



# ***Operator's Manual***

***Z-45/25***  
***Z-45/25J***  
***IC Power***

ANSI/CSA  
North America  
South America  
Asia

AUS  
Australia

with  
Maintenance  
Information

Fourth Edition  
First Printing  
Part No. 114339

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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)

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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 hazardous situation which, if not avoided, could result in property damage.

















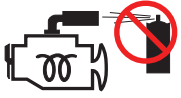
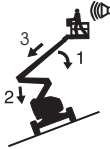
### Intended Use

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



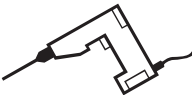


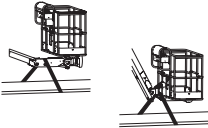
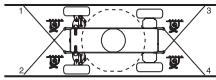
### Safety Sign Maintenance

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

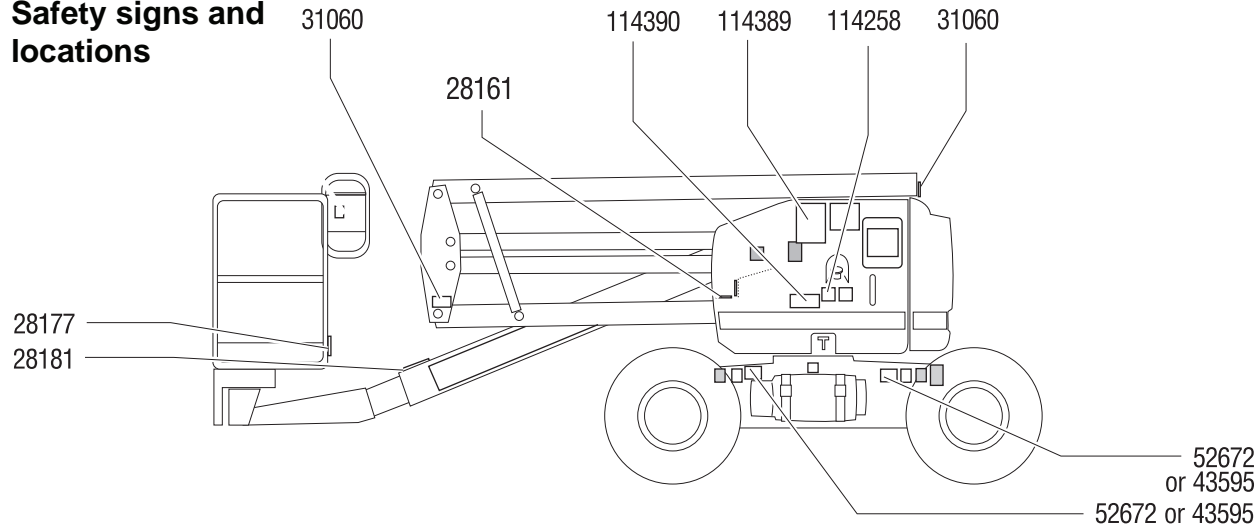
				
Crush Hazard	Burn Hazard	Fire Hazard	Explosion Hazard	Electrocution Hazard
				
Fall Hazard	Crush Hazard	Tip-over Hazard	Tip-over Hazard	Electrocution Hazard
				
Keep off this surface.	Keep away from moving parts.	Maintain required clearance.	Keep away from path of moving platform.	Only trained maintenance personnel should access compartments.
			<p>Recovery procedure if tilt alarm sounds while elevated.</p> <div>   </div> <p>Platform uphill:  1 Lower primary  2 Lower secondary  3 Retract primary</p> <p>Platform downhill:  1 Retract primary  2 Lower secondary  3 Lower primary</p>	
Read the operator's manual.	No smoking. No flame. Stop engine.	Do not use ether or other high energy starting aids on machines equipped with glow plugs.		

## Symbol and Hazard Pictorials Definitions

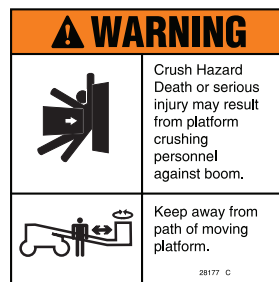
 <p>Lanyard attachment point</p>	 <p>Wheel load</p>	 <p>Voltage rating for power to platform</p>	 <p>Pressure rating for air line to platform</p>	 <p>Replace tires with tires of same specification.</p>
 <p>Tie-down instructions</p>	 <p>Tie-down instructions</p>			

## General Safety

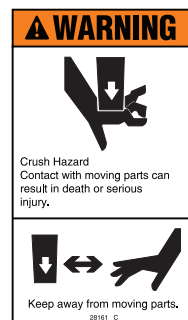
### Safety signs and locations



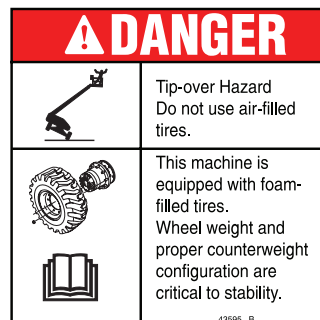
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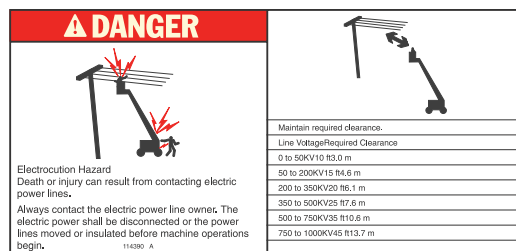
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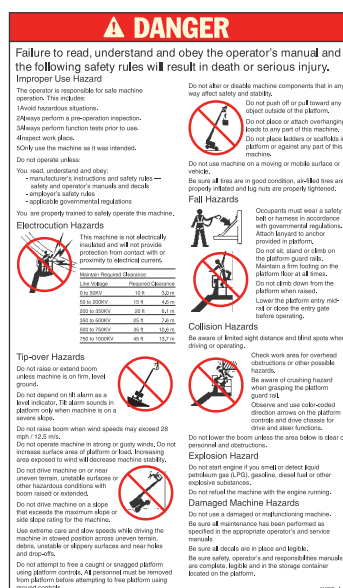
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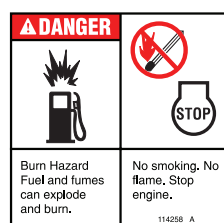
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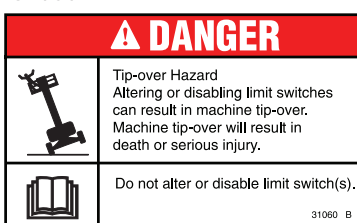
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**Genie**  
A TEREX COMPANY

## General Safety

### Safety signs and locations

114389

**⚠ 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**  
This operator is responsible for safe machine operation. This includes:  
• Avoid hazardous situations.  
• Always perform a pre-operation inspection.  
• Always perform function tests prior to use.  
• Observe work plans.  
• 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.  
• applicable governmental regulations.

You are properly trained to safely operate this machine.

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

Line Voltage	Maximum Reach (m)
120 to 240V	18.3
240 to 277V	15.2
277 to 300V	12.2
300 to 330V	9.1
330 to 345V	6.1

**Tip-over Hazards**  
Do not raise or extend boom unless machine is on firm, level ground.  
Do not depend on tilt alarm as a level indicator. Tilt alarm sounds in platform only when machine is in a severe tilt.  
Do not raise boom when wind speeds may exceed 38 mph (17.8 m/s).  
Do not operate machine in strong or gusty winds. Do not increase surface area of platform or boom, increasing 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 safe slope rating for the machine.  
Use extreme care and slow speeds while driving the machine in tilted position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.  
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.

**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 rail or door the entry gate before operating.

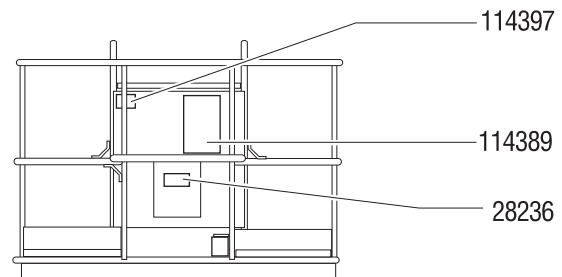
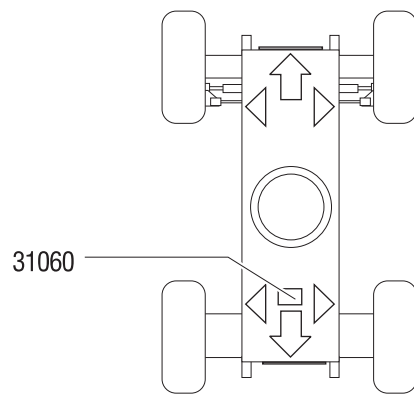
**Collision Hazards**  
Be aware of limited sight distance and blind spots when driving or operating.  
Check work area for overhead obstructions or other possible hazards.  
Be aware of coupling hazard when grasping the platform guard rail.  
Observe and use color-coded directional arrows on the platform controls and drive chassis for drive and other functions.

**Do not lower the boom unless 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 explosive substances.  
Do not refuel the machine with the engine running.

**Damaged Machine Hazards**  
Do not use a damaged or malfunctioning machine.  
Be sure all maintenance has been performed as specified in the appropriate operator's and service manuals.  
Be sure all decals are in place and legible.  
Be sure safety operators and responsibilities manuals are complete, legible and in the storage container located on the platform.

114389 A



114397

**⚠ DANGER**

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

**STOP**

• Stop all movement.

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

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

• Read operator's manual before attempting to move machine.

114397 A

31060

**⚠ DANGER**

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

**Do not alter or disable limit switch(s).**

31060 B

28236

**⚠ WARNING**

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

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

If you do not understand the information in the manuals, consult your supervisor, the owner or the manufacturer.


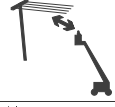
28236 D





## General Safety

### Safety signs and locations



114390

<b>⚠ DANGER</b>															
	<p>Electrocution Hazard Death or injury can result from contacting electric power lines.</p> <p>Always contact the electric power line owner. The electric power shall be disconnected or the power lines moved or insulated before machine operations begin.</p> <p>114390 A</p>														
	<p>Maintain required clearance.</p> <table border="1"> <thead> <tr> <th>Line Voltage</th> <th>Required Clearance</th> </tr> </thead> <tbody> <tr> <td>0 to 50KV</td> <td>10 ft/3.0 m</td> </tr> <tr> <td>50 to 200KV</td> <td>15 ft/4.6 m</td> </tr> <tr> <td>200 to 350KV</td> <td>20 ft/6.1 m</td> </tr> <tr> <td>350 to 500KV</td> <td>25 ft/7.6 m</td> </tr> <tr> <td>500 to 750KV</td> <td>35 ft/10.6 m</td> </tr> <tr> <td>750 to 1000KV</td> <td>45 ft/13.7 m</td> </tr> </tbody> </table>	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
Line Voltage	Required Clearance														
0 to 50KV	10 ft/3.0 m														
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350 to 500KV	25 ft/7.6 m														
500 to 750KV	35 ft/10.6 m														
750 to 1000KV	45 ft/13.7 m														



28175

<b>⚠ WARNING</b>	
	<p>Compartment access is restricted. Contact with components under any cover may result in serious injury.</p> <p>28175 G</p>
	<p>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.</p>



28177

<b>⚠ WARNING</b>	
	<p>Crush Hazard Death or serious injury may result from platform crushing personnel against boom.</p>
	<p>Keep away from path of moving platform.</p> <p>28177 C</p>


97602

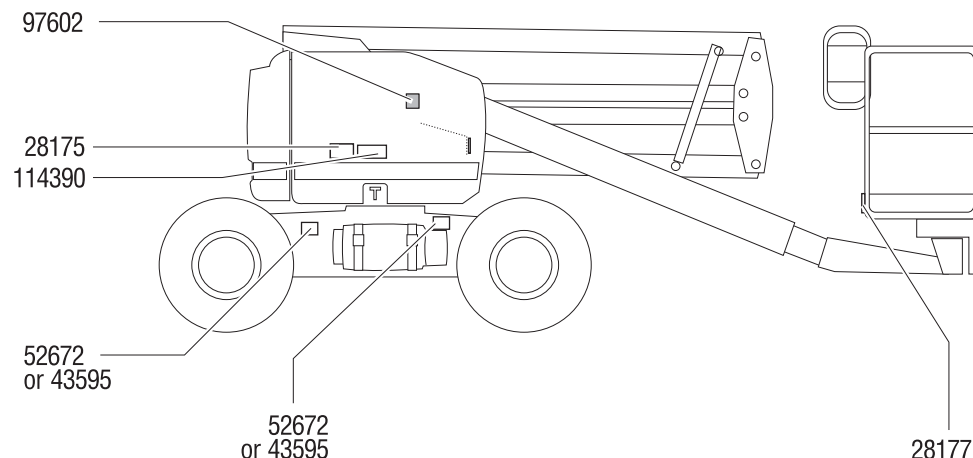
<b>⚠ WARNING</b>	
	<p>Explosion Hazard Death or serious injury can result from the use of ether or other high energy starting aids.</p>
	<p>Do not use ether or other high energy starting aids on machines equipped with glow plugs.</p> <p>97602 B</p>

43595

<b>⚠ DANGER</b>	
	<p>Tip-over Hazard Do not use air-filled tires.</p>
	<p>This machine is equipped with foam-filled tires. Wheel weight and proper counterweight configuration are critical to stability.</p> <p>43595 B</p>

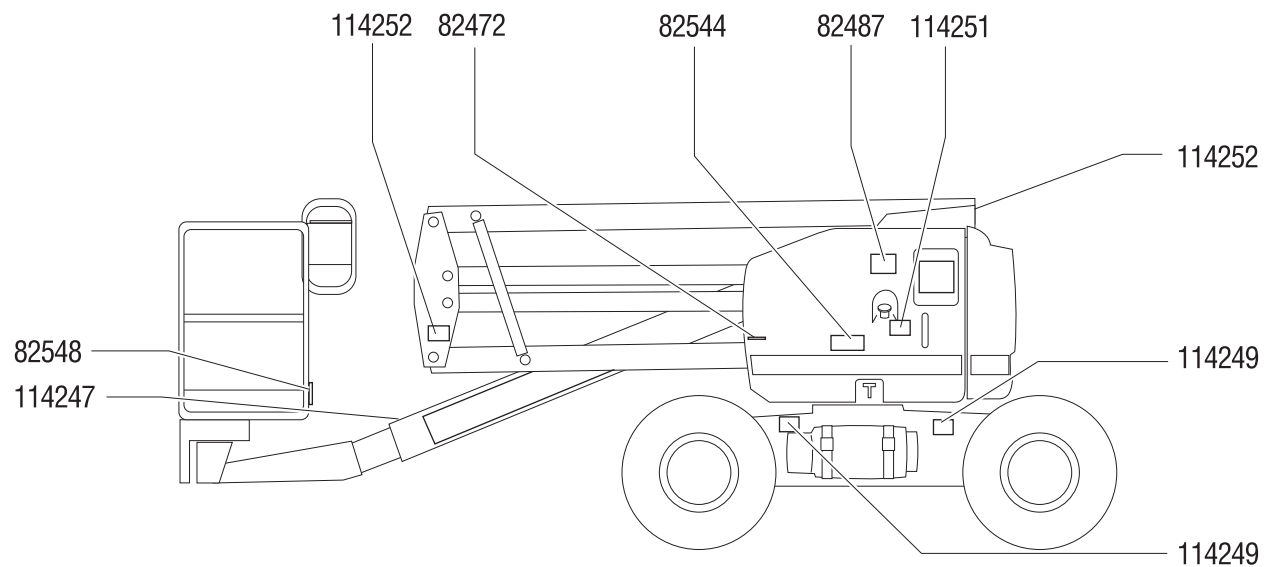
52672

<b>⚠ DANGER</b>	
	<p>Tip-over Hazard Failure to replace tires with tires of same specification will result in death or serious injury.</p>
	<p>Tires are critical to machine stability. Do not replace original factory-installed tires with tires of different specification or ply rating.</p> <p>52672 B</p>


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## General Safety

### Safety signs and locations



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114252



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114249



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## General Safety

### Safety signs and locations

114252



114248



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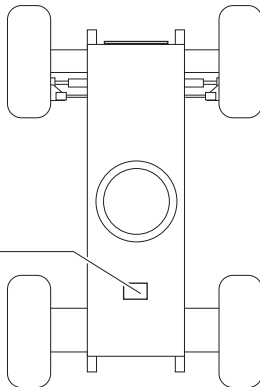
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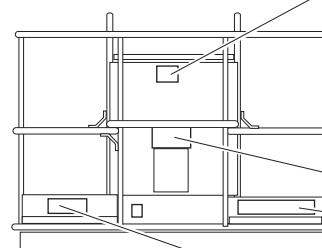
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## General Safety

### Safety signs and locations

114249



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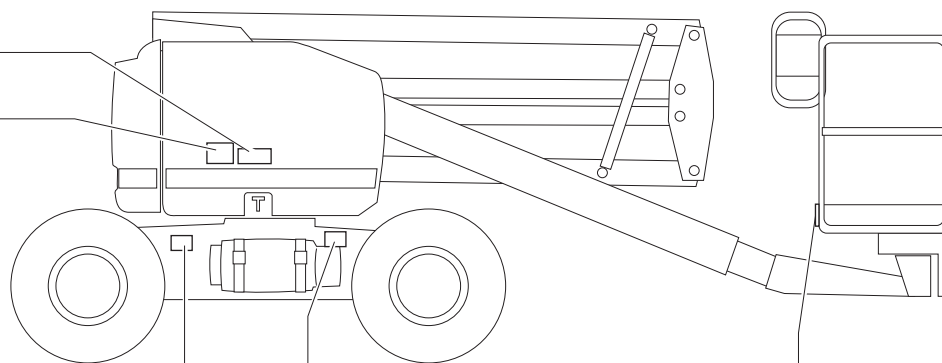


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82544

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## 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.

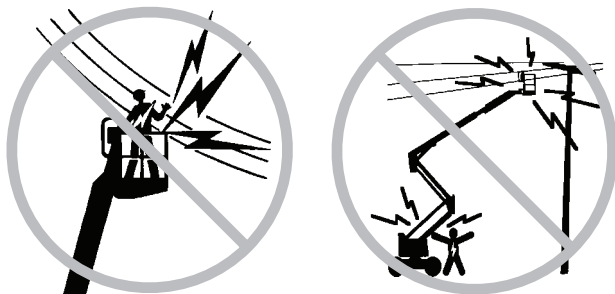
Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.

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

### ⚠️ Electrocuting Hazards

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



Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

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 use the machine as a ground for welding.

Do not operate the machine during lightning or storms.

### ⚠️ Tip-over Hazards

Occupants, equipment and materials shall not exceed the maximum platform capacity.

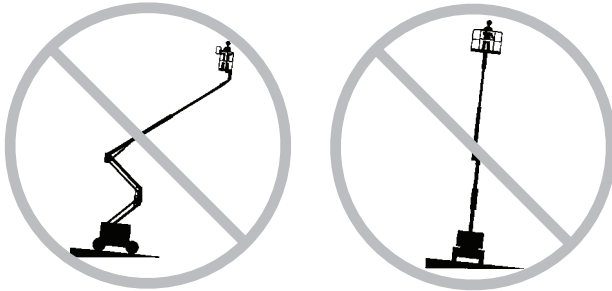
<b>Maximum platform capacity</b>	500 lbs	227 kg
<b>Maximum occupants</b>	2	
<b>Maximum capacity</b>		
Machine equipped with Aircraft Protection Package	440 lbs	200 kg

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 with the options.

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

## Work Area Safety

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



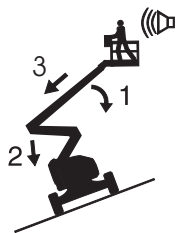
Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds in the platform only when the machine is on a severe slope.

If the tilt alarm sounds while the boom is lowered: Do not extend, rotate or raise the boom above horizontal. Move the machine to a firm, level surface before raising the platform.

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

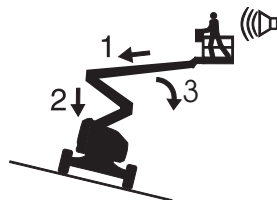
If the tilt alarm sounds with the platform uphill:

- 1 Lower the primary boom.
- 2 Lower the secondary boom.
- 3 Retract the primary boom.



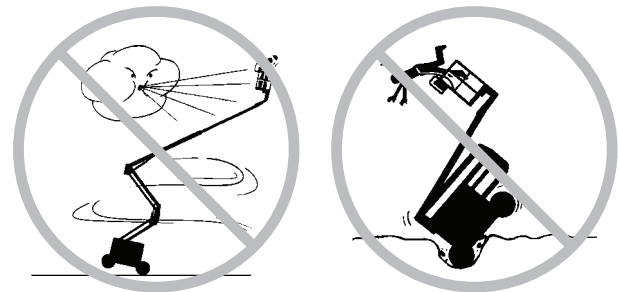
If the tilt alarm sounds with the platform downhill:

- 1 Retract the primary boom.
- 2 Lower the secondary boom.
- 3 Lower the primary 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.



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.

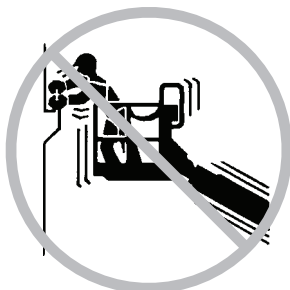
## Work Area Safety

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.

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

### **Z-45/25 and Z-45/25J Narrow Base Models:**

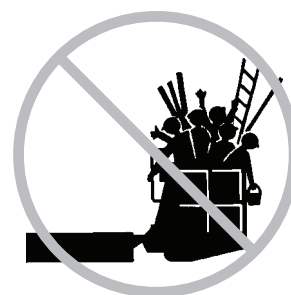
Do not use air-filled tires. These machines are equipped with foam-filled tires. Wheel weight and proper counterweight configuration are critical to stability.

### **Z-45/25 and Z-45/25J models equipped with Aircraft Protection Package:**

Do not use air-filled tires. These machines are equipped with foam-filled tires. Wheel weight and proper counterweight configuration are critical to stability.

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.



## Work Area Safety

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.

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

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

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

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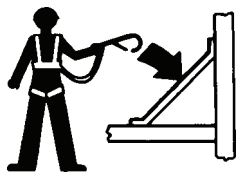
Platform downhill	45% (24°)
Platform uphill	25% (14°)
Side slope	25% (14°)

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Note: Slope rating is subject to ground conditions and adequate traction. See Driving on a Slope in the Operating Instructions Section.

## 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 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 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.

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.

### **⚠ 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.

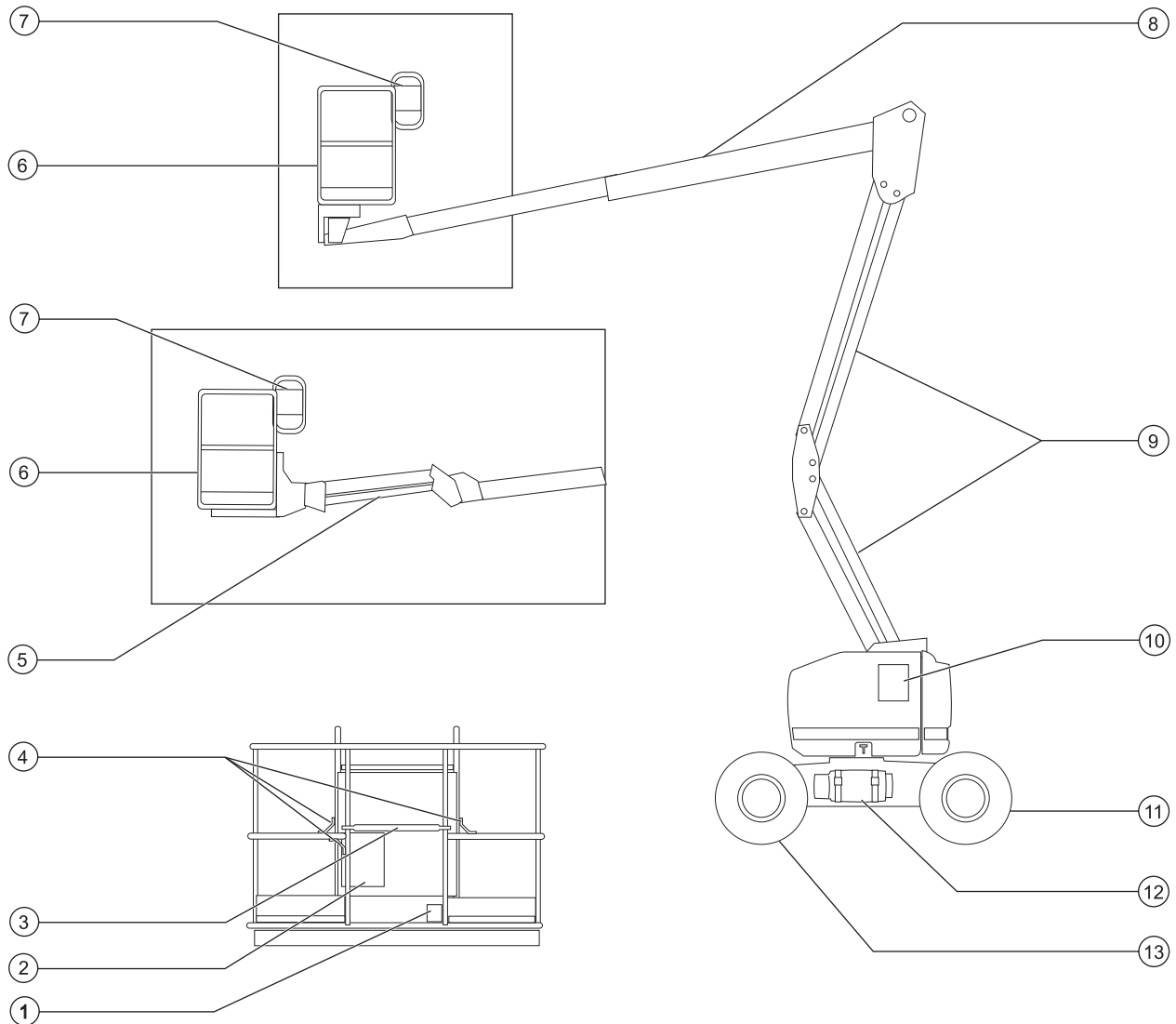
#### Electrocution Hazard

Avoid contact with electrical terminals.

### 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.

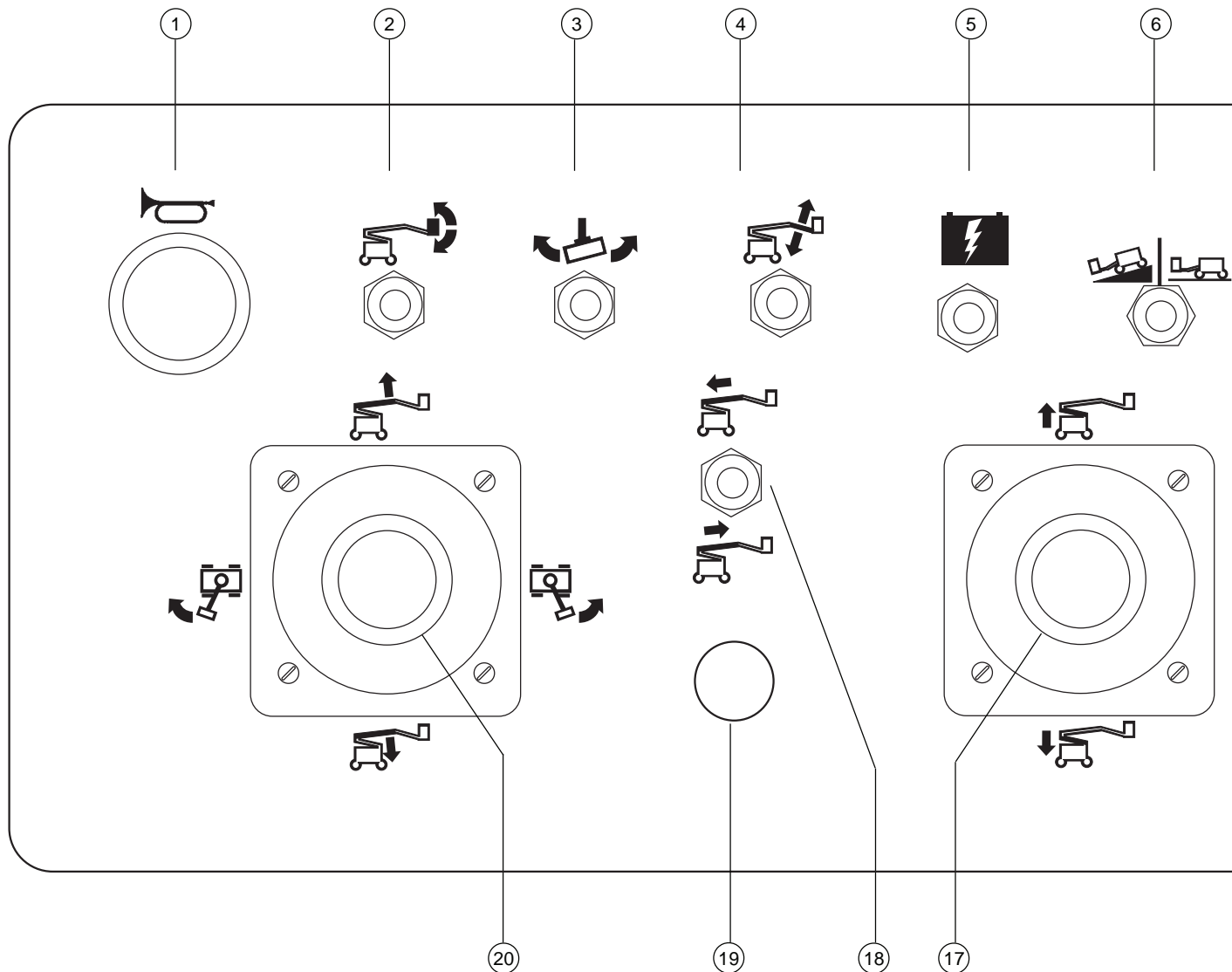
## Legend



- 1 Foot switch
- 2 Manual storage container
- 3 Sliding mid-rail
- 4 Lanyard anchorage point
- 5 Jib boom (Z-45/25J and Z-51/30)
- 6 Platform
- 7 Platform controls

- 8 Primary boom
- 9 Secondary boom
- 10 Ground controls
- 11 Steer tire
- 12 LPG tank (if equipped)
- 13 Non-steer tire

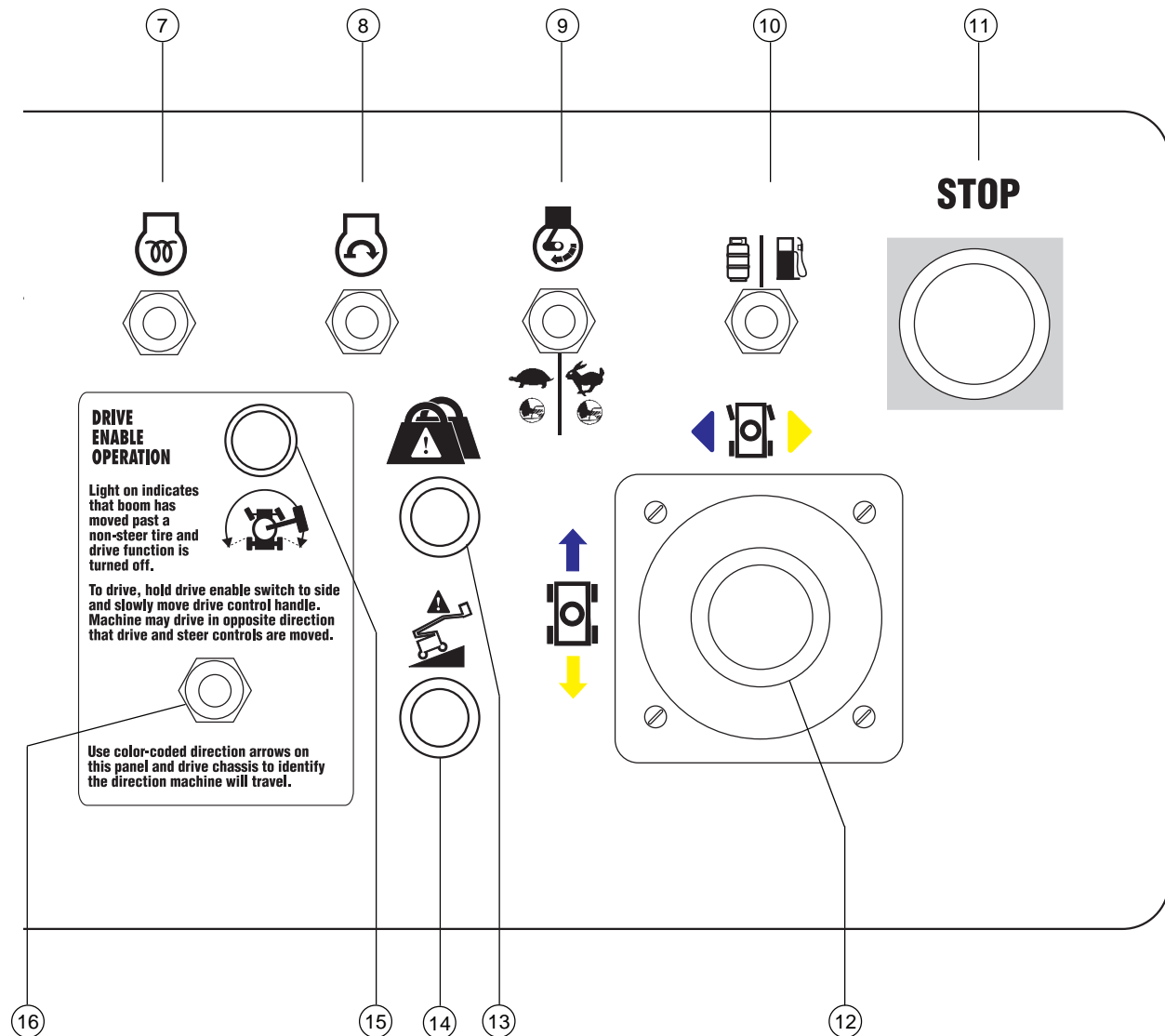
## Controls



### Platform Control Panel

- |   |                                   |    |   |
|---|-----------------------------------|----|---|
| 1 | Horn button                       | 6  | Drive speed select switch                       |
| 2 | Platform level switch             | 7  | Diesel models: Glow plug switch                 |
| 3 | Platform rotate switch            | 8  | Engine start switch                             |
| 4 | Z-45/25J: Jib boom up/down switch | 9  | Engine idle (rpm) select switch                 |
| 5 | Auxiliary power switch            | 10 | Gasoline/LPG models: Gasoline/LPG select switch |

## Controls



11 Red Emergency Stop button

12 Dual axis proportional control handle for drive and steer functions  
OR Proportional control handle for drive function and thumb rocker for steer function

13 Not used

14 Machine not level indicator light (if equipped)

15 Drive enable indicator light

16 Drive enable switch

17 Proportional control handle for secondary boom up/down function

18 Primary boom extend/retract switch

19 Used for optional equipment

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

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



5 Auxiliary power switch

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

6 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.

7 Glow plug switch

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

8 Engine start switch

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

9 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.

10 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.

11 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.



## Controls

- 12 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.

- 13 Not used

- 14 Machine not level indicator light (if equipped)

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

- 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 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.

- 17 Proportional control handle for secondary boom up/down function

Move the control handle up and the secondary boom will raise. Move the control handle down and the secondary boom will lower.



- 18 Primary boom extend/retract switch

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



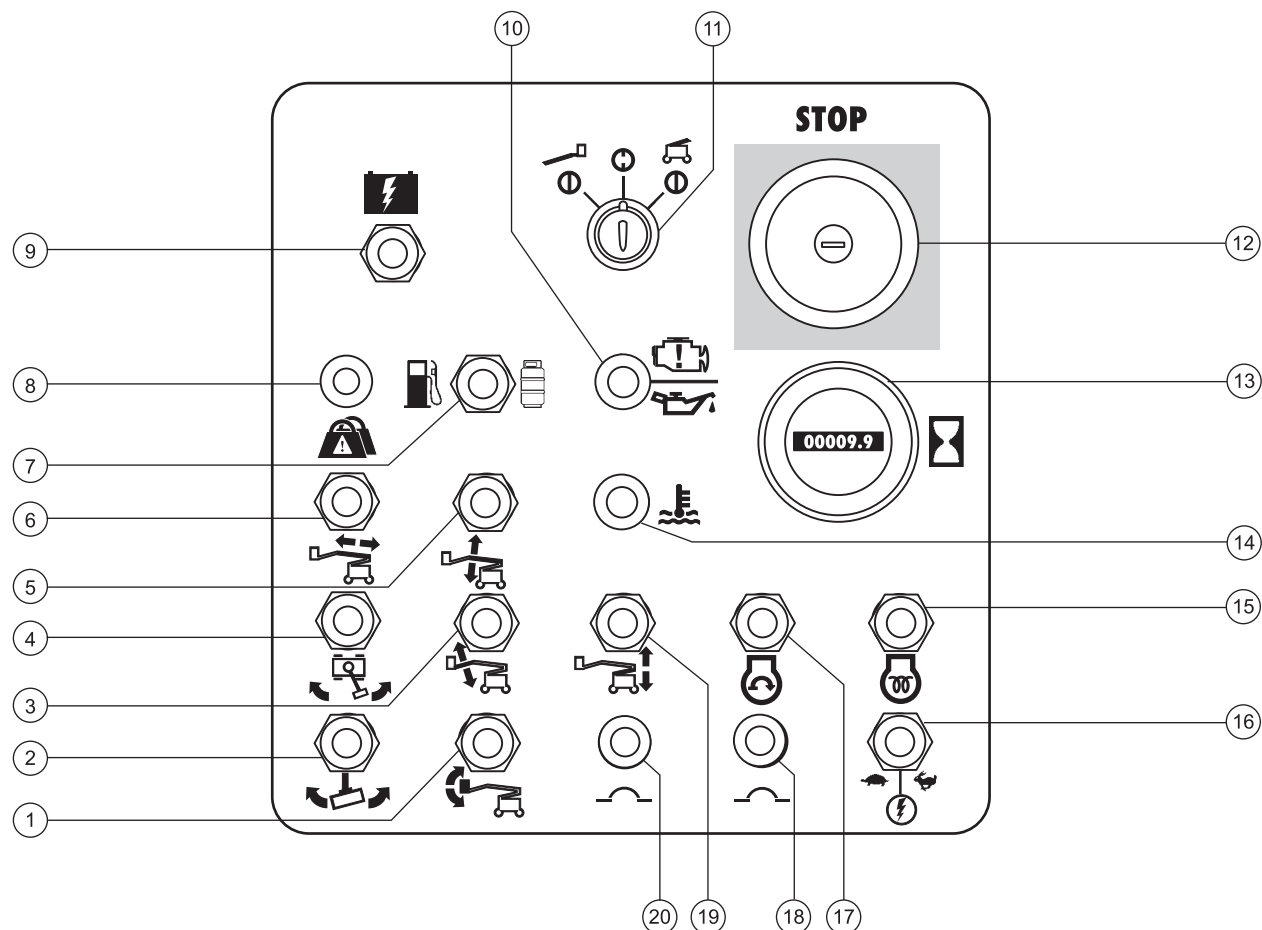
- 19 Used for optional equipment

- 20 Dual axis proportional control handle for primary boom up/down and turntable rotate left/right functions

Move the control handle up and the primary boom will raise. Move the control handle down and the primary 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 Platform level switch   | 11 Key switch for platform/off/ground selection  |
| 2 Platform rotate switch  | 12 Red Emergency Stop button                     |
| 3 Z-45/25J: Jib boom up/down switch   | 13 Hour meter                                    |
| 4 Turntable rotate switch   | 14 Diesel models: Water temperature light        |
| 5 Primary boom up/down switch   | 15 Diesel models: Glow plug switch (if equipped) |
| 6 Primary boom extend/retract switch  | 16 Function enable switch                        |
| 7 Gasoline/LPG models: Fuel select switch                                       | 17 Engine start switch                           |
| 8 Not used  | 18 15A breaker for engine electrical circuits    |
| 9 Auxiliary power switch  | 19 Secondary boom up/down switch                 |
| 10 Gasoline/LPG models: Check engine light<br>Diesel models: Oil pressure light | 20 15A breaker for control electrical circuits   |

## Controls

### Ground Control Panel

#### 1 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.



#### 2 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.



#### 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.



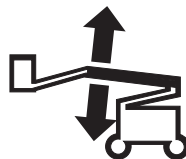
#### 4 Turntable rotate switch

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.



#### 5 Primary boom up/down switch

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



#### 6 Primary boom extend/retract switch

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



#### 7 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.

#### 8 Not used

#### 9 Auxiliary power switch

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

Simultaneously hold the auxiliary power switch to either side and activate the desired function.

#### 10 Gasoline/LPG models: Check engine light Diesel models: Oil pressure 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.

## Controls

### 11 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 the ground controls will operate.

### 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 Hour meter

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

### 14 Diesel models: Water temperature 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.

### 15 Diesel models: Glow plug switch (if equipped)

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

### 16 Function enable switch

Move the function enable switch to either side to enable the functions on the ground control panel to operate.

### 17 Engine start switch

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

### 18 15A breaker for engine electrical circuits

### 19 Secondary boom up/down switch

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



### 20 15A breaker for control electrical circuits

## 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

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- ☐ 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 Decals 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.
- ☐ Z-45/25 RT and Z-45/25J RT models with air-filled tires: Check 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.

## Inspections

- 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 beacon (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 will shut off after 2 to 3 seconds.
- 6 Pull out the red Emergency Stop button to the on position and restart the engine.

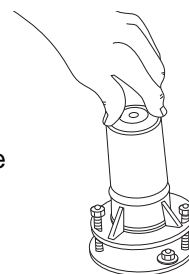
### Test the Machine Functions

- 7 Do not hold the function enable switch to either side. Attempt to activate each boom and platform function toggle switch.
- ⦿ Result: All boom and platform functions should not operate.
- 8 Hold the function enable switch to either side 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 Turn the key switch to platform control. Pull out the platform red Emergency Stop button to the on position.
- 10 Open the engine side turntable cover and locate the tilt sensor to the right of the hydraulic pump.
- 11 Press down one side of the tilt sensor.
- ⦿ Result: The alarm, located in the platform, should sound.



### Test Auxiliary 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 auxiliary 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.



## Inspections

### At the Platform Controls

#### Test Emergency Stop

- 15 Turn the key switch to platform control and restart the engine.
- 16 Push in the platform red Emergency Stop button to the off position.
  - ⦿ Result: The engine will shut off after 2 or 3 seconds.
- 17 Pull out the red Emergency Stop button and restart the engine.

#### Test the Horn

- 18 Push the horn button.
  - ⦿ Result: The horn should sound.

#### Test the Foot Switch

- 19 Push in the platform red Emergency Stop button to the off position.
- 20 Pull out the red Emergency Stop button to the on position but do not start the engine.
- 21 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.
- 22 Do not press down the foot switch and restart the engine.
  - ⦿ Result: The engine should start.
- 23 Do not press down the foot switch and test each machine function.
  - ⦿ Result: The machine functions should not operate.

#### Test Machine Functions

- 24 Press down the foot switch.
- 25 Activate each machine function control handle or toggle switch.
  - ⦿ Result: All boom/platform functions should operate through a full cycle.

#### Test the Steering

- 26 Press down the foot switch.
- 27 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 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.
- 28 Press the thumb rocker switch on top of the drive control handle in the direction indicated by the yellow triangle on the control panel OR slowly move the control 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.

## Inspections

### Test Drive and Braking

29 Press down the foot switch.

30 Slowly move the drive 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.

31 Slowly move the drive 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.

### Test the Drive Enable System

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

33 Rotate the turntable until the primary 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.



34 Move the drive control handle off center.

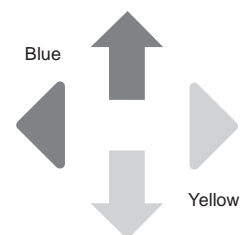
⦿ Result: The drive function should not operate.

35 Move and hold the drive enable toggle switch to either side and slowly move the drive 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.



## Inspections

### Test Limited Drive Speed - Standard Base Models

- 36 Press down the foot switch.
- 37 Raise the primary boom approximately 2 feet / 61 cm.
- 38 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the primary boom raised should not exceed 1 foot / 30 cm per second.
- 39 Lower the primary boom to the stowed position.
- 40 Raise the secondary boom approximately 2 feet / 61 cm.
- 41 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the secondary boom raised should not exceed 1 foot / 30 cm per second.
- 42 Lower the secondary boom to the stowed position.
- 43 Extend the primary boom approximately 1 foot / 30 cm.
- 44 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the primary boom extended should not exceed 1 foot / 30 cm per second.
- 45 Retract the boom to the stowed position.

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

### Test Limited Drive Speed - Narrow Base Models

- 36 Press down the foot switch.
- 37 Raise the primary boom approximately 2 feet / 61 cm.
- 38 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the primary boom raised should not exceed 6 in / 15 cm per second.
- 39 Lower the primary boom to the stowed position.
- 40 Raise the secondary boom approximately 2 feet / 61 cm.
- 41 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the secondary boom raised should not exceed 6 in / 15 cm per second.
- 42 Lower the secondary boom to the stowed position.
- 43 Extend the primary boom approximately 1 foot / 30 cm.
- 44 Slowly move the drive control handle to the full drive position.
- ⊙ Result: The maximum achievable drive speed with the primary boom extended should not exceed 6 in / 15 cm per second.
- 45 Retract the boom to the stowed position.

If the drive speed with the primary boom raised, the secondary boom raised or the primary boom extended exceeds 6 in / 15 cm per second, immediately tag and remove the machine from service.

## Inspections

### Test the Oscillate Axle (oscillating axle-equipped models)

- 46 Start the engine from the platform controls.
- 47 Drive the right steer tire up onto a 6 inch / 15 cm block or curb.
- ⦿ Result: The three remaining tires should stay in firm contact with the ground.
- 48 Drive the left steer tire up onto a 6 inch / 15 cm block or curb.
- ⦿ Result: The three remaining tires should stay in firm contact with the ground.
- 49 Drive both steer tires up onto a 6 inch / 15 cm block or curb.
- ⦿ Result: The non-steer tires should stay in firm contact with the ground.

### Test Auxiliary Controls

- 50 Shut the engine off.
- 51 Pull out the red Emergency Stop button to the on position.
- 52 Press down the foot switch.
- 53 Simultaneously hold the auxiliary 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 auxiliary power.

### Test the Lift/Drive Select Function (if equipped)

- 54 Press down the foot switch.
- 55 Move the drive control handle off center and activate a boom function toggle switch.
- ⦿ Result: No boom functions should operate. The machine will move in the direction indicated on the control panel.
- 56 Repair any malfunctions before operating the machine.

### Test Aircraft Protection Package (if equipped)

- 57 Move the gray bumper at the bottom of the platform 4 inches / 10 cm in any direction.
- 58 Activate each function control handle or toggle switch.
- ⦿ Result: All boom and steer functions should not operate.
- 59 Move the function override switch to either side.
- 60 Activate each function control handle or toggle switch.
- ⦿ Result: All boom and steer functions should operate.

## 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.

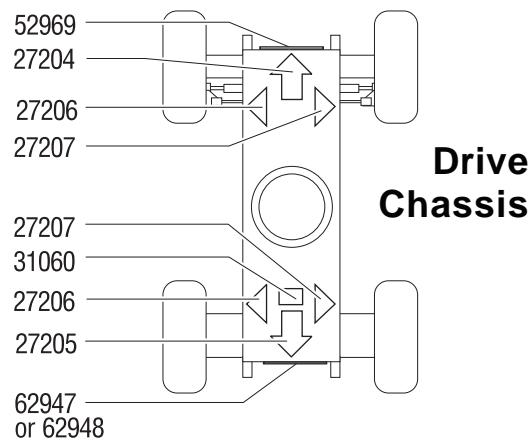
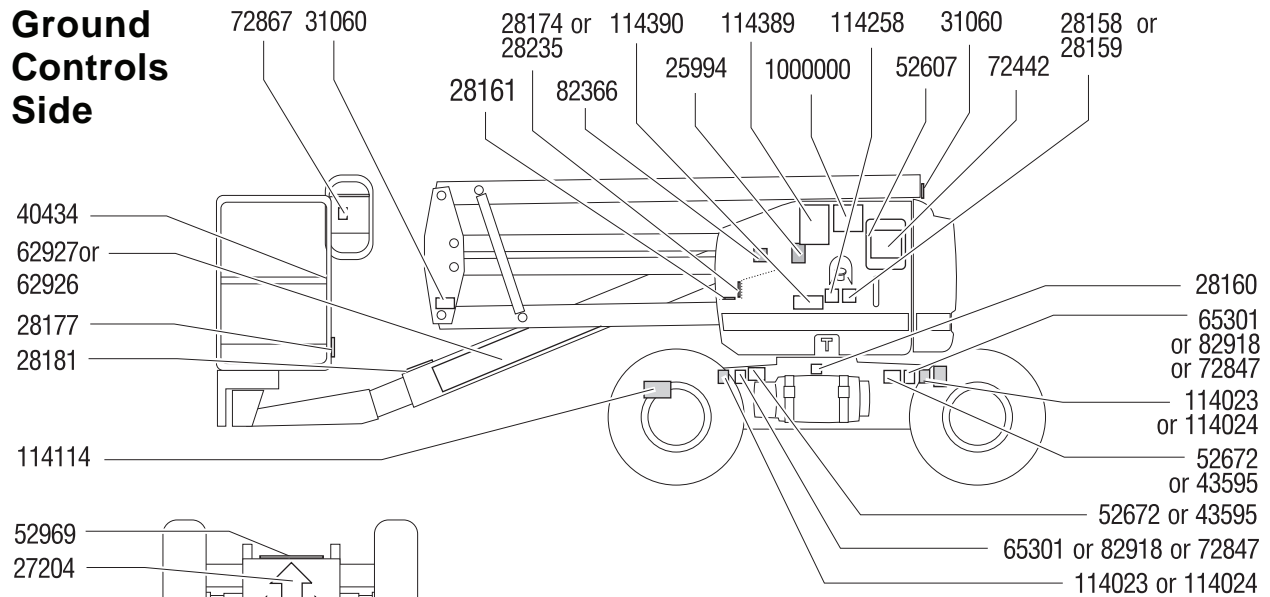
Part No.	Decal Description	Quantity
25994	Notice - Component Damage Hazard	1
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle - Blue	2
27207	Triangle - Yellow	2
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas	2
28161	Warning - Crushing Hazard	1
28165	Instructions - Foot Switch	1
28174	Label - Power to Platform, 230V	2
28175	Caution - Compartment Access	1
28176	Instructions - Missing Manuals	1
28177	Warning - Platform Rotate	2
28181	Warning - No Step or Ride	1
28235	Label - Power to Platform, 115V	2
28236	Warning - Improper Use	1
30080	Instructions - Maximum Load, 500 lbs / 227 kg	1
31060	Danger - Tip-over Hazard, Interlock	3
32728	Label - Generator (option)	1
40434	Label - Lanyard Anchorage Point	3
43595	Danger - Tip-over Hazard, Tires	4
44248	Instructions - Maximum Load, 440 lbs / 200kg	1
44981	Label - Air Line to Platform (option)	2
44986	Instructions - Max Manual Force, 90 lbs / 400N	1
46468	Label - Function Override (Aircraft Protection Package)	1

Part No.	Decal Description	Quantity
52607	Label - Test Switch	1
52672	Danger - Tip-over Hazard, Tires	4
52968	Cosmetic - Genie Boom	1
62926	Cosmetic - Genie Z-45/25J	1
62927	Cosmetic - Genie Z-45/25	1
62947	Cosmetic - IC Power 4 x 2	1
62948	Cosmetic - IC Power 4 x 4	1
65301	Instructions - Foam-Filled Tire Specs	4
72442	Ground Control Panel	1
72847	Instructions - Hi-Flotation Tire Specs	4
82238	Platform Control Panel	1
82366	Label - Chevron Rykon	1
82644	Instructions - Perkins Engine Specifications	1
82918	Instructions - Tire Specifications	4
97548	Instructions - Deutz Engine Specifications	1
97602	Warning - Explosion Hazard	1
97887	Instructions - Max Side Force, 150 lbs / 667N	1
114023	Label - Wheel Load, Z-45/25	4
114024	Label - Wheel Load, Z-45/25J	4
114114	Label - Transport Diagram	2
114169	Instructions - Ford Engine Specifications	1
114258	Label - Explosion Hazard	1
114277	Label - Belt Routing	1
114389	Danger - Safety Rules	2
114390	Danger - Electrocution Hazard	2
114397	Danger - Tilt-Alarm	1
1000000	Instructions - Operating Instructions	2

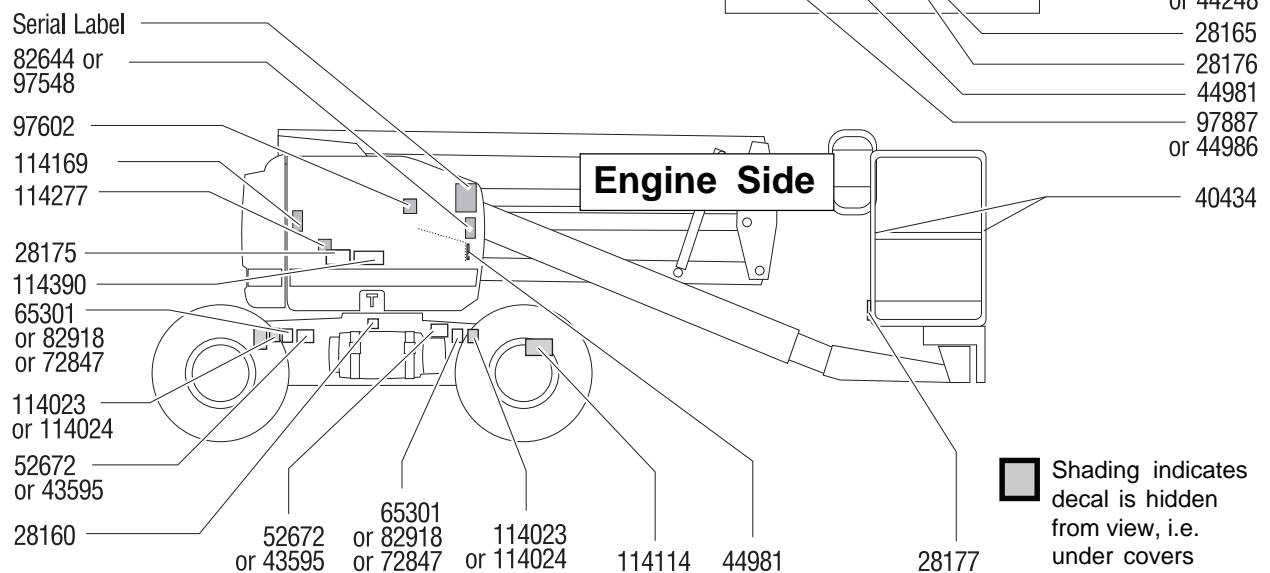
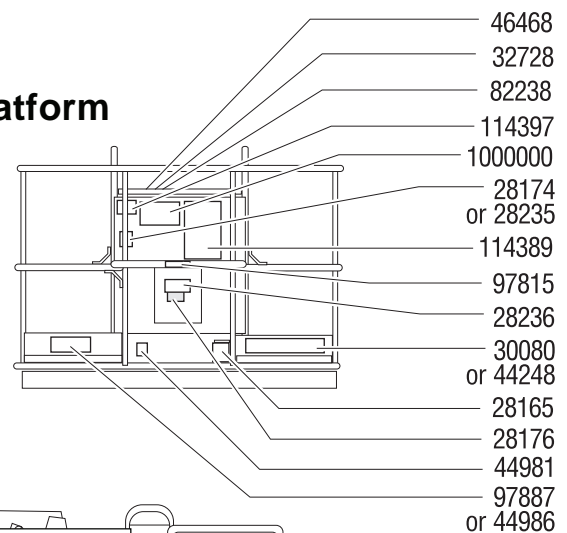



## Inspections

### Ground Controls Side



### Platform



 Shading indicates decal is hidden from view, i.e. under covers

**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.

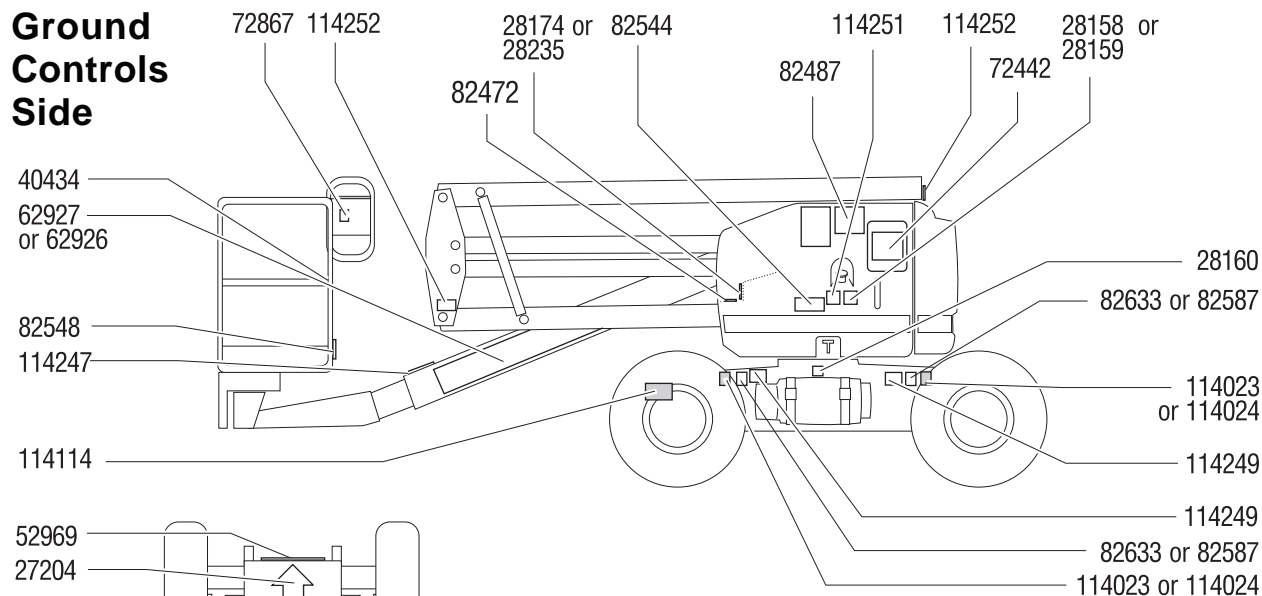
Part No.	Decal Description	Quantity
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle - Blue	2
27207	Triangle - Yellow	2
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas	1
28174	Label - Power to Platform, 230V	2
28235	Label - Power to Platform, 115V	2
32728	Label - Generator (option)	1
40434	Label - Lanyard Anchorage	3
44981	Label - Air Line to Platform	2
52969	Cosmetic - Genie Boom	1
62926	Cosmetic - Genie Z-45/25J	1
62927	Cosmetic - Genie Z-45/25	1
62947	Cosmetic - IC Power 4 x 2	1
62948	Cosmetic - IC Power 4 x 4	1
72442	Ground Control Panel	1
82238	Platform Control Panel	1
82472	Label - Crushing Hazard	1
82473	Label - Compartment Access	1

Part No.	Decal Description	Quantity
82487	Label - Read the Manual	2
82544	Label - Electrocution Hazard	2
82548	Label - Platform Rotate	2
82587	Label - Tire Pressure, High Flotation Tires	4
82601	Label - Maximum Load, 227 kg	1
82602	Label - Max Manual Force, 667 N	1
82612	Label - Maximum Load, 200 kg	1
82633	Label - Tire Pressure, RT Tires	4
82646	Label - Drive Enable Patch	1
97815	Label - Lower Mid-rail	1
114023	Label - Wheel Load, Z-45/25	4
114024	Label - Wheel Load, Z-45/25J	4
114114	Label - Transport Diagram	2
114247	Label - Fall Hazard	1
114248	Label - Tip-over Hazard, Tilt Alarm	1
114249	Label - Tip-over Hazard, Tires	4
114251	Label - Explosion Hazard	1
114252	Label - Tip-over Hazard, Limit Switches	3

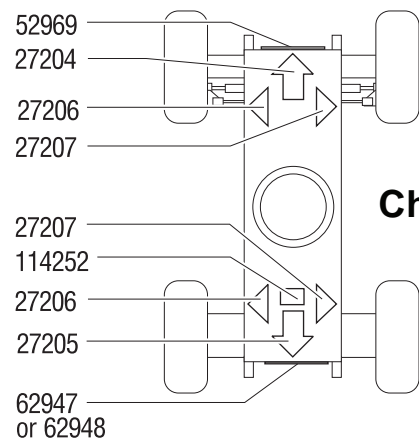


## Inspections

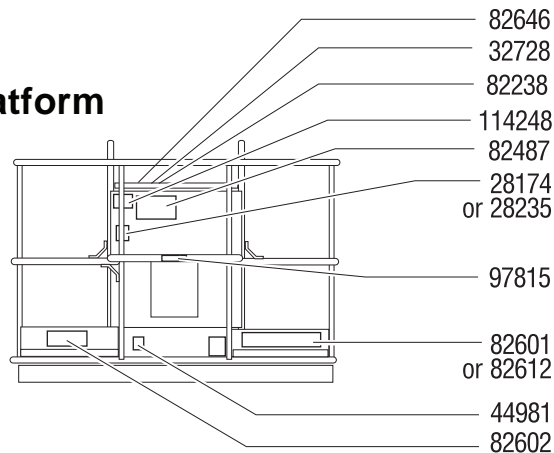
### Ground Controls Side



### Drive Chassis

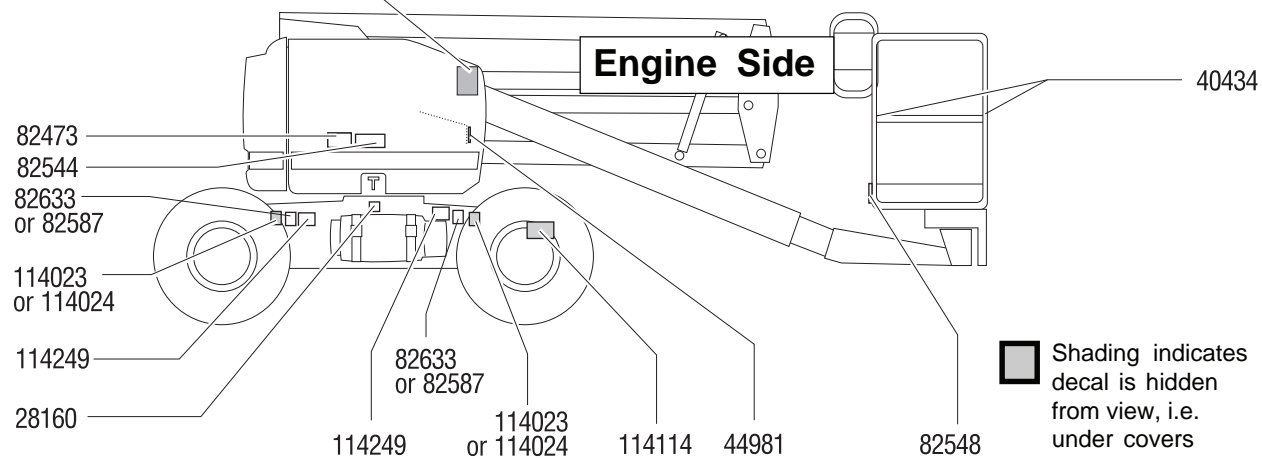



### Platform



Serial Label

### Engine Side



 Shading indicates decal is hidden from view, i.e. under covers

**Genie**  
A TEREX COMPANY

## 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 both ground and platform control red Emergency Stop buttons are 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 Move the glow plug switch 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 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 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.

### Auxiliary Controls

Use auxiliary 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 auxiliary controls from the platform.
- 4 Simultaneously hold auxiliary power switch on and activate the desired function.



The drive and steer functions will not operate with auxiliary 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 Hold the function enable switch to either side.
- 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 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 triangles 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 control handle off center.  
  
Decrease speed: Slowly move the drive control handle toward center.  
  
Stop: Return the drive 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 booms are raised.

## 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:  
25% (14°)



Maximum side slope rating:  
25% (14°)

Note: Slope rating is subject to ground conditions and adequate traction. The term gradeability applies to the platform downhill 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 the 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.

### Drive Speed Select



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

### Engine Idle Select (rpm)

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

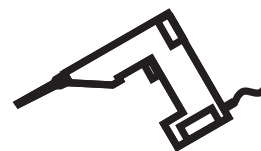
- Turtle symbol: Foot switch activated low idle
- Rabbit symbol: Foot switch activated high idle



### Generator (if equipped)

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

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



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

Note: Machine functions will not operate while the generator is running and the foot switch is not pressed down. When the foot switch is pressed down, the generator will turn off and the machine functions will operate.

### Machine Not Level Indicator Light (if equipped)



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

## Operating Instructions

### Check Engine Light (if equipped)



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

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

### 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.

Move the function override toggle switch to either side to operate the machine.

### 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.

## 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 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. See the Specifications section for the slope ratings.

### Free-wheel Configuration for Winching

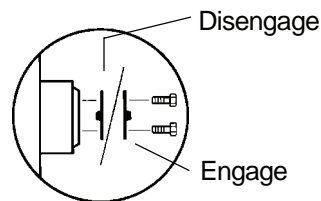
Chock the wheels to prevent the machine from rolling.

Release the non-steer wheel brakes by turning over the drive hub disconnect caps (see below).

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-45/25 or the Z-45/25J is not recommended. If the machine must be towed, do not exceed 2 mph / 3.2 km/h.

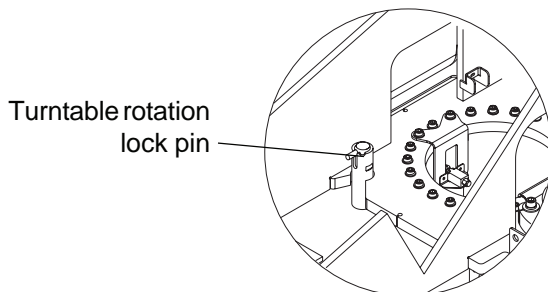




## Transport and Lifting Instructions

### ⚠ 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.

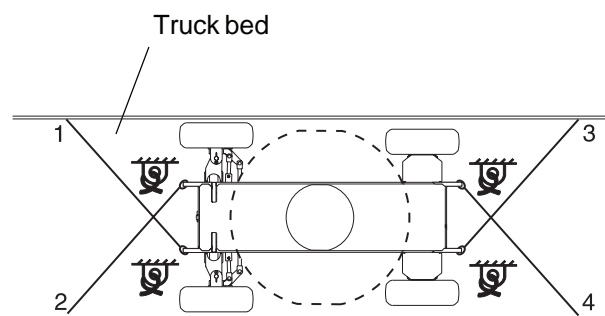
Inspect the entire machine for loose or unsecured items.

#### Securing the Chassis

Use chains of ample load capacity.

Use a minimum of 4 chains.

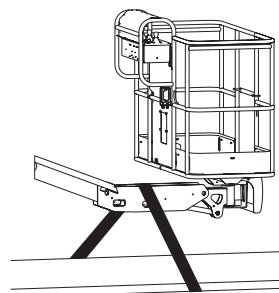
Adjust the rigging to prevent damage to the chains.



#### Securing the Platform - Z-45/25

Make sure the platform is in the stowed position.

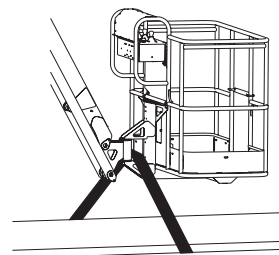
Secure the platform with a nylon strap placed over the platform mount near the platform rotator (see below). Do not use excessive downward force when securing the boom section.



#### Securing the Platform - Z-45/25J

Make sure the jib and platform are in the stowed position.

Secure the platform with a nylon strap placed over the platform mount near the platform rotator (see below). 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

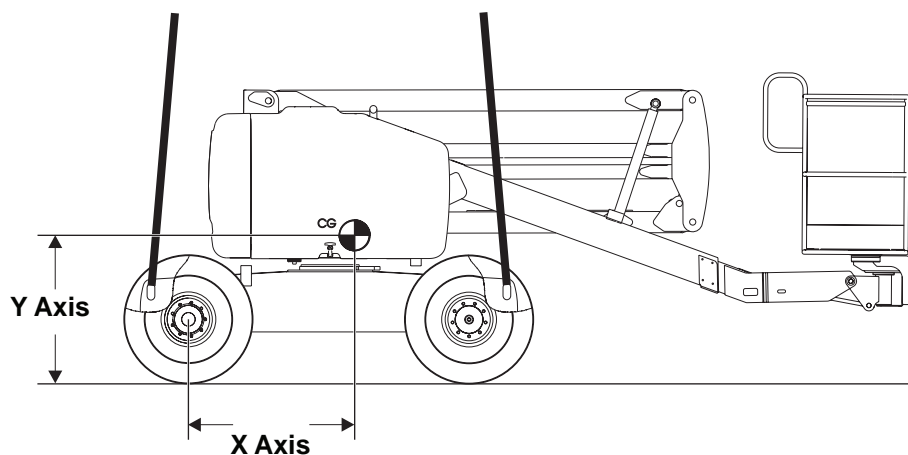
Fully lower and retract the boom. Fully lower the jib (if equipped). Remove all loose items on the machine.

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

Attach the rigging only to the designated lifting points on the machine. There are four lifting points on the chassis.

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

	X Axis	Y Axis
<b>Z-45/25</b>	47 in 1.19 m	42 in 1.06 m
<b>Z-45/25J</b>	49 in 1.24 m	44.5 in 1.13 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.
- ☑ Use only Genie approved replacement parts.

### Maintenance Symbols Legend

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



Indicates that tools will be required to perform this procedure.



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



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 Remove the safety pin from the engine pivot plate latch.

The engine pivot plate latch is located under the engine turntable pivot plate at the counterweight end of the machine.

- 2 Open the engine pivot plate latch and swing the engine pivot plate out and away from the machine.
- 3 Check the oil dipstick. Add oil as needed.
- 4 Swing the engine back to its original position and close the engine pivot plate latch.
- 5 Install the engine pivot plate safety pin.

#### Perkins 404C-22 Engine

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

#### Ford DSG-423 EFI Engine (EPA Compliant)

Oil type	5W-20
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#### Deutz F3L 2011 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. The hydraulic oil level should be within the top 2 inches / 5 cm of the sight gauge.
- 2 Add oil as needed.

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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 - Ford and Perkins 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. The fluid level should be at the FULL mark.
- 2 Add fluid as needed.

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 bracket is secure.
- 4 Remove the battery vent caps.
- 5 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
- 6 Install the vent caps.

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

### Check the Tire Pressure



- ⚠ **Tip-over hazard.** An over-inflated tire can explode which may compromise machine stability and cause the machine to tip over.
- ⚠ **Tip-over hazard.** The use of temporary flat tire repair products may lead to tire failure which could compromise machine stability and cause the machine to tip over.
- ⚠ **Bodily injury hazard.** An over-inflated tire can explode and may cause death or serious injury.

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

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

Tire specifications	2WD Models	4WD Models
Narrow base models Industrial tire	Foam-filled Only	
Models with Aircraft Protection Package	Foam-filled Only	Foam-filled Only
Standard base models Industrial tire Tire size: 9-14.5 LT	100 psi / 6.9 bar	
Standard base models Rough terrain tire Tire size: 355/55D625 14 ply	50 psi / 3.5 bar	50 psi / 3.5 bar
High flotation tires Tire size: 33/16LL500	38 psi / 2.6 bar	38 psi / 2.6 bar

## Maintenance

### 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

Standard Base Models	Z-45/25 (no jib)	
Height, working maximum	51 ft 11 in	16 m
Height, platform maximum	45 ft 11 in	14 m
Height, stowed maximum	6 ft 11 in	2.11 m
Horizontal reach maximum	125 ft	17.62 m
Width	7 ft 6 in	2.29 m
Length, stowed	18 ft 3 in	5.56 m
Maximum load capacity	500 lbs	227 kg
Maximum load capacity Models with Aircraft Protection Package	440 lbs	200 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	6 ft 8 in	2.0 m
Turning radius (outside)	14 ft 9 in	4.5 m
Turning radius (inside)	5 ft 6 in	1.7 m
Turntable rotation		355°
Turntable tailswing	0 in	0 cm
Drive speed, stowed	5 mph 40 ft/5.5 sec	8.0 km/h 12.2 m/5.5 sec
Drive speed, booms raised	0.6 mph 40 ft/45 sec	1 km/h 12.2 m/45 sec
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)		73 dB
Ground clearance, center	15.5 in	39.4 cm
Ground clearance, minimum	11.5 in	29.2 cm
Controls	12V DC proportional	
Weight (Machine weights vary with option configurations)	See Serial Label	
Platform dimensions, 6 foot (length x width)	72 in x 30 in 1.8 m x 76 cm	
Platform leveling	self-leveling	
Platform rotation	180 degrees	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	3200 psi	221 bar
System voltage	12V	
Tire size, 4WD & 2WD RT	355/55 D625	
Tire size, High Flotation	33/16LL 500, 10 ply	

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

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

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

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

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

Fuel tank capacity	17 gallons	64.4 liters
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### Floor loading information

Tire load, maximum	8000 lbs	3629 kg
Tire contact pressure	50 psi	3.51 kg/cm <sup>2</sup> 345 kPa
Occupied floor pressure (2WD)	187 psf	913 kg/m <sup>2</sup> 8.95 kPa
Occupied floor pressure (4WD)	190 psf	928 kg/m <sup>2</sup> 9.10 kPa

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

<sup>1</sup> Outreach specification with platform rotated 90 degrees

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



## Specifications

Standard Base Models		Z-45/25J (jib)
Height, working maximum	52 ft 2 in	16.07 m
Height, platform maximum	46 ft 2 in	14.07 m
Height, stowed maximum	6 ft 11 in	2.1 m
Horizontal reach maximum	25 ft 1 in	7.6 m
Width	7 ft 6 in	2.29 m
Length, stowed	22 ft 5 in	6.83 m
Maximum load capacity	500 lbs	227 kg
Maximum load capacity Models with Aircraft Protection Package	440 lbs	200 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	6 ft 8 in	2.0 m
Turning radius (outside)	14 ft 9 in	4.5 m
Turning radius (inside)	5 ft 6 in	1.7 m
Turntable rotation		355°
Turntable tailswing	0 in	0 cm
Drive speed, stowed	5 mph 40 ft/5.5 sec	8.0 km/h 12.2 m/5.5 sec
Drive speed, booms raised	0.6 mph 40 ft/45 sec	1 km/h 12.2 m/45 sec
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)		73 dB
Ground clearance, center	15.5 in	39.4 cm
Ground clearance, minimum	11.5 in	29.2 cm
Controls	12V DC proportional	
Weight (Machine weights vary with option configurations)	See Serial Label	
Platform dimensions, 6 foot (length x width)	72 in x 30 in 1.8 m x 76 cm	
Platform leveling	self-leveling	
Platform rotation	160 degrees	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	3200 psi	221 bar
System voltage	12V	
Tire size, 4WD & 2WD RT	355/55 D625	
Tire size, High Flotation	33/16LL 500, 10 ply	

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

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

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

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

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

Fuel tank capacity	17 gallons	64.4 liters
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### Floor loading information

Tire load, maximum	8800 lbs	3992 kg
Tire contact pressure	50 psi	3.51 kg/cm <sup>2</sup> 345 kPa
Occupied floor pressure (2WD)	196 psf	957 kg/m <sup>2</sup> 9.38 kPa
Occupied floor pressure (4WD)	198 psf	967 kg/m <sup>2</sup> 9.48 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

Narrow Base Models		Z-45/25 (no jib)
Height, working maximum	51 ft 6 in	15.9 m
Height, platform maximum	45 ft 6 in	13.9 m
Height, stowed maximum	6 ft 7 in	2.05 m
Horizontal reach maximum	125 ft	17.62 m
Width	5 ft 10.3 in	1.79 m
Length, stowed	18 ft 3 in	5.56 m
Maximum load capacity	500 lbs	227 kg
Maximum load capacity Models with Aircraft Protection Package	440 lbs	200 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	6 ft 8 in	2.0 m
Turning radius (outside)	14 ft	4.3 m
Turning radius (inside)	6 ft	1.8 m
Turntable rotation		355°
Turntable tailswing	0 in	0 cm
Drive speed, stowed	5 mph 40 ft/5.5 sec	8.0 km/h 12.2 m/5.5 sec
Drive speed, booms raised	0.4 mph 40 ft/68 sec	0.64 km/h 12.2 m/68 sec
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)		73 dB
Ground clearance, center	9.5 in	24.1 cm
Ground clearance, minimum	7.5 in	19.1 cm
Controls	12V DC proportional	
Weight (Machine weights vary with option configurations)	See Serial Label	
Platform dimensions, 6 foot (length x width)	72 in x 30 in 1.8 m x 76 cm	
Platform leveling	self-leveling	
Platform rotation	180 degrees	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	3200 psi	221 bar
System voltage	12V	
Tire size, 2WD Industrial Foam-filled only	9-14.5 LT	

### Maximum slope rating, stowed position

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

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

Fuel tank capacity	17 gallons	64.4 liters
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### Floor loading information

Tire load, maximum	8000 lbs	3629 kg
Tire contact pressure	100 psi	7.03 kg/cm <sup>2</sup> 689 kPa
Occupied floor pressure	324 psf	1582 kg/m <sup>2</sup> 15.51 kPa

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

- <sup>1</sup> Outreach specification with platform rotated 90 degrees

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## Specifications

Narrow Base Models		Z-45/25J (jib)
Height, working maximum	51 ft 9 in	15.9 m
Height, platform maximum	45 ft 9 in	13.9 m
Height, stowed maximum	6 ft 7 in	2.0 m
Horizontal reach maximum	25 ft 1 in	7.7 m
Width	5 ft 10.3 in	1.79 m
Length, stowed	22 ft 5 in	6.8 m
Maximum load capacity	500 lbs	227 kg
Maximum load capacity Models with Aircraft Protection Package	440 lbs	200 kg
Maximum wind speed	28 mph	12.5 m/s
Wheelbase	6 ft 8 in	2.0 m
Turning radius (outside)	14 ft	4.3 m
Turning radius (inside)	6 ft	1.8 m
Turntable rotation		355°
Turntable tailswing	0 in	0 cm
Drive speed, stowed	5 mph 40 ft/5.5 sec	8.0 km/h 12.2 m/5.5 sec
Drive speed, booms raised	0.4 mph 40 ft/68 sec	0.64 km/h 12.2 m/68 sec
Airborne noise emissions Maximum sound level at normal operating workstations (A-weighted)		73 dB
Ground clearance, center	9.5 in	24.1 cm
Ground clearance, minimum	7.5 in	19.1 cm
Controls	12V DC proportional	
Weight (Machine weights vary with option configurations)	See Serial Label	
Platform dimensions, 6 foot (length x width)	72 in x 30 in 1.8 m x 76 cm	
Platform leveling	self-leveling	
Platform rotation	160 degrees	
Vibration value does not exceed 2.5 m/s <sup>2</sup>		

AC outlet in platform	standard	
Hydraulic pressure, maximum (boom functions)	3200 psi	221 bar
System voltage	12V	
Tire size, 2WD Industrial Foam-filled only	9-14.5 LT	

### Maximum slope rating, stowed position

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

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

Fuel tank capacity	17 gallons	64.4 liters
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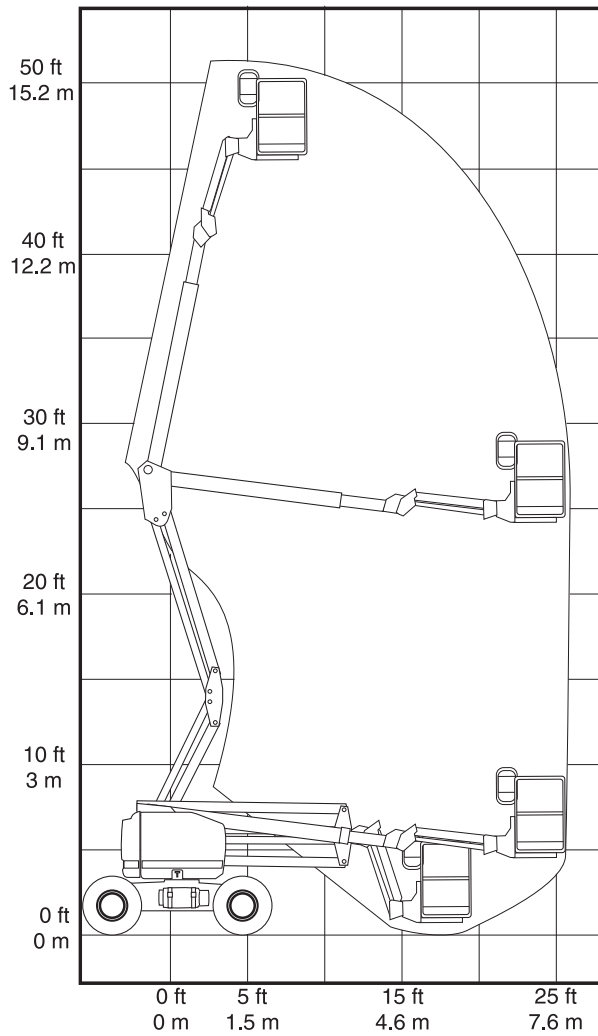
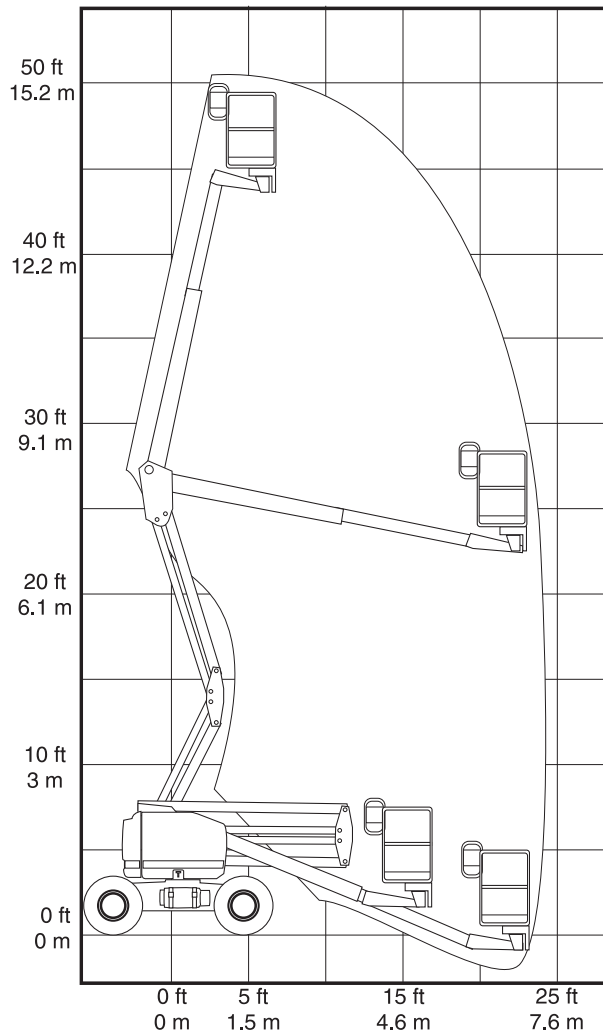
### Floor loading information

Tire load, maximum	8800 lbs	3992 kg
Tire contact pressure	100 psi	7.03 kg/cm <sup>2</sup> 689 kPa
Occupied floor pressure	328 psf	1601 kg/m <sup>2</sup> 15.70 kPa

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

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## Specifications

**Z-45/25J Range of Motion****Z-45/25 Range of Motion**

California Proposition 65

## Warning

The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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