Genie®
A TEREX COMPANY

Operator's Manual

Z-60/34

AUS
Australia

with
Maintenance
Information

Ninth Edition
First Printing
Part No. 226480

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.

Contents

Contact us:

Internet: www.genielift.com
E-mail: awp.techpub@terex.com

Ninth Edition: First Printing, March 2011

These machines comply with AS1418.10

Printed on recycled paper

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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 common sense 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

E-mail: awp.techpub@terex.com

Danger

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

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.

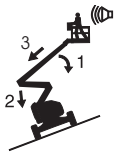
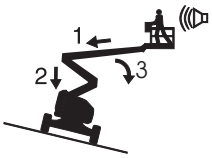
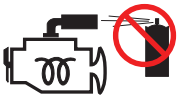
Intended Use

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

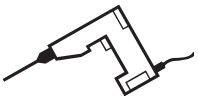
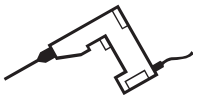
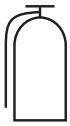
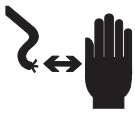
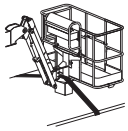
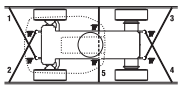
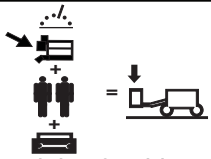
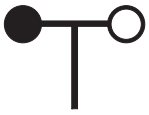
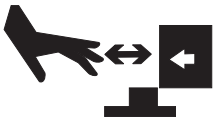
Safety Sign Maintenance

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

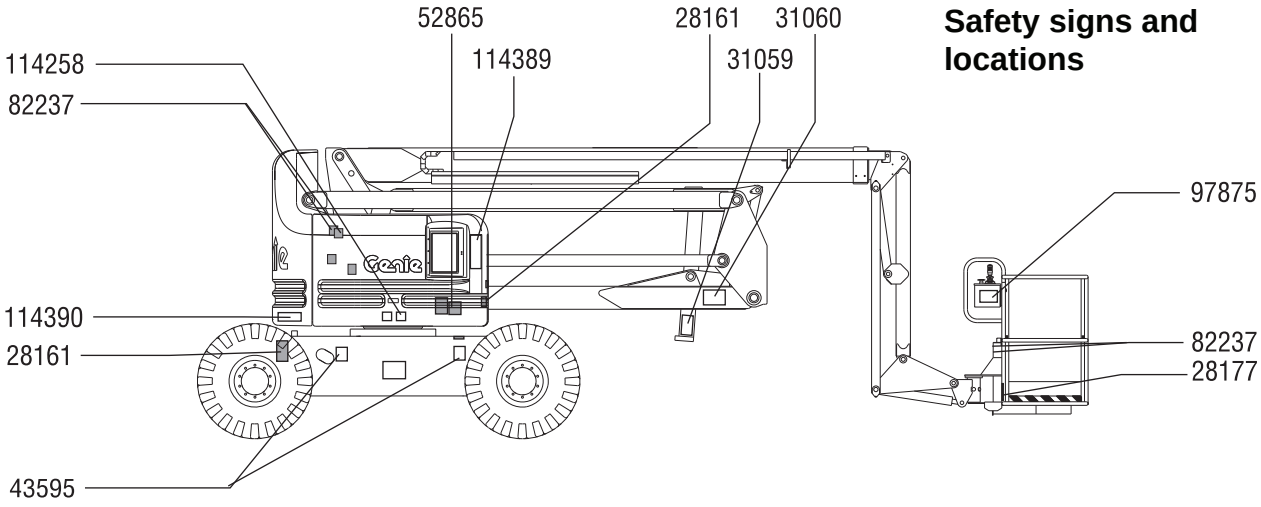
 Crush Hazard	 Explosion Hazard	 Fire Hazard	 Explosion Hazard	 Electrocution Hazard
 Fall Hazard	 Crush Hazard	 Tip-over Hazard	 Tip-over Hazard	 Tip-over Hazard
 Tip-over Hazard	 Tip-over Hazard	 Electrocution Hazard	 Read service manual	 Rated platform capacity
 Keep off this surface.	 Keep away from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

Symbol and Hazard Pictorials Definitions

 Lanyard attachment point	 Wheel load	 Voltage rating for power to platform	 Pressure rating for air line to platform	 Fire extinguisher
 Avoid contact.	 Tie-down instructions	 Tie-down instructions	 Weight of welder reduces capacity	 Wind speed
 Turntable lock can shear.	 Keep away from moving parts.	 Collision hazard	 Keep away from moving parts.	

General Safety

Safety signs and locations



28161

⚠ WARNING

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

Keep away from moving parts.

28161 C

31059

⚠ WARNING

Collision hazard.
Impact from boom may result in serious injury.

Stay clear of moving boom.

31059 B

28177

⚠ WARNING

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

Keep away from path of moving platform.

28177 C

43595

⚠ DANGER

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

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

43595 B

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

The operator is responsible for safe machine operation. This includes:

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

Do not operate unless:

You read, understand and obey:
- manufacturer's instructions and safety rules — safety and operator's manuals and decals
- employer's safety rules
- 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.

Maintain Required Clearance

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

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 on a severe slope.

Do not raise boom when wind speeds may exceed 28 mph / 12.5 m/s.

Do not operate machine in strong or gusty winds. Do not increase surface area of platform or load. 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 side slope rating for the machine.

Use extreme care and slow speeds while driving the machine in stowed 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.

Do not use 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.

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 mid-rail or close the entry gate before operating.

Collision Hazards

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

Check work area for overhead obstructions or other possible hazards.

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

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

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

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

114389 A

114390

⚠ DANGER

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

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

114390 A

Maintain required clearance.

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

82237

⚠ DANGER

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

Avoid contact with energized components.

82237 B

52865

⚠ WARNING

Annual Inspection Record
Failure to complete required inspections could result in death or serious injury.

Scheduled maintenance inspections must be completed as specified in the appropriate service manual.

Use this decal to record the date of the annual inspection, the initials of the inspector and the machine owner.

Use the maintenance inspection report in the service manual for required recordkeeping. Keep records on all inspections for four years.

Maintenance inspections must be completed by a person trained and qualified on the maintenance of this machine.

52865 B

Model	Serial number								
Date of Inspection									
Inspected by									
Machine Owner									

97875

⚠ WARNING

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

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

Turn welding power unit off before connecting leads.

Be sure weld cables are properly connected.

DC weld only: 40V, 300 amp maximum.

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

Turn welding power unit off before connecting leads.

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

97875 A

114258

⚠ DANGER

Burn Hazard
Fuel and fumes can explode and burn.

No smoking. No flame. Stop engine.

STOP

114258 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.

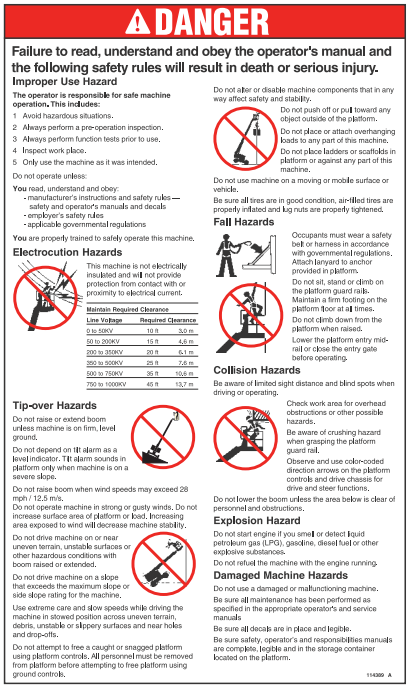
Do not alter or disable limit switch(s).

31060 C

General Safety

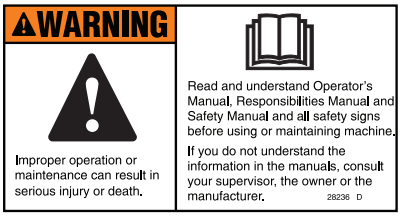
Safety signs and locations

114389



82862

28236



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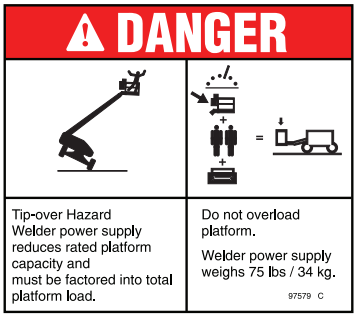

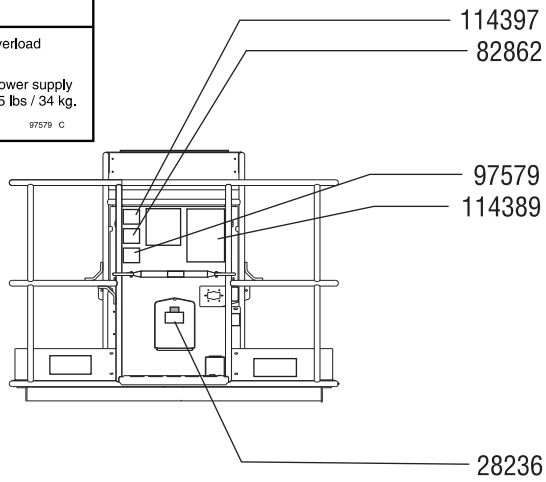

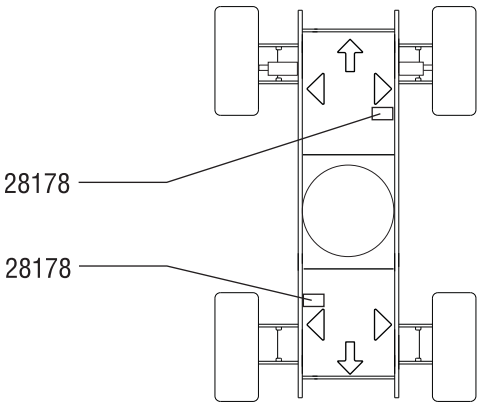

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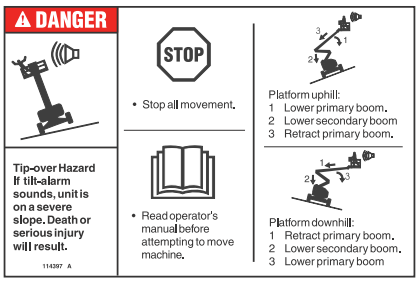


28178

General Safety

Safety signs and locations

28161

⚠ WARNING

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

Keep away from moving parts.
28161 C

31059

⚠ WARNING

Collision hazard.
Impact from boom may result in serious injury.

Stay clear of moving boom.
31059 B

28177

⚠ WARNING

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

Keep away from path of moving platform.
28177 C

31788

⚠ DANGER

Explosion / Burn Hazard
Ignition of explosive gases or contact with corrosive acid will cause death, burns or blindness

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

READ MANUALS
Read all manuals prior to operation.

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

Consult your supervisor, the owner or the manufacturer.
31788 C

43595

⚠ DANGER

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

This machine is equipped with foam-filled tires.
Wheel weight and proper counterweight configuration are critical to stability.
43595 B

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 C

28175

⚠ WARNING

Compartment access is restricted.
Contact with components under any cover may result in serious injury.
28175 H

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.

97875

⚠ WARNING

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

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

Turn welding power unit off before connecting leads.

Be sure weld cables are properly connected.

DC weld only: 40V, 300 amp maximum.

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

Turn welding power unit off before connecting leads.

Connect leads to twist-lock connectors at turntable and platform.
97875 A

28181

⚠ WARNING

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

Keep off this surface.
28181 C

97602

⚠ WARNING

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

Do not use ether or other high energy starting aids on machines equipped with glow plugs.
97602 B

114390

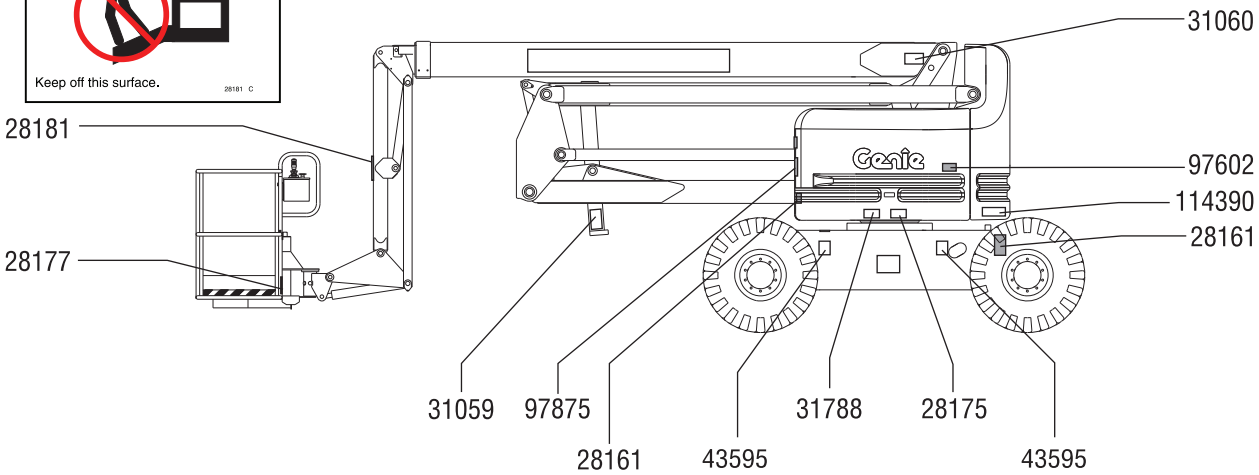
⚠ DANGER

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

Always contact the electric power line owner. The electric power shall be disconnected or the power lines moved or insulated before machine operations begin.
114390 A

Maintain required clearance.

Line Voltage	Required Clearance	
0 to 50KV	10 ft	3,0 m
50 to 200KV	15 ft	4.6 m
200 to 350KV	20 ft	6.1 m
350 to 500KV	25 ft	7.6 m
500 to 750KV	35 ft	10.6 m
750 to 1000KV	45 ft	13.7 m



Personal Safety

Fall Protection

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

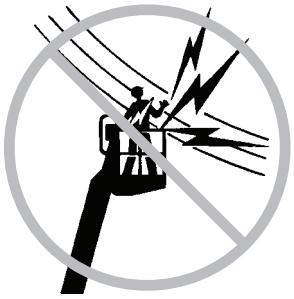
Occupants must wear a safety belt or harness in accordance with governmental regulations. Attach the lanyard to the anchor provided in the platform.

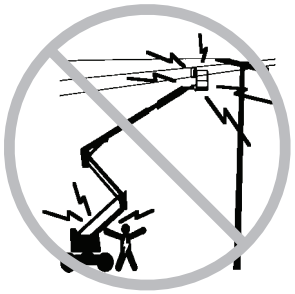
Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.

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

Work Area Safety

⚠ Electrocution Hazards





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

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	3.0 m
50 to 200KV	4.6 m
200 to 350KV	6.1 m
350 to 500KV	7.6 m
500 to 750KV	10.6 m
750 to 1000KV	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

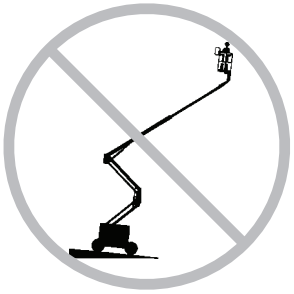
Occupants, equipment and materials shall not exceed the maximum platform capacity.

Maximum platform capacity	227 kg
Maximum occupants	2

The weight of options and accessories, such as pipe 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.

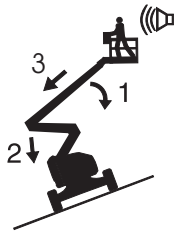
If the tilt alarm sounds when the platform is raised: Use extreme caution. Identify the condition of the boom on the slope as shown below. Follow the steps to lower the boom before moving to a firm, level surface. Do not rotate the boom while lowering.

If the tilt alarm sounds with the platform uphill:

1 Lower the primary boom.

2 Lower the secondary boom.

3 Retract the primary boom.

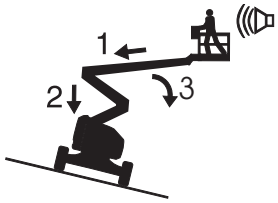


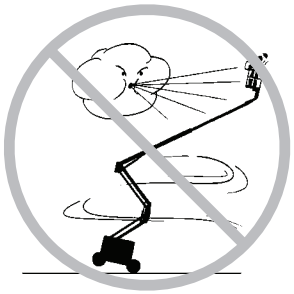
If the tilt alarm sounds with the platform downhill:

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 12.5 m/s. If wind speeds exceed 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.

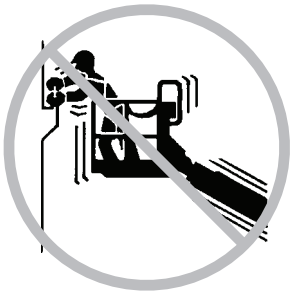
Do not push the machine or other objects with the boom.

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.

Work Area Safety



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

Maximum allowable side force
400 N

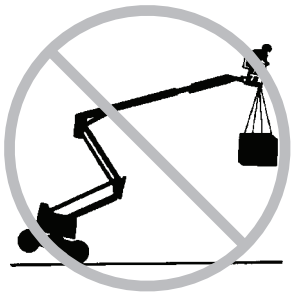
Do not alter or disable machine components that in any way affect safety and stability.

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

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

Do not use air-filled tires. Wheel weight is critical to machine 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.

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 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.

Work Area Safety

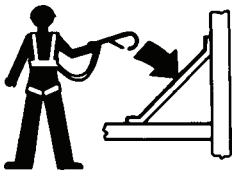
⚠ Operation on Slopes Hazards

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

Maximum slope rating, stowed position, 2WD	
Platform downhill	25% (14°)
Platform uphill	20% (11°)
Side slope	25% (14°)
Maximum slope rating, stowed position, 4WD	
Platform downhill	40% (22°)
Platform uphill	30% (17°)
Side slope	25% (14°)

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

⚠ 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.

Work Area Safety

⚠ 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.

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.

Work Area Safety

⚠ 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.

⚠ Pipe Cradle Safety

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

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

The pipe cradle assembly weighs 9.5 kg.

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

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

Center the load within the perimeter of the platform.

Secure the load to the platform.

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

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

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

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

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

Work Area Safety

⚠ Welder Safety

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

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

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

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

Do not operate the welder unless a fire extinguisher is immediately available for instant use.

⚠ Weld Line to Platform Safety

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

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

Do not operate unless the weld cables are properly connected.

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

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

Lockout After Each Use

1 Select a safe parking location—firm level surface, clear of obstruction and traffic.

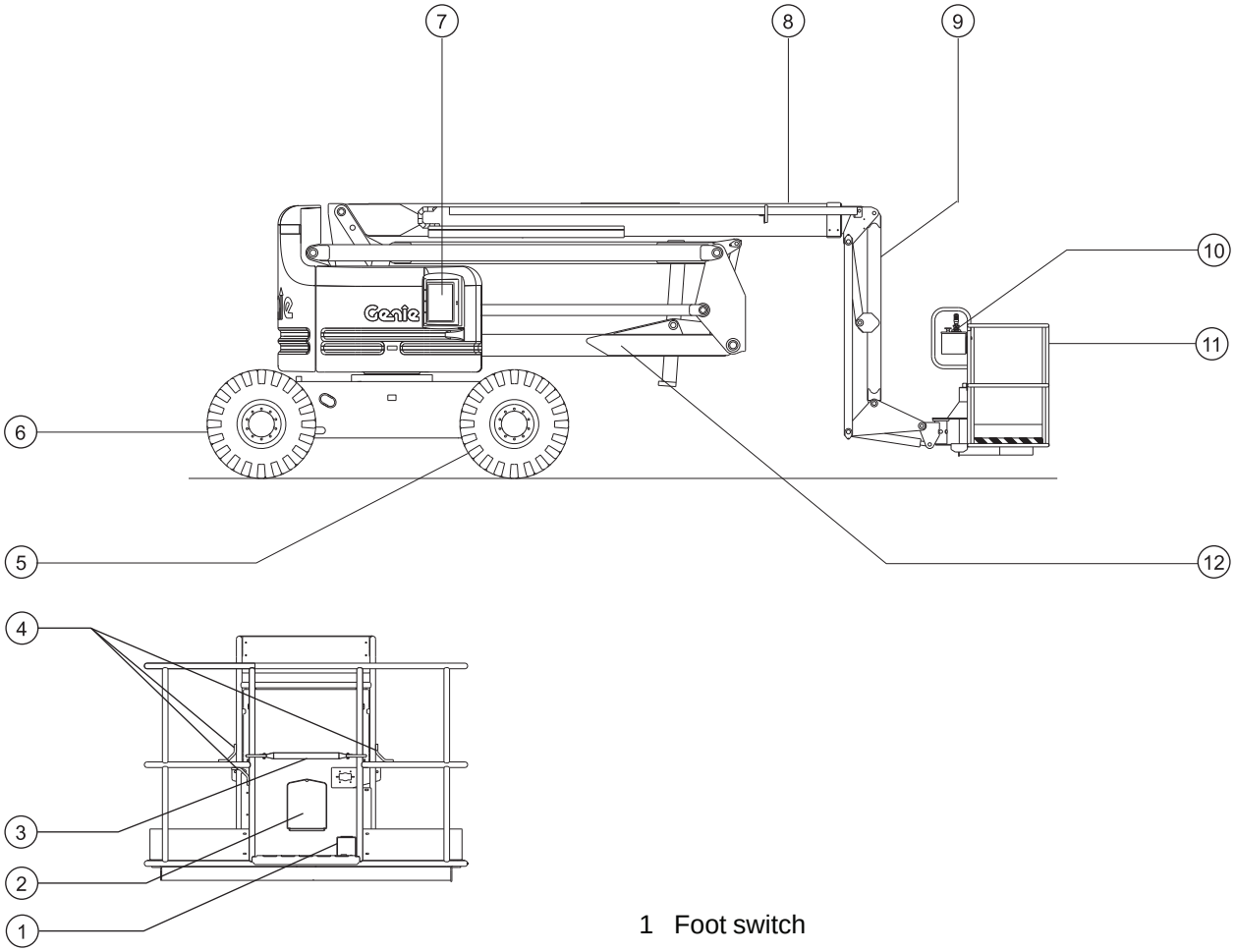
2 Retract and lower the boom to the stowed position.

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.

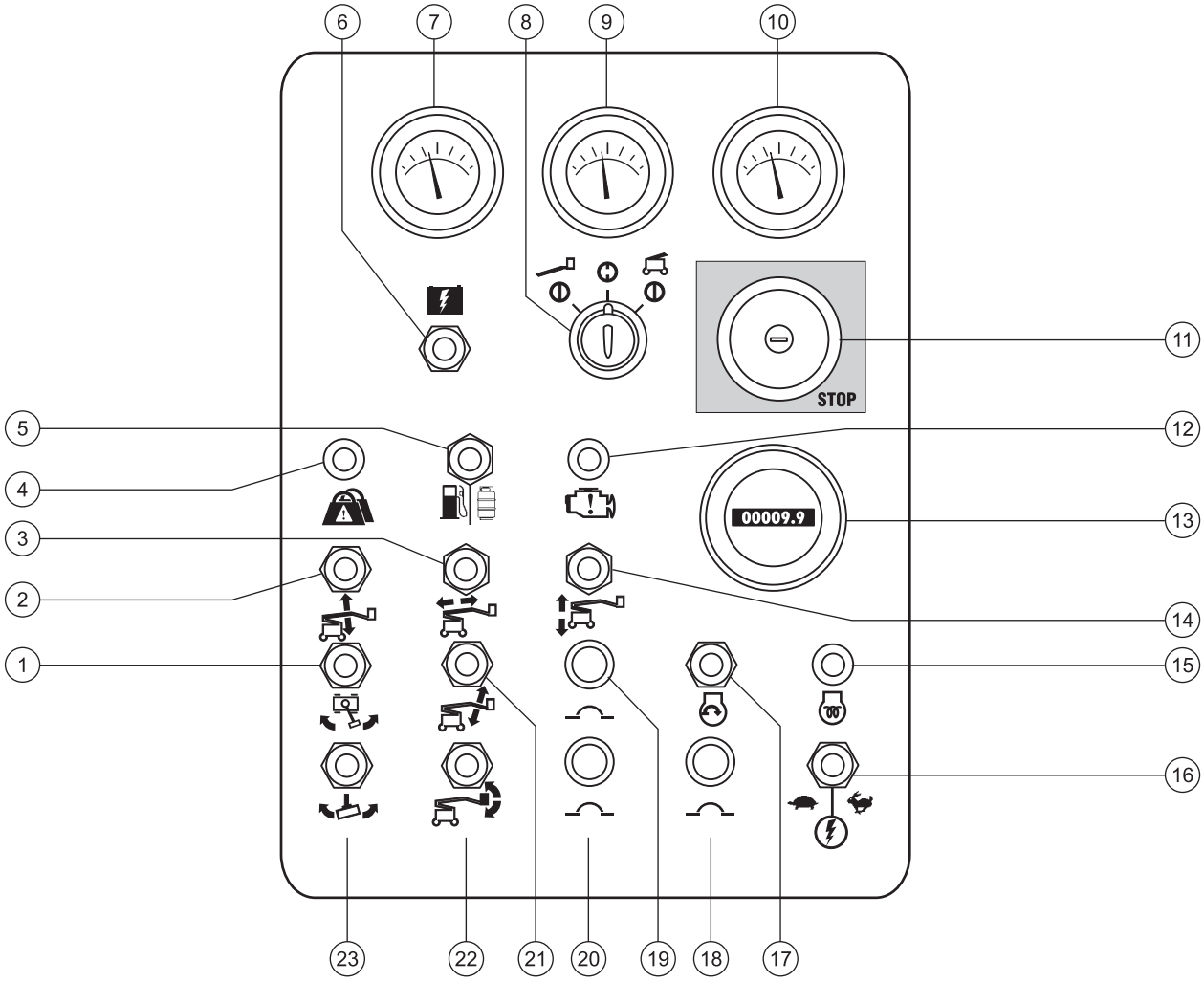
5 Chock the wheels.

Legend



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

Controls



Ground Control Panel

1 Turntable rotate switch
2 Primary boom up/down switch
3 Primary boom extend/retract switch
4 Platform overload indicator light
5 Gasoline/LPG models: Fuel select switch
6 Auxiliary power switch
7 Gasoline/LPG models: Water temperature gauge (option)
Deutz Diesel models: Oil temperature gauge
8 Key switch for platform/off/ground selection
9 Oil pressure gauge (option)
10 Voltage gauge (option)
11 Red Emergency Stop button
12 Gasoline/LPG models: Check engine light
13 Hour meter
14 Secondary boom up/down switch
15 Deutz Diesel models: Glow plug switch (option)
16 Function enable switch
17 Engine start switch
18 15A breaker for engine electrical circuits
19 20A breaker for oil cooler and options
20 15A breaker for control electrical circuits
21 Jib boom up/down switch
22 Platform level switch
23 Platform rotate switch

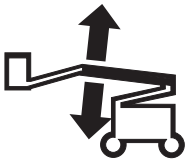
Controls

Ground Control Panel

1 Turntable rotate switch

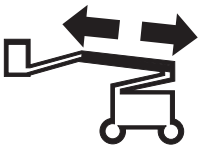
Move the turntable rotate switch to the right and the turntable will rotate to the right. Move the turntable rotate switch to the left and the turntable will rotate to the left.

2 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.

3 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.

4 Platform overload indicator light

Light flashing indicates the platform is overloaded. The engine will shut off and no functions will operate. Remove weight until the light goes off and then restart the engine.

5 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.

6 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.

7 Gasoline/LPG models: Water temperature gauge (option)
Diesel models: Water temperature gauge

8 Key switch for platform/off/ground selection

Turn the key switch to the platform position and the platform controls will operate. Turn the key switch to the off position and the machine will be off. Turn the key switch to the ground position and the ground controls will operate.

9 Oil pressure gauge (option)

10 Voltage gauge (option)

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.

12 Gasoline/LPG models: Check engine light

Light on and engine stopped: Tag the machine and remove from service.
Light on and engine still running: Contact service personnel within 24 hours.

13 Hour meter

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

Controls

14 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.

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 20A circuit breaker for oil cooler and options

20 15A breaker for control electrical circuits

21 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.

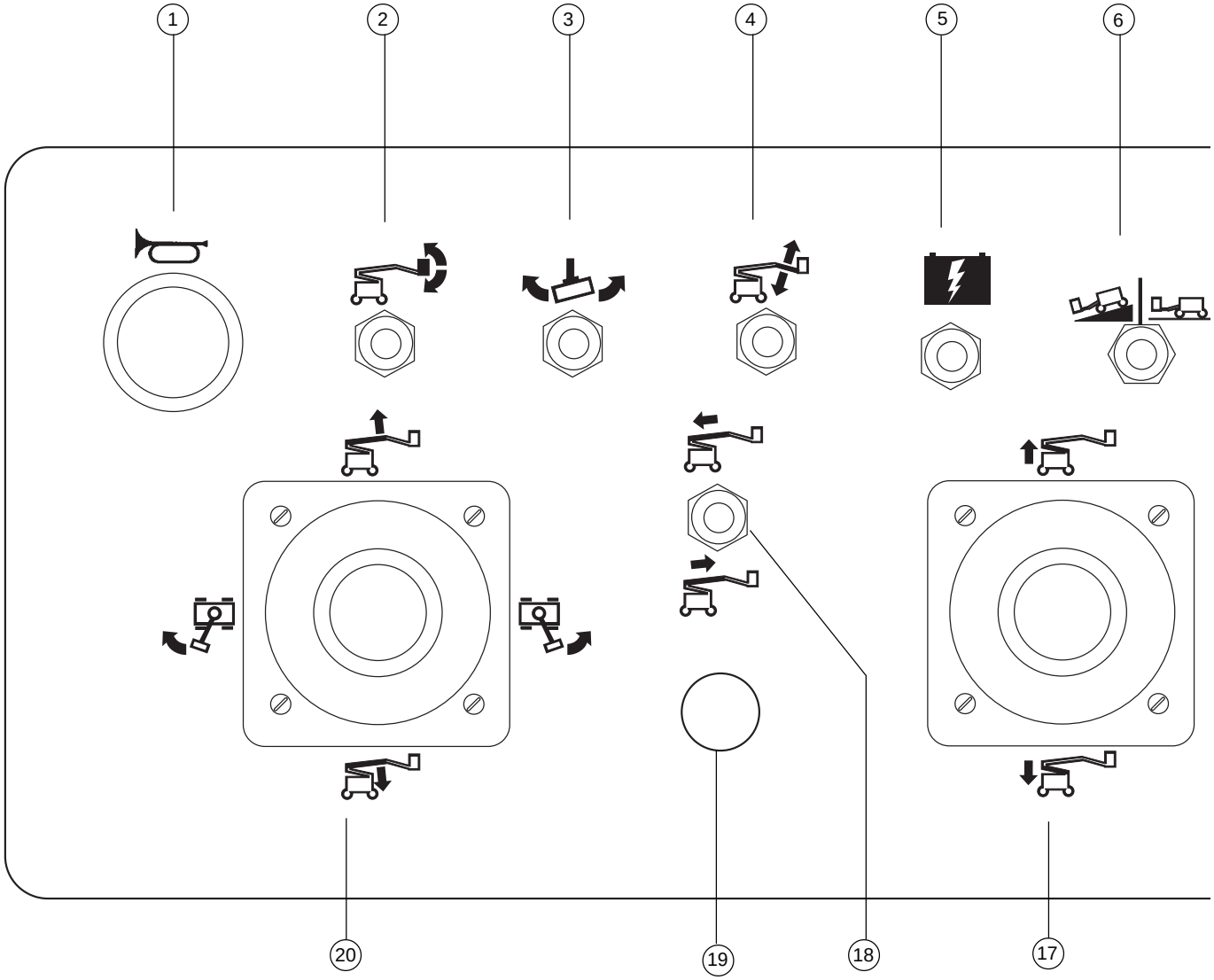
22 Platform level switch

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.

23 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.

Controls



Platform Control Panel

1 Horn button

2 Platform level switch

3 Platform rotate switch

4 Jib boom up/down switch

5 Auxiliary power switch

6 Drive speed select switch

7 Glow plug switch (option)

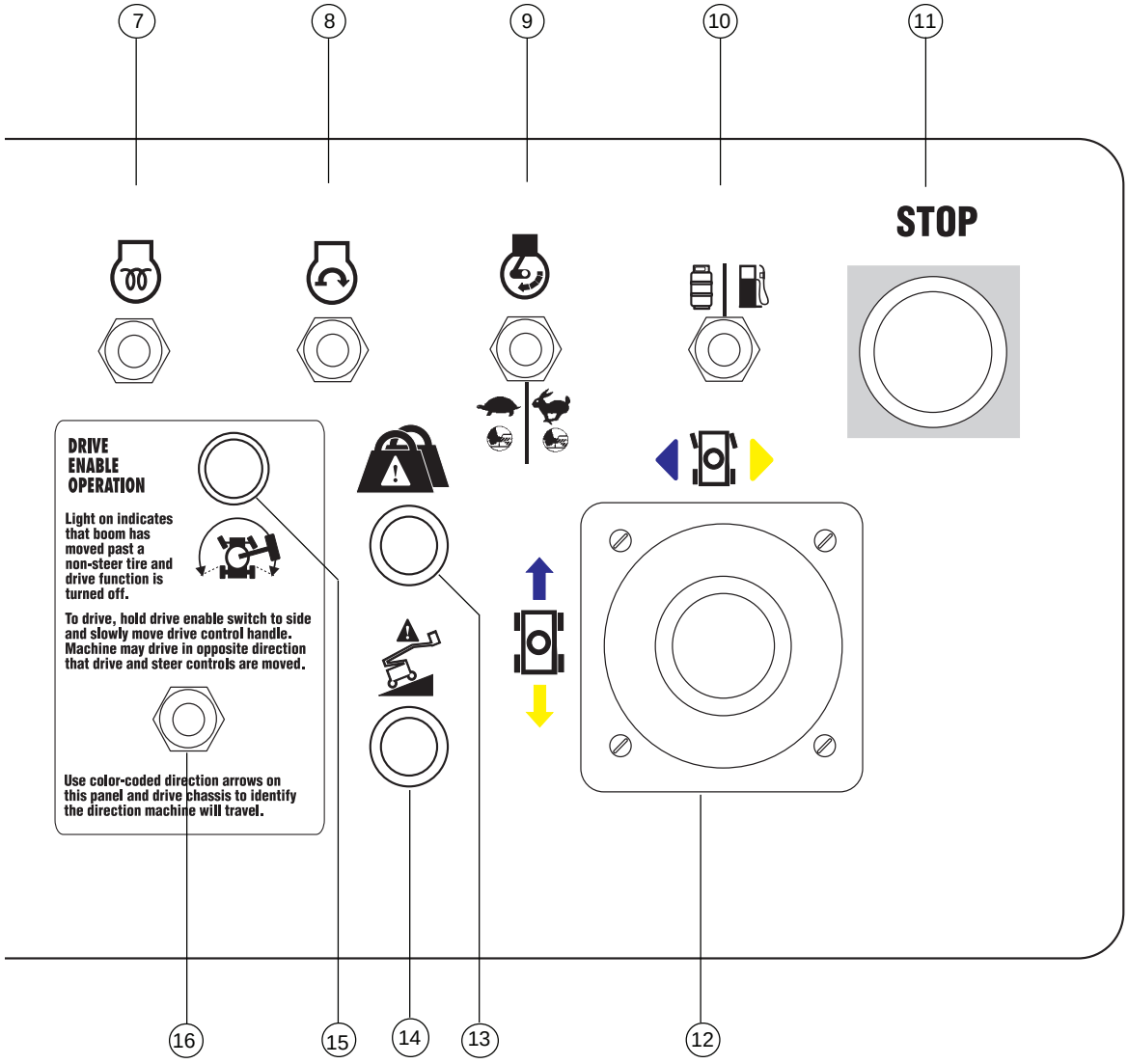
8 Engine start switch

9 Engine idle (rpm) control switch
- Turtle symbol: low idle
- Rabbit symbol: high idle

10 Gasoline/LPG models: Gasoline/LPG select switch

11 Red Emergency Stop button

Controls



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

13 Platform overload indicator light

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 Optional equipment

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

Controls

Platform Control Panel

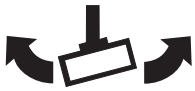
1 Horn button

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

2 Platform level switch

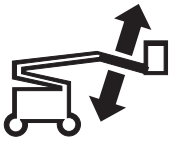
Move the platform level switch up and the level of the platform will raise. Move the platform level switch down and the level of the platform will lower.

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 Platform overload indicator light

Light flashing indicates the platform is overloaded. The engine will shut off and no functions will operate. Remove weight until the light goes off and then restart the engine.

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.

Inspections

Do Not Operate Unless:

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

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

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

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Pre-operation Inspection Fundamentals

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

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

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

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

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

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

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

Inspections

Pre-operation Inspection

- ❑ Be sure that the operator's, safety and responsibilities manuals are complete, legible and in the storage container located in the platform.
- ❑ Be sure that all decals are legible and in place. See 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.

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.

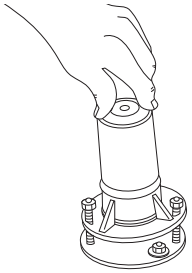
⊙ Result: All boom and platform functions should not operate.

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 control panel side turntable cover and locate the tilt sensor next to the control box.

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 Hydraulic Oil Return Filter

18 Move the engine idle select switch to high idle (rabbit symbol).

19 Locate and check the hydraulic filter.

⊙ Result: The indicator should be in the green area.

20 Move the engine idle select switch to foot switch activated high idle (rabbit and foot switch symbol).

Test the Horn

21 Push the horn button.

⊙ Result: The horn should sound.

Test the Foot Switch

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

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

24 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.

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

⊙ Result: The engine should start.

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

⊙ Result: The machine functions should not operate.

Test Machine Functions

27 Press down the foot switch.

28 Activate each machine function control handle or toggle switch.

⊙ Result: All boom/platform functions should operate through a full cycle.

Test the Steering

29 Press down the foot switch.

30 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.

31 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

32 Press down the foot switch.

33 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.

34 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

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

36 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.

37 Move the drive control handle off center.

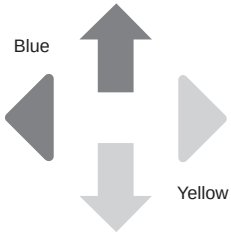
⊙ Result: The drive function should not operate.

38 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.



Test Limited Drive Speed

39 Press down the foot switch.

40 Raise the primary boom approximately 60 cm.

41 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 30 cm per second.

42 Lower the primary boom to the stowed position.

43 Extend the primary boom approximately 60 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 30 cm per second.

Inspections

45 Retract the primary boom to the stowed position.

46 Raise the secondary boom approximately 60 cm.

47 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 30 cm per second.

48 Lower the secondary boom to the stowed position.

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

Test the Oscillate Axle (oscillating axle-equipped models)

49 Start the engine from the platform controls.

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

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

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

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

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

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

Test Auxiliary Controls

53 Shut the engine off.

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

55 Press down the foot switch.

56 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)

57 Press down the foot switch.

58 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.

59 Repair any malfunctions before operating the machine.

Test Aircraft Protection Package (if equipped)

60 Move the gray bumper at the bottom of the platform 4 inches / 10 cm in any direction.

61 Activate each function control handle or toggle switch.

⊙ Result: All boom and steer functions should not operate.

62 Move the function override switch to either side.

63 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.

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.

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

Inspections

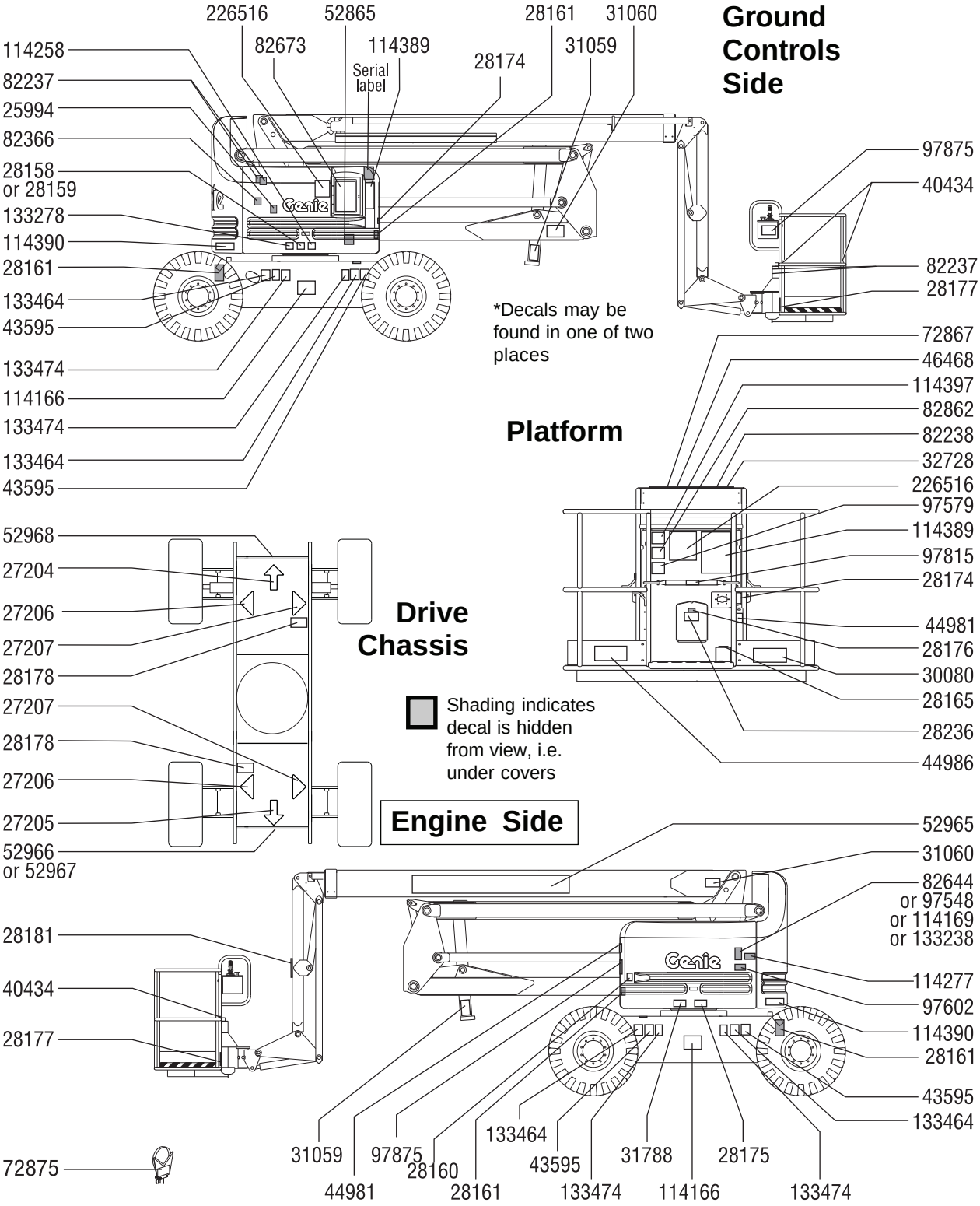
Decal Inspection

Use the appropriate inspection to verify that all decals are legible and in place.

Part No.	Decal Description	Quantity
25994	Notice - Component Damage	1
27204	Arrow - Blue	1
27205	Arrow - Yellow	1
27206	Triangle - Blue	2
27207	Triangle - Yellow	2
28158	Label - Unleaded	1
28159	Label - Diesel	1
28160	Label - Liquid Petroleum Gas (option)	1
28161	Warning - Crushing Hazard	4
28165	Instructions - Foot Switch	1
28174	Label - Power to Platform, 230V	2
28175	Warning - Compartment Access	1
28176	Label - Missing Manuals	1
28177	Warning - Platform Rotate	2
28178	Warning - Shear Point	2
28181	Warning - No Step or Ride	1
28236	Warning - Failure To Read . . .	1
30080	Instructions - Max Capacity 500 lbs / 227 kg	1
31059	Warning - Collision Hazard	2
31060	Danger - Tip-over Hazard, Interlock	2
31788	Danger - Battery Safety	1
32728	Label - Generator (option)	1
40434	Label - Lanyard Anchorage	3
43595	Danger - Tip-over Hazard	4
44981	Label - Air Line to Platform (option)	2
44986	Instructions - Maximum Manual Force 90 lbs / 400 N	1
46468	Label - Function Override	1
52865	Warning - Annual Inspection	1
52965	Cosmetic - Genie Z-60/34	1

Part No.	Decal Description	Quantity
52966	Cosmetic - 4 x 2	1
52967	Cosmetic - 4 x 4	1
52968	Cosmetic - Genie Boom	1
72867	Label - Work Lights	1
72875	Warning - Pipe Cradle	2
82237	Danger - High Voltage (option)	4
82238	Platform Control Panel	1
82366	Label - Chevron Rando	1
82644	Instructions- Perkins Engine Specifications	1
82673	Ground Control Panel	1
82862	Danger - Fire Hazard (option)	1
97548	Instructions - Deutz Engine Specifications	1
97579	Danger - Tip-over, Welder (option)	1
97602	Warning - Explosion Hazard	1
97815	Label - Lower Mid-rail	1
97875	Label - Weld Cable to Platform (option)	2
114166	Label - Transport Diagram	2
114169	Instructions - Ford Engine Specifications, 423 EFI	1
114258	Danger - Explosion Hazard	1
114277	Label - Belt Routing, Ford models	1
114389	Danger - General Safety	2
114390	Danger - Electrocution Hazard	2
114397	Danger - Tip-over Hazard, Tilt-Alarm	1
133238	Instructions- Perkins Engine Specifications	1
133278	Label - Low Sulfur Fuel (diesel models)	1
133464	Label - Tire Specifications	4
133474	Label - Wheel Load	4
226516	Instructions - Operating Instructions	2

Inspections



Operating Instructions

Do Not Operate Unless:

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

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Fundamentals

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

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

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

Operating Instructions

Starting the Engine

1 At the ground controls, turn the key switch to the desired position.

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

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

Gasoline/LPG models: In cold conditions, -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: 25% (14°)
4WD: 40% (22°)

Maximum slope rating, platform uphill:
2WD: 20% (11°)
4WD: 30% (17°)

Maximum side slope rating:
25% (14°)

Note: Slope rating is subject to ground conditions and adequate traction. The term gradeability applies to the 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 1 m long

tape measure

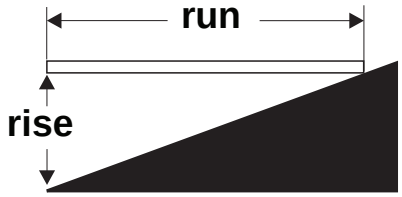
Lay the piece of wood on the slope.

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 = 3.6 m

Run = 3.6 m

Rise = 0.3 m

0.3 m ÷ 3.6 m = 0.083 x 100 = 8.3% 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.

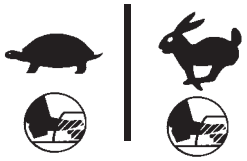
Always use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction the machine will travel.

Drive Speed Select

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

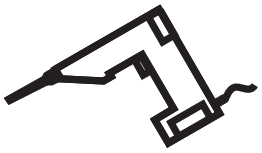
Engine Idle Select (rpm)

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.

Platform Overload Indicator Light

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

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

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.

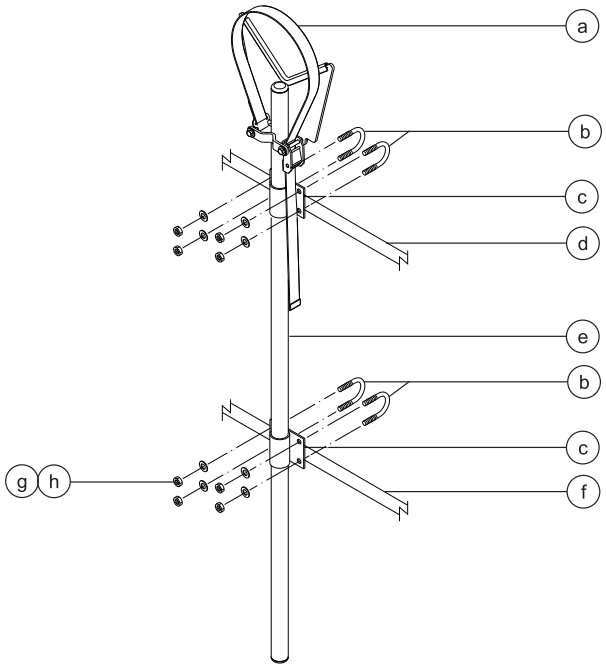
4 Turn the key switch to the off position and remove the key to secure from unauthorized use.

5 Chock the wheels.

Operating Instructions

Pipe Cradle Instructions

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



a strap

b U-bolts

c pipe cradle mount

d upper platform railing

e pipe cradle weldment

f middle platform railing

g flat washers

h 3/8-inch nylock nuts

Observe and Obey:

☑ Pipe cradles must be installed on the inside of the platform.

☑ Pipe cradles must not obstruct the platform controls or the platform entrance.

☑ The bottom of the pipe cradle tube must rest on the platform floor.

☑ Be sure the platform is level before installing a pipe cradle.

Pipe Cradle Installation

1 Install a pipe cradle on each side of the platform. Refer to the illustration on the left. Make sure the bottom of the pipe cradle tube rests on the platform floor.

2 Install two U-bolts from the outside of the platform rails through each pipe cradle mount.

3 Secure each U-bolt with 2 washers and 2 nuts.

Pipe Cradle Operation

1 Be sure the pipe cradle assembly and installation instructions have been followed properly and that the pipe cradles are secured to the platform railings.

2 Place the load so that it rests in both pipe cradles. The length of the load should be parallel with the length of the platform.

3 Center the load in the pipe cradles.

4 Secure the load to each pipe cradle. Pass the nylon strap over the load. Depress the buckle and slide the strap through. Tighten the strap.

5 Gently push and pull on the load to make sure the pipe cradles and load are secure.

6 Keep the load secured when the machine is moving.

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

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

Maximum Pipe Cradle Capacity	
All models	200 lbs 90.7 kg
Pipe Cradle Assembly Weight	21 lbs 9.5 kg

Transport and Lifting Instructions

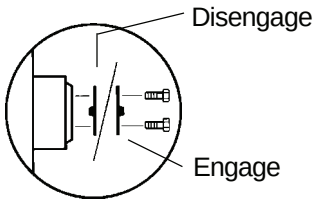
Observe and Obey:

- ☑ 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.

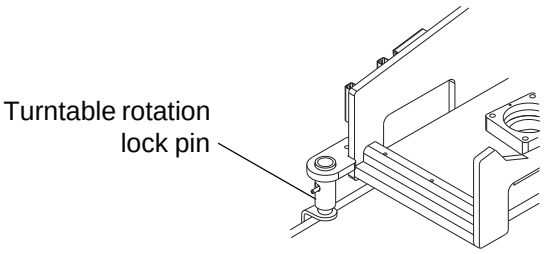
Reverse the procedures described to re-engage the brakes.

Note: Towing the Genie Z-60/34 is not recommended. If the machine must be towed, do not exceed 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.

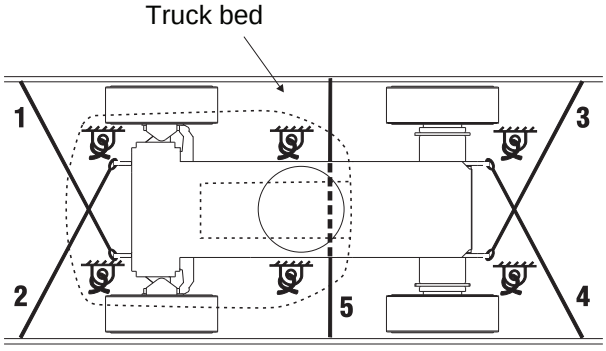
Inspect the entire machine for loose or unsecured items.

Securing the Chassis

Use chains of ample load capacity.

Use a minimum of 5 chains.

Adjust the rigging to prevent damage to the chains.

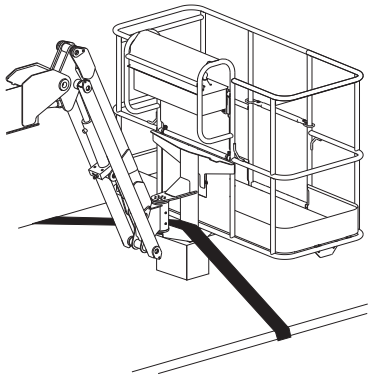


Securing the Platform

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

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

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



Transport and Lifting Instructions

Observe and Obey:

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

Lifting Instructions

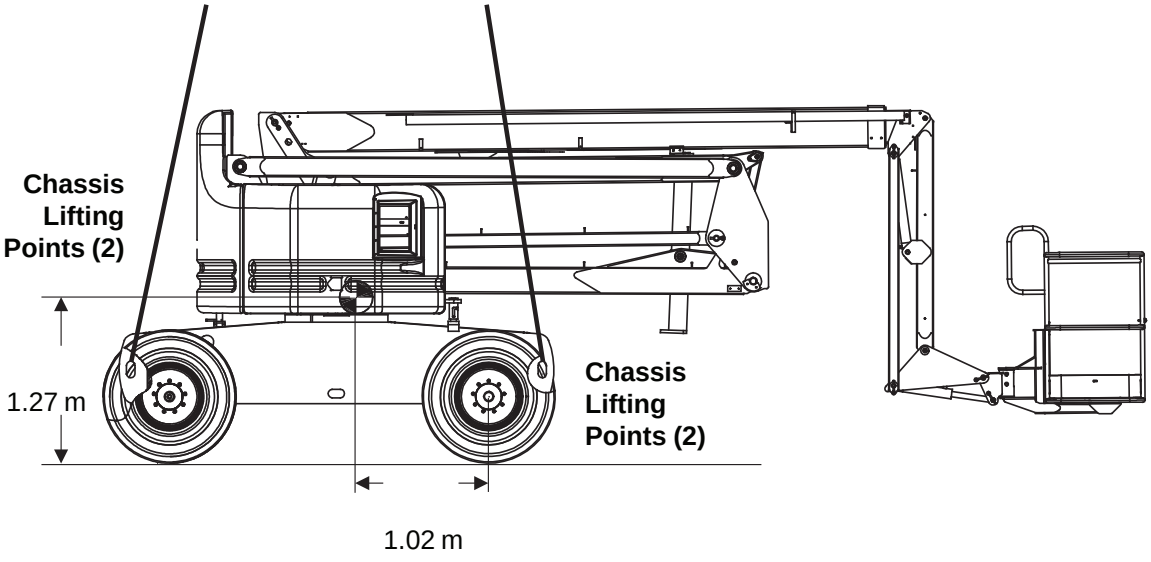
Fully lower and retract the boom. Move the jib perpendicular with the ground. Remove all loose items on the machine.

Use the turntable rotation lock to secure the turntable.

Determine the center of gravity of your machine using the 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.



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 Check the oil dipstick. Add oil as needed.

Perkins 404D-22 Engine	
Oil type	15W-40
Oil type - cold conditions	5W-40
Ford DSG-423 EFI Engine	
Oil type	5W-20
Deutz D2011 L03i 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 5 cm of the sight gauge.

2 Add oil as needed.

Hydraulic oil specifications

Hydraulic oil type	Chevron Rando equivalent

Check the Engine Coolant Level - Liquid Cooled Models

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

1 Check the coolant fluid level. Add fluid as needed.

⊙ Result: The fluid level should be visible in the top tank of the radiator.

⚠WARNING Burn Hazard. Do not remove the radiator cap if the engine and/or radiator is warm. The engine and radiator should be cool to the touch before performing the coolant level inspection.

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.

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

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

Height, working maximum	20.1 m
Height, platform maximum	18.3 m
Height, stowed maximum	2.7 m
Horizontal reach maximum	10.4 m
Width	2.5 m
Length, stowed	8.2 m
Maximum load capacity	227 kg
Maximum wind speed	12.5 m/s
Wheelbase	2.5 m
Turning radius (inside)	3.04 m
Turning radius (outside)	6.1 m
Turntable rotation (degrees)	continuous
Turntable tailswing	0
Drive speed, stowed	4.8 km/h 12.2 m/9 sec
Drive speed, raised or extended	1.0 km/h 12.2 m/40 sec
Controls	12V DC proportional
Platform dimensions, 1.2 m (width x length)	76 cm x 1.2 m
Platform dimensions, 1.5 m (width x length)	76 cm x 1.5 m
Platform dimensions, 1.8 m (width x length)	76 cm x 1.8 m
Platform dimensions, 2.4 m (width x length)	91 cm x 2.4 m
Platform leveling	self-leveling
Platform rotation	180°
AC outlet in platform	standard
Vibration value does not exceed 2.5 m/s^2	

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

Hydraulic pressure, maximum (boom functions)	166 bar
System voltage	12V
Tires	(all four tires must be the same size) 15 x 19.5, 16-ply 355/55 D625, 14-ply (low profile)
Ground clearance 15 x 19.5, 16-ply tires 355/55 D625, 14-ply (low profile tires)	 40.1 cm 38 cm
Fuel tank capacity	75.7 liters
Weight (Machine weights vary with option configurations. See serial label for specific machine weight.)	11331 kg
Airborne noise emissions	
Sound pressure level at ground workstation	84 dBA
Sound pressure level at platform workstation	75 dBA
Guaranteed sound power level	105 dBA
Maximum slope rating, stowed position, 2WD	
Platform downhill	25% (14°)
Platform uphill	20% (11°)
Side slope	25% (14°)
Maximum slope rating, stowed position, 4WD	
Platform downhill	40% (22°)
Platform uphill	30% (17°)
Side slope	25% (14°)
Note: Slope rating is subject to ground conditions and adequate traction.	
Maximum allowable inclination of the chassis	4.5°
Floor loading information	
Tire load, maximum	5829 kg
Tire contact pressure	4.92 kg/cm^2 483 kPa
Occupied pressure	1339 kg/m^2 13.13 kPa

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

Specifications

Z-60/34 Range of Motion