



Operator's Manual

Serial number range

Z[®]-45 FE
Z[®]-45 DC

From serial n.: Z45EM-101

AUS
Australia

with
Maintenance
Information

First Edition
First Printing
Part No. 1299208GT

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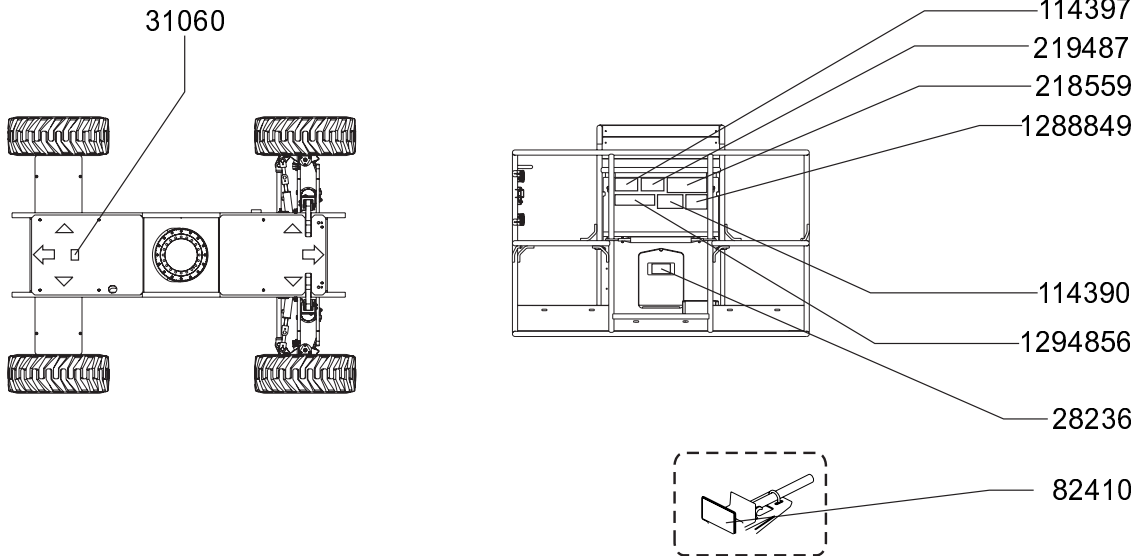


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General Safety

Z-45 DC



31060

⚠ DANGER

Tip-over Hazard
 Allowing or disabling sensors or limit switches can result in machine tip-over. Machine tip-over will result in death or serious injury.

Do not alter or disable sensors and/or limit switches.

31060 D

219487

⚠ DANGER

Platform Overload Indicator Light
 Light flashing indicates the platform is overloaded. The engine will stop and no functions will operate.

Remove weight from the platform until the light goes off and then restart the engine.

Tip-over Hazard
 Do not overload platform. Platform overload will result in death or serious injury.

219487 A

114397

⚠ DANGER

STOP
 Stop all movement.

Tip-over Hazard
 If lift-alarm sounds, unit is on a severe slope. Death or serious injury will result.

Read operator's manual before attempting to move machine.

Platform up/down:
 1. Lower primary boom.
 2. Lower secondary boom.
 3. Retract primary boom.

Platform down:
 1. Retract primary boom.
 2. Lower secondary boom.
 3. Lower primary boom.

114397 A

218559

⚠ DANGER **⚠ WARNING** **⚠ WARNING**

Tip-over Hazard
 Platform on uneven surface may result in death or serious injury.

Machine Movement Hazard
 Machine can move in unexpected direction if controls are not used properly. Death or serious injury.

Control Hazard
 Control with unsecured distribution may result in death or serious injury.

Machine Movement Hazard
 Machine can move in unexpected direction if controls are not used properly. Death or serious injury.

Machine Movement Hazard
 Machine can move in unexpected direction if controls are not used properly. Death or serious injury.

218559 A

1288849

⚠ WARNING

Overload On Slope
 Do not allow a machine to operate on a slope that exceeds the rated capacity. Death or serious injury.

Runaway Hazard
 Machine movement on a slope when a machine is operated on a slope that exceeds the rated capacity. Death or serious injury.

1288849 A

1294856

⚠ DANGER

Machine on alternate lift system
 28 mph / 12.5 m/sec

Machine on alternate lift system
 Do not operate at a speed in excess of 28 mph / 12.5 m/sec.

Machine on alternate lift system
 Do not operate at a speed in excess of 28 mph / 12.5 m/sec.

Machine on alternate lift system
 Do not operate at a speed in excess of 28 mph / 12.5 m/sec.

Tip-over Hazard
 If lift-alarm sounds, unit is on a severe slope. Death or serious injury will result.

1294856 A

28236

⚠ WARNING

Read and understand Operator's Manual, Responsibilities Manual and Safety Manual and all safety signs before using or maintaining machine.

Improper operation or maintenance can result in serious injury or death.

28236 D

114390

⚠ DANGER

Read and understand Operator's Manual, Responsibilities Manual and Safety Manual and all safety signs before using or maintaining machine.

Improper operation or maintenance can result in serious injury or death.

114390 A

82410

⚠ WARNING

Bodily Injury Hazard
 Failure to use panel cradles according to instructions and safety rules below and in operator's and responsibilities manual could result in death or serious injury.

Do not exceed rated platform capacity. Overload may result in death or serious injury.

Weight of panel cradles and load in panel cradles may exceed maximum number of occupants in platform to one person.

Secure cradles to platform.

Do not operate unless you are adequately trained and certified in the use of lift trucks associated with this power.

Do not cause a horizontal force or additional resistance by leaning or climbing a beam or overhanging load.

Maximum weight of goods: 417.2 kg

Maximum wind speed: 15 mph / 6.7 m/sec

Maximum payload: 25 kg / 55 lb

82410 A

Work Area Safety



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

Operators must comply with employer, job site and governmental rules regarding 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.



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.

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.

When the engine is running, operate the machine in a well-ventilated area to avoid carbon monoxide poisoning.

Explosion and Fire Hazards

Do not start the engine if you smell or detect diesel fuel or other explosive substances.

Do not refuel the machine with the engine running.

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

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

Do not spray ether into engine.

Controls

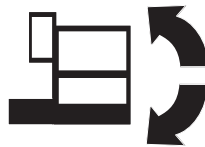
Platform Control Panel

1 Horn button

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

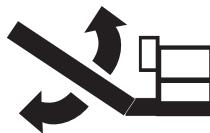
2 Platform level switch

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 Jib boom up/down switch

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



4 Platform rotate switch

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



5 Primary boom extend/retract switch

Move the primary boom extend/retract switch up and the primary boom will retract. Move the boom extend/retract switch down and the primary boom will extend.



6 Function speed control switch

Move the switch to the left and the function speeds for jib up/down, platform rotate and primary boom extend/retract will decrease. Move the switch to the right and the function speeds for jib up/down, platform rotate and primary boom extend/retract will increase.

Note: Function speeds will increase or decrease by 5% each time the speed control switch is moved. The speed control switch can also be held in either direction to increase or decrease function speed

7 Auxiliary power switch

Use auxiliary power if the primary power source is not available. Simultaneously hold the auxiliary power switch up or down and activate the desired function.

8 Inverter switch (if equipped)

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

9 Aircraft protection override switch (if equipped)

Move and hold the aircraft protection override switch to operate the machine when the platform bumper is against an object.

10 Red Emergency Stop button

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

11 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

Inspections

72 Drive the machine onto a slope where the chassis pitch angle is greater than 4.5°.

- ⦿ Result: The machine should stop once the machine reaches 4.5° of chassis tilt and the alarm should sound at the platform controls.

73 Lower the secondary boom to the stowed position or drive in the opposite direction.

- ⦿ Result: The machine should drive.

74 With the boom fully stowed, drive the machine onto a slope where the chassis roll angle is greater than 4.5°.

- ⦿ Result: The machine should continue to drive.

75 Return to level ground and raise the primary boom to an out of stowed position (approximately 10° above horizontal).

76 Drive the machine onto a slope where the chassis roll angle is greater than 4.5°.

- ⦿ Result: The machine should stop once the machine reaches 4.5° of chassis tilt and the alarm should sound at the platform controls.

77 Lower the primary boom to the stowed position or drive in the opposite direction.

- ⦿ Result: The machine should drive.

78 Return to level ground and extend the primary boom approximately 0.5 m.

79 Drive the machine onto a slope where the chassis roll angle is greater than 4.5°.

- ⦿ Result: The machine should stop once the machine reaches 4.5° of chassis tilt and the alarm should sound at the platform controls.

80 Retract the primary boom to the stowed position or drive in the opposite direction.

- ⦿ Result: The machine should drive.

81 Return to level ground and stow the boom.

82 With the boom fully stowed, drive the machine onto a slope where the chassis roll angle is greater than 4.5°.

- ⦿ Result: The machine should continue to drive.

83 Return to level ground and raise the secondary boom to an out of stowed position (approximately 15° above horizontal).

84 Drive the machine onto a slope where the chassis roll angle is greater than 4.5°.

- ⦿ Result: The machine should stop once the machine reaches 4.5° of chassis tilt and the alarm should sound at the platform controls.

85 Lower the secondary boom to the stowed position or drive in the opposite direction.

- ⦿ Result: The machine should drive.

Test Oscillating Axle (if equipped)

86 Drive the right steer tire up onto a 15 cm block or curb.

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

87 Drive the left steer tire up onto a 15 cm block or curb.

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

88 Drive both steer tires up onto a 15 cm block or curb.

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

Operating Instructions

FE Models: Starting the Engine

From the ground control panel:

- 1 Turn the key switch to ground control.
- 2 Be sure both ground and platform control red Emergency Stop buttons are pulled out to the on position.
- 3 Move the machine mode select switch to hybrid mode.
- 4 Push the function enable button to start the engine.



From the platform control panel:

- 5 Turn the key switch to platform control.
- 6 Be sure both ground and platform control red Emergency Stop buttons are pulled out to the on position.
- 7 Move the machine mode select switch to hybrid mode.
- 8 Press down the foot switch to start the engine.

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, -6°C and below, warm up the engine for 5 minutes before operating to prevent hydraulic system damage.

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

Operation from Ground

- 1 Turn the key switch to ground control.
- 2 Pull out the red Emergency Stop button to the on position.
- 3 FE Models: Select DC mode or Hybrid mode.
- 4 FE Models: Start the engine

To Position Platform

- 1 Press and hold a function enable 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.

Transport and Lifting Instructions



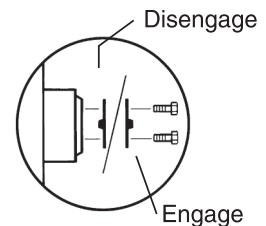
Observe and Obey:

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

Free-wheel Configuration for Winching

Chock the wheels to prevent the machine from rolling.

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.

Note: Towing the Genie Z-45 DC or the Z-45 FE is not recommended. If the machine must be towed, do not exceed 3.2 km/h.

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