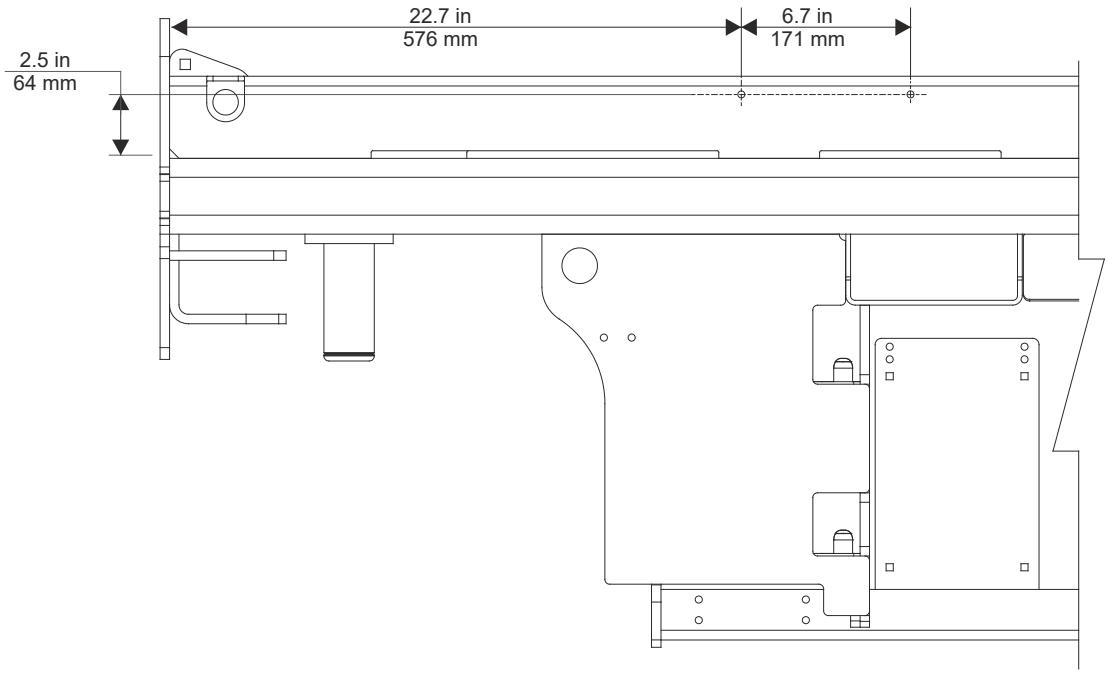
44 Remove the safety chock.

45 Lower the machine to the stowed position.

46 Return the machine to service.

Drilling Diagram

Drilling Diagram



Harness Diagram

Harness Diagram



1 2 pin connectors
2 ring terminal
3 C134, power
4 fuse, 5A
5 ground cable spade terminal

Inspections

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.

Check the Lift Guard Zone Lighting damage or wear, improperly installed, loose or missing parts and unauthorized modifications.

- ☐ Nuts, bolts and other fasteners
- ☐ Cracks in welds or structural components
- ☐ Dents or damage
- ☐ Electrical components, wiring, and electrical cables
- ☐ Cracks on zone lights and components

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.

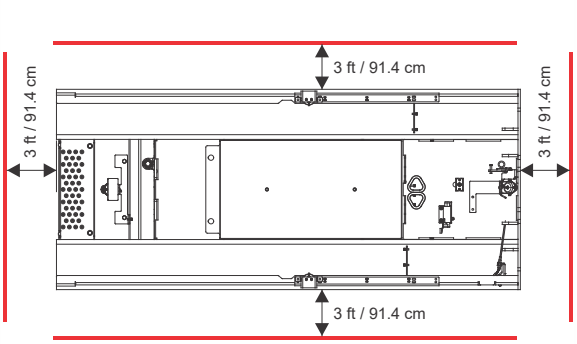
After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

Inspections

At the Ground Controls

1 Pull out the red Emergency Stop button to the on position at the ground controls.

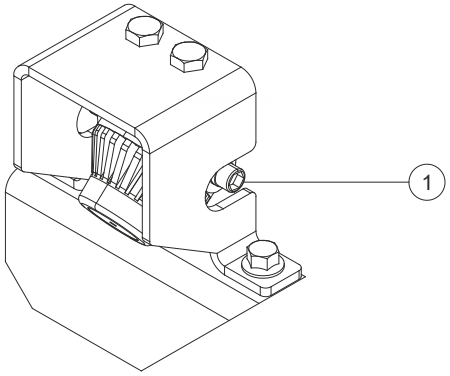
⊙ Result: All four zone lights turn on simultaneously.



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

⊙ Result: All four zone lights turn off simultaneously.

Note: Make sure that the zone lights project a beam on the ground 3 feet / 91.4 cm from all four sides of the machine. Use the adjustment screw on the side of the light to set the correct distance of the light around the machine.



1 adjustment screw

Operating Instructions

Lift Guard Zone Lighting Operation

1 Verify the Lift Guard Zone Lighting installation instructions are followed properly.

2 Verify the zone lights are installed on all four sides of the machine.

3 Pull out the red Emergency Stop button to the on position at the ground controls.

4 Using the adjustment screw on the side of the light, set the correct distance of the light around the machine.

Note: Make sure that the zone lights project a beam on the ground 3 feet / 91.4 cm from all four sides of the machine.

California Proposition 65

WARNING

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.

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