Genie Industries



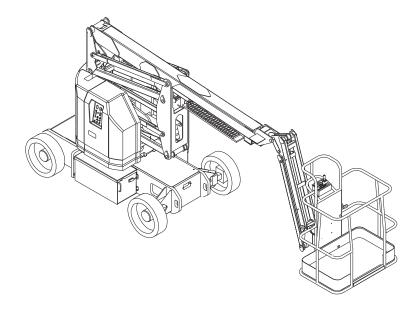


Incorrect operation can result from use of this manual on machines that have not been updated according to Genie Campaign Bulletin 070001. Death or Serious Injury can result.

This manual only applies to machines that have been updated according to Genie Campaign Bulletin 070001. Contact Genie Industries for information on this bulletin.

Genie Z-34/22 [Jenie Z-34/22]

Operator's Manual



First Edition, Sixth Printing Part No. 36539

Genîe Z-34/22 [] Genîe Z-34/22 []

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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Genie Industries

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Safety Rules



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 work place.
- 5 Only use the machine as it was intended.
- ☑ You read, understand and obey:

Manufacturer's instructions and safety rules—safety and operator's manuals and machine decals

employer's safety rules and worksite regulations

applicable governmental regulations

☑ You are properly trained to safely operate the machine.

SAFETY RULES

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.

Voltage Phase to Phase		mum Safe Distance Meters
0 to 300V	Avoid C	Contact
300V to 50KV	10	3.05
50KV to 200KV	15	4.60
200KV to 350KV	20	6.10
350KV to 500KV	25	7.62
500KV to 750KV	35	10.67
750KV to 1000KV	45	13.72

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 operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

Tip-over Hazards

Occupants and equipment shall not exceed the maximum platform capacity.

Maximum platform capacity	500 lbs	227 kg
Maximum occupants		2





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

Do not depend on tilt alarm as a level indicator. Tilt alarm sounds in platform only when machine is on a severe slope (4.5° or more).

If tilt alarm sounds:

Do not extend, rotate or raise boom above horizontal. Move machine to a firm, level surface before raising platform. If tilt alarm sounds when platform is raised, use extreme caution to retract boom and lower platform. Do not rotate boom while lowering. Move machine to a firm, level surface before raising platform.

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

Do not drive over 0.6 mph (1 km/h) with the boom raised or extended.

SAFETY RULES

Do not raise the boom in strong or gusty winds.





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 drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the boom raised or extended.

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

Maximum slope rating, stowed position			
Counterweight uphill	20%	(11°)	
Counterweight downhill	20%	(11°)	
Side slope	20%	(11°)	

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



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

Maximum allowable side force 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 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 and lug nuts are properly tightened.

SAFETY RULES

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 110 pounds (49.9 kg). Each battery box including 4 batteries must weigh a minimum of 538 pounds (244 kg).

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.

Fall Hazards



Occupants must wear a safety belt or harness and comply with applicable 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.



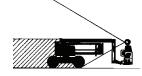


Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

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.

Be aware of boom position when rotating turntable.

Machine must be on level surface or secured before releasing brakes.

SAFETY RULES

Do not drive the machine with the remote brake system released. If the travel alarm sounds when not driving, the remote brake system is released.

Check work area for overhead obstructions or other possible hazards.





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

It is recommended that operators wear an approved hard hat when operating the machine.

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.





Limit travel speed according to condition of ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Do not operate a boom in the path of any crane unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

Use extreme care and slow speeds while driving the machine in the stowed position on any slope.

Do not drive on a slope with boom raised.

Do not allow the machine speed on any slope to exceed 3 mph / 4.8 km/h (walking pace).

Stop the machine by returning the drive control handle to the center position or releasing the foot switch.

When stopped on a slope, the machine may initially move slightly downhill when the drive control handle is moved to drive up the slope. Be sure the area behind the machine is clear.

Do not drive on a slope with the wheels turned. Be sure the wheels are aligned up and down the slope.



Always use a winch to load and unload a machine from a transport vehicle.

SAFETY RULES

Component Damage Hazard

Do not use machine as a ground for welding.

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 Genie Z-34/22 & Genie Z-34/22N Service Manual.

Be sure all decals are in place and legible.

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

Decal Legend

Genie product decals use color coding and signal words to identify the following:

A DANGER

Red—used to indicate the presence of a hazard that will cause death or serious injury.

AWARNING

Orange—used to indicate the presence of a hazard that may cause death or serious injury.

ACAUTION

Yellow—used to indicate the presence of a hazard that will or may cause serious injury or damage to the machine.



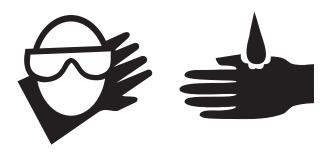
Green—used to indicate operation or maintenance information.

SAFETY RULES

Battery Safety

Burn Hazards

Batteries contain acid. Always wear protective clothing and eyewear when working with batteries.



Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Battery pack must remain in upright position.

Do not expose the batteries or the charger to water and/or rain.

Explosion Hazards



Keep sparks, flames and lighted tobacco away from batteries. Batteries emit an explosive gas.

The battery pack cover must remain off during the entire charging cycle.

Do not contact the battery terminals or the cable clamps with tools that may cause sparks.

Component Damage Hazards

Do not use any battery charger greater than 48V to charge the batteries.

Both battery packs must be charged together.

Disconnect the battery pack plug before removing the battery pack.

Electrocution Hazards



Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cord, cables and wires. Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

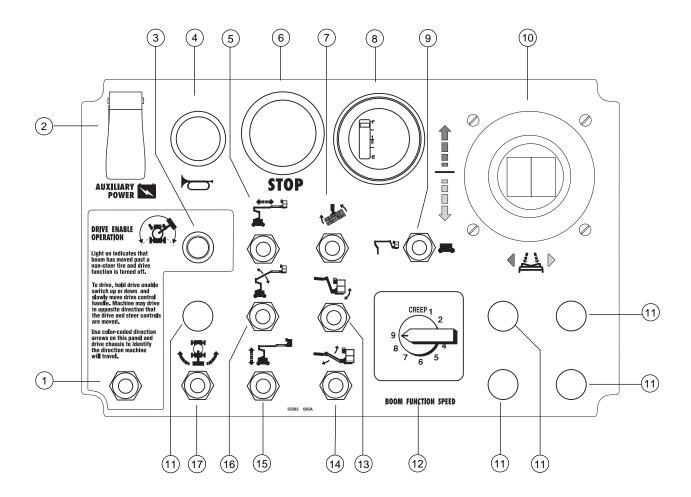
Tip-over Hazard

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 110 pounds (49.9 kg). Each battery box including batteries must weigh a minimum of 538 pounds (244 kg).

Lifting Hazard

Use a forklift to remove or install the battery pack(s).

Controls

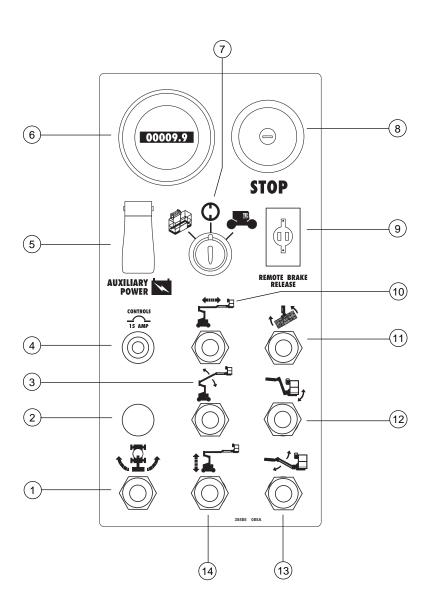


Platform Control Panel

- 1 Drive enable switch
- 2 Auxiliary power switch with cover
- 3 Drive enable indicator light
- 4 Service horn button
- 5 Boom extend/retract switch
- 6 Emergency Stop button
- 7 Platform rotate switch
- 8 Battery charge indicator
- 9 Boom/Drive function select switch (option)

- 10 Proportional control handle for drive function and thumb rocker for steer function
- 11 not used
- 12 Boom function speed controller
- 13 Platform level switch
- 14 Jib boom up/down switch
- 15 Secondary boom up/down switch
- 16 Primary boom up/down switch
- 17 Turntable rotate switch

CONTROLS



Ground Control Panel

- 1 Turntable rotate switch
- 2 not used
- 3 Primary boom up/down switch
- 4 15A breaker for electrical circuits
- 5 Auxiliary power switch with cover
- 6 Hour meter
- 7 Key switch for platform/off/ground selection
- 8 Emergency Stop button
- 9 Remote brake release
- 10 Boom extend/retract switch
- 11 Platform rotate switch
- 12 Platform level switch
- 13 Jib boom up/down switch
- 14 Secondary boom up/down switch

Pre-operation Inspection



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 work place.
- 5 Only use the machine as it was intended.

Fundamentals

It is the responsibility of the operator to perform a Pre-operation Inspection.

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.

Refer to the list on page 11 and check each of the items and locations for modifications, damage or loose or missing parts.

A damaged or modified machine must never be used. If damage or any 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 manuals.

PRE-OPERATION INSPECTION

Pre-operation Inspection

- Be sure that the operator's, safety and responsibilities manuals are legible and in the storage container located on the platform.
- Be sure that all decals are legible and in place (see Decals, page 24).
- Check the hydraulic power unit oil level. Check for leaks.

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

- Electrical components, wiring and electrical cables
- Hydraulic power unit, reservoir, hoses, fittings, cylinders and manifolds
- □ Drive and turntable motors and torque hubs
- Boom wear pads
- □ Tires and wheels
- Limit switches, alarms and horn
- □ Nuts, bolts and other fasteners
- □ Platform entry mid-rail/gate
- □ Beacon and alarms (if equipped)

Check entire machine for:

- Cracks in welds or structural components
- Dents or damage to machine
- Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- Be sure that both battery packs are in place, latched and properly connected.
- After you complete your inspection, be sure that all compartment covers are in place and latched.

Function Tests



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 work place.
- 5 Only use the machine as it was intended.

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.

FUNCTION TESTS

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: Beacon (if equipped) should flash.

Test Emergency Stop

- 4 Push in the red Emergency Stop button to the off position.
- Result: All ground and platform control functions should not operate.
- 5 Pull out the red Emergency Stop button to the on position.

Test the Boom Functions

- 6 Activate each boom and platform function toggle switch.
- Result: All boom and platform functions should operate through a full cycle. The descent alarm (if equipped) should sound while boom is lowering.

Test the Tilt Sensor

- 7 Pull out the platform red Emergency Stop button to the on position. Turn the key switch to platform control.
- 8 Open the ground control side turntable cover and locate the tilt sensor next to the function manifold.
- 9 Press down one side of the tilt sensor.
- Result: The alarm, located in the platform, should sound.

Test Auxiliary Controls

- 10 Turn the key switch to ground control.
- 11 Lift the red auxiliary power switch cover.
- 12 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.
- 13 Turn the key switch to platform control.



FUNCTION TESTS

At the Platform Controls

Test Emergency Stop

- 14 Push in the platform red Emergency Stop button to the off position.
- Result: All platform control functions should not operate.

Test the Service Horn

- 15 Pull out the red Emergency Stop button to the on position.
- 16 Push the service horn button.
- Result: The service horn should sound.

Test the Foot Switch

- 17 Do not press down the foot switch. Activate each machine function.
- Result: The machine functions should not operate.

Test Machine Functions

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

Note: Control the speed of boom functions by adjusting the boom function speed controller. Drive and steer functions are not affected by the boom function speed controller.

Test the Steering

- 20 Press down the foot switch.
- 21 Depress the thumb rocker switch on top of the drive control handle in the direction identified by the blue triangle on the control panel.
- Result: The steer wheels should turn in the direction that the blue triangles point on the drive chassis.
- 22 Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.
- Result: Steer wheels should turn in the direction that the yellow triangles point on the drive chassis.

Test Drive and Braking

- 23 Press down the foot switch.
- 24 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 travel/brake release alarm should sound. The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.
- 25 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 travel/brake release alarm should sound. The machine should move in the direction that the yellow arrow points on the drive chassis, then come to an abrupt stop.

FUNCTION TESTS

Test Limited Drive Speed

- 26 Press down the foot switch.
- 27 Raise the primary boom 1 foot (30 cm).
- 28 Slowly move the drive control handle to the full drive position.
- Result: The maximum achievable drive speed with the boom raised should not exceed 1 foot per second (0.3 meters per second).
- 29 Lower the boom to the stowed position.
- 30 Extend the boom 1 foot (30 cm).
- 31 Slowly move the drive control handle to the full drive position.
- Result: The maximum achievable drive speed with the boom extended should not exceed 1 foot per second (0.3 meters per second).

If the drive speed with the boom raised or extended exceeds 1 foot per second (0.3 meters per second), immediately tag and remove the machine from service.

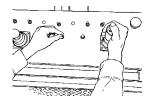
Test the Drive Enable System

- 32 Press down the foot switch. Then retract the primary boom to the stowed position.
- 33 Rotate the turntable until the boom moves past one of the non-steering 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.

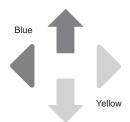
35 Move and hold the drive enable toggle switch up or down and slowly move the drive control handle off center.



Result: The drive function should operate.

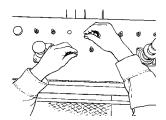
Note: When the drive enable system is in use, the machine may drive in the opposite direction that the drive and steer control handle is moved.

Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction of travel.



Test Auxiliary Controls

- 36 Press down the foot switch.
- 37 Lift the red auxiliary power switch cover.
- 38 Simultaneously hold 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, steer and drive functions should operate.
- 39 Repair any malfunctions before operating the machine.

Work Place Inspection



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 work place.

Know and understand the work place inspection before going on to the next section.

5 Only use the machine as it was intended.

Fundamentals

The Work Place Inspection helps the operator determine if the work place is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the work place.

It is the operator's responsibility to read and remember the work place hazards, then watch for and avoid them while moving, setting up and operating the machine.

Work Place Inspection

Be aware of and avoid the following hazardous situations:

- · drop-offs or holes
- bumps, floor obstructions or debris
- 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
- Determine the slope of any surface in the path of travel on the job site

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 work place.
 - 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 and tools 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 work place inspection before using the machine.

Emergency Stop

Push in the red Emergency Stop button to the off position to stop all ground and platform control functions.

Repair any function that operates from the ground or platform controls when the Emergency Stop button at the ground controls is pushed in.

Repair any function that operates from the platform when the Emergency Stop button at the platform controls is pushed in.

Selecting and operating the ground controls will override the platform Emergency Stop button.

Auxiliary Controls

Use auxiliary power if the primary power source fails.

- 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 desired function.

The boom, steer and drive functions will 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 Be sure both battery packs are connected before operating the machine.

To Position Platform

1 Move the appropriate toggle switch according to 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 Be sure that both battery packs are connected before operating machine.

To Position Platform

 Set boom function speed controller to desired speed.

Note: Drive and steer functions are not affected by boom function speed controller.

- 2 Press down the foot switch.
- 3 Move the appropriate toggle switch according to the markings on the control panel.

To Steer

- 1 Press down the foot switch.
- 2 Turn the steering wheels with the thumb rocker switch located on top of the drive control handle.

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

The travel/brake release alarm will sound when the drive controller is moved off center.

Note: When the turntable is rotated so the boom is past the non-steer tires, the machine may move in the opposite direction that the drive and steer controls are moved.

Machine travel speed is restricted when the boom is raised or extended.

Battery condition will affect the ability of the machine to climb a slope.

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, counterweight uphill (gradeability): 20% (11°)



Maximum slope rating, counterweight downhill: 20% (11°)



Maximum side slope rating: 20% (11°)

Note: Slope rating is subject to ground conditions and adequate traction. The term gradeability applies to the counterweight uphill configuration only.

Be sure the boom is below horizontal and the platform is between the non-steer tires.

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

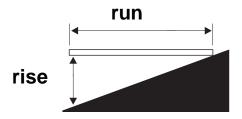
tape measure

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 in \div 144 in = 0.083 x 100 = 8.3% grade

 $0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \text{ x} 100 = 8.3 \% \text{ grade}$

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 Instructions section.

OPERATING INSTRUCTIONS

Driving Up/Down Slopes Drive/Brake Control Theory

Brakes release progressively as the drive control handle is moved out of neutral in either direction. Brakes apply progressively as the drive control handle is moved toward the neutral position. If the machine is on a slope, the progressive release/application of the brakes combined with torque from the drive motors allows you to control the speed of the machine. For this reason, in some circumstances it is more effective to drive down a sloped surface by moving the drive control handle in the uphill direction. This is called "plug braking." Apply these principles for driving on a slope by following the instructions below.

Driving up a slope

Be sure the platform is fully lowered and the platform is between the drive wheels. Be sure the wheels are aligned up and down the slope.

- 1 Press down the foot switch.
- 2 Move the drive control handle firmly.

When stopped on a slope, the machine may initially move slightly downhill when the drive control handle is moved to drive up the slope. Be sure the area behind the machine is clear.

Driving down a slope

Be sure the platform is fully lowered and the platform is between the drive wheels. Be sure the wheels are aligned up and down the slope.

- 1 Position the steer wheels on the downhill side of slope.
- 2 Press down the foot switch.
- 3 On steeper slopes, it may be more effective to move the drive control handle in the uphill direction (plug braking) in order to drive downhill. For this reason, no matter what slope you are on, always begin the process of driving downhill by slowly moving the drive control handle in the uphill direction. Use small movements of the drive control handle to control the machine speed.

If the machine moves uphill instead of downhill, the slope is too small to use plug braking. Move the drive control handle back to the neutral position to apply the brakes and proceed as follows:

4 Slowly move the drive control handle *downhill*. Use small movements of the drive control handle to control the machine speed.

To stop the machine completely, return the drive control handle to the center (neutral position). The machine can also be stopped by removing your foot from the foot switch or pushing in the red Emergency Stop button.

If machine speed exceeds 3 mph / 4.8 km/h (walking pace), immediately stop the machine.

OPERATING INSTRUCTIONS

Drive Enable

Light on indicates that the boom has moved past either non-steering wheel and drive function has been interrupted.

To drive, hold the drive enable switch up or down 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 machine will travel.

After Each Use

- 1 Select a safe parking location—firm level surface, clear of obstruction and traffic.
- 2 Lower the boom to the stowed position.
- 3 Rotate the turntable so that the boom is between the non-steering wheels.
- 4 Turn the key switch to the off position and remove the key to secure from unauthorized use.
- 5 Chock the wheels.
- 6 Charge the batteries.

Transport Instructions



Observe and Obey:

- Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- ☑ Transport vehicle must be parked on a level surface.
- ☑ Transport vehicle must be secured to prevent rolling while machine is being loaded.
- ☑ Be sure vehicle capacity, loading surfaces and chains or straps are sufficient to withstand machine weight (see *Specifications*, page 27).
- ☑ Machine must be on level surface or secured before releasing brakes.
- Always use a winch to load and unload a machine from a transport vehicle.



Securing to Truck or Trailer for Transit

Always chock machine wheels in preparation for transport.

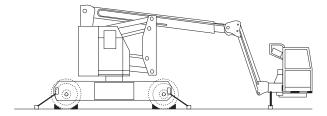
Use tie points on drive chassis for anchoring down to transport surface.

Use lower platform mount between boom end and platform to secure boom from side-to-side movement. Do not use excessive downward force when securing boom section.

Use chains or straps of ample load capacity.

Turn key switch to the off position and remove key before transporting.

Inspect entire machine for loose or unsecured items.



TRANSPORTINSTRUCTIONS

Free-wheel Configuration for Winching

- 1 Chock wheels to prevent machine from rolling.
- 2 Release the non-steer wheel brakes by turning over torque hub disconnect caps (see below).

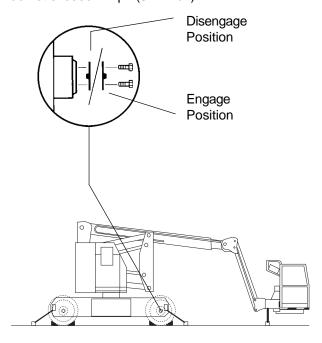
Machines with remote brake switch:

- Plug the switch into the adaptor at the ground control box. Apply the remote brake release switch while winching the machine.
- 3 Be sure winch line is properly secured to drive chassis tie points and path is clear of all obstructions.

After machine is loaded:

- 1 Chock wheels to prevent machine from rolling.
- 2 Apply the non-steer wheel brakes by turning over torque hub disconnect caps (see below).

Towing the Genie Z-34/22 or the Genie Z-34/22N is not recommended. If the machine must be towed, do not exceed 2 mph (3.2 km/h).



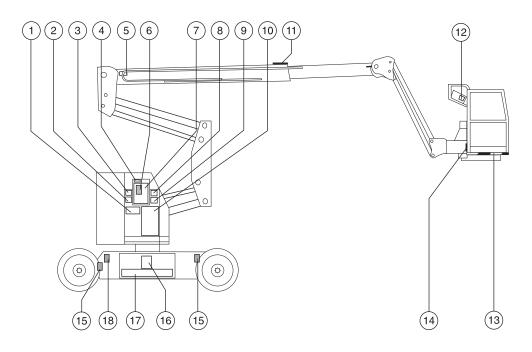
Decals

Index	Part No. Quanti Decal Description	ity
1	35541	1
	Notice - Operating Instructions, Ground Controls	
2	38112	1
_	Caution - Brake Release	·
3	38111	1
	Warning - Brake Release	·
4	38110	1
•	Label - Travel Alarm	٠
5	31060	3
Ū	Danger - Do Not Alter Limit Switch	Ŭ
6	36538 or 40528	2
Ū	Serial Plate or Serial Plate	_
	Z-34/22N Z-34/22	
7	35585	1
	Ground Control Panel	
8	29803	2
	Notice - Hazardous Materials	
9	28171	2
	Label - No Smoking	
10	32700	1
	Danger - General Safety Rules	
11	28181	1
	Danger - No Step or Ride	
12	28174 or 28235	2
	Power to Platform or Power to Platform 220V 115V	
13	33550	
	Safety Tape	
14	28177	2
	Warning - Platform Rotate	
15	35542 or 40529	4
.0	Notice - Lug Nut Torque or Notice - Lug Nut Torque	•
	Z-34/22N Z-34/22	
16	37091	2
	"Z"	
17	40294 or 40525	2
	Genie Z-34/22N or Genie Z-34/22	
18	28372	2
	Caution - Component Damage Hazard	
19	37093	1
	Stripes	
20	40295 or 40526	2
	Genie Z-34/22N or Genie Z-34/22	
21	28161	3
	Warning - Crush Hazard	
22	28157	1
	Label - Dexron	
23	37095	2
_	"Z"	
	<u> </u>	_

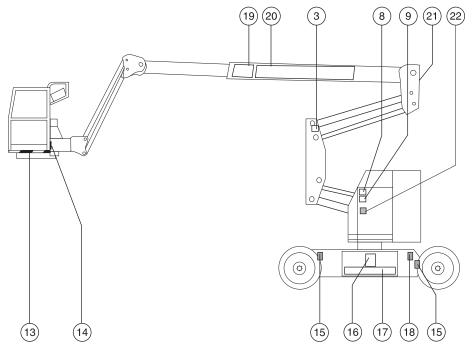
ndex	Part No. Quai Decal Description	ntit
<u>=</u> 24	33952	
	Danger - Tilt-Alarm	
25	114333	
	Notice - Operating Instructions, Platform Control	ols
26	35583	
	Platform Control Panel	
27	37052	
	Notice - Maximum Load 500 lbs / 227 kg	
28	28165	
	Notice - Foot Switch	
29	28236	
	Warning - Failure To Read	
30	28176	
	Notice - Missing Manuals	
31	37051	
	Notice - Maximum Allowable Side Force	
32	28867	
	Genie BOOM	
33	40296 or 40527	
	Genie Z-34/22N or Genie Z-34/22	
34		
2.5	Triangle, Yellow	
35	40299 Notice Rattery Connection Diagram	
20	Notice - Battery Connection Diagram	
36	31785 Notice - Battery Charger Operating Instructions	
37	40300	
31	Danger - Tip-over Hazard	
38	31788	
50	Danger - Battery/Charger Safety	
39	28175	
,,	Caution - Compartment Access	
40	37054	
	Arrow, Yellow	
41	37055	
	Triangle, Blue	
42	37053	
	Arrow, Blue	
43	27564	
	Danger - Electrocution Hazard	
44	31508	
	Notice - Power to Battery Charger	
45	114330	
	Safety Rules	

DECALS

Ground Controls Side



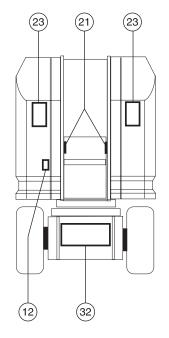
Power Unit Side

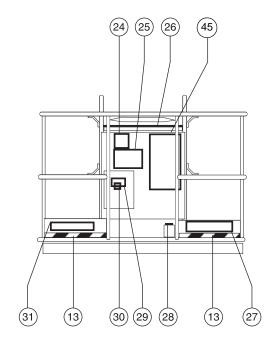


DECALS

Turntable - Boom Storage End

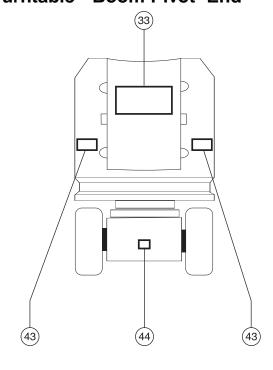
Platform

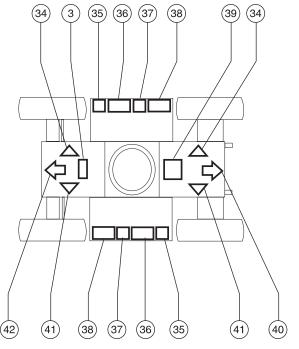




Turntable - Boom Pivot End

Drive Chassis - Top





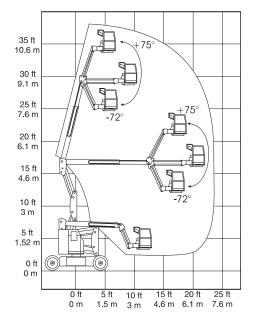
Specifications

Z-34/22N		
Height, working maximum	40 ft	12.2 m
Height, platform maximum	34 ft 4 in	10.5 m
Height, stowed maximum	6 ft 7 in	2 m
Horizontal reach maximum	22 ft 4 in	6.8 m
Width	4 ft 10 in	1.5 m
Length, stowed	18 ft 7 in	5.7 m
Maximum load capacity	500 lb	227 kg
Wheelbase	6 ft 2 in	1.9 m
Turning radius (outside)	12 ft 9 in	3.8 m
Turning radius (inside)	6 ft 0 in	1.8 m
Ground clearance	5 ³ /4 in	14.6 cm
Turntable rotation (degrees)		355°
Turntable tailswing		0
Power source	8 Group-4H, 6V 315AH Batteries	

24V DC	proportional
	56 in x 30 in
142	cm x 76 cm
;	self-leveling
	160°
	standard
	2800 psi
	193 bar
22 >	7 x 17 ³ /4 in
56 x	18 x 45 cm
5 gallons	18.9 liters
1,500 lbs	5216 kg
	142

Drive speeds (maximum)		
Boom stowed,	2.8 mph	4.5 km/h
49:1 torque hubs	40 ft/10 sec	12.2 m/10 sec
Boom stowed,	3.4 mph	5.5 km/h
35:1 torque hubs	40 ft/8 sec	12.2 m/8 sec
Boom	0.6 mph	1.0 km/h
raised or extended	40 ft/40 sec	12.2 m/40 sec
Maximum slope rating, sto	owed position	_
Counterweight uphill	20%	(11°)
Counterweight downhill	20%	(11°)
Side slope	20%	(11°)

Note: Slope rating is subject to ground conditions



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and adequate traction.

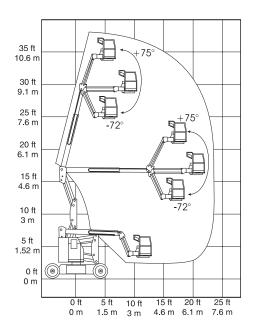
SPECIFICATIONS

Z-34/22		
Height, working maximum	40 ft	12.2 m
Height, platform maximum	34 ft 8 in	10.6 m
Height, stowed maximum	6 ft 7 in	2 m
Horizontal reach maximum	22 ft 4in	6.8 m
Width	5 ft 8 in	1.7 m
Length, stowed	18 ft 6 in	5.6 m
Maximum load capacity	500 lb	227 kg
Wheelbase	6 ft 2 in	1.9 m
Turning radius (outside)	13 ft 1 in	4 m
Turning radius (inside)	5 ft 8 in	1.7 m
Ground clearance	6 in	15.2 cm
Turntable rotation (degrees)		355°
Turntable tailswing		0
Power source	8 Group-4H, 6V 315AH Batteries	

Controls	24V DC pr	oportional	
Platform dimension (length x width)	S,	14	56 in x 30 in 42 cm x 76 cm
Platform leveling			self-leveling
Platform rotation			160°
AC outlet in platform	n		standard
Hydraulic pressure (boom functions)	(maximum)		2800 psi 193 bar
Tires size		;	Size 9-14.5 LT
Hydraulic tank capa	acity	5 gallons	18.9 liters
Weight	1	0,500 lbs	4763 kg

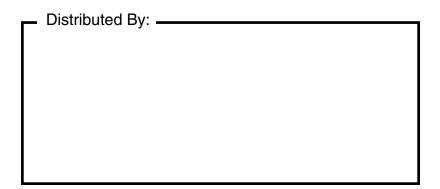
Drive speeds (maximum))	
Boom stowed,	4 mph	6.4 km/h
35:1 torque hubs	40 ft/6.8 sec12.2 m/6.8 se	
Boom stowed,	3.1 mph	4.9 km/h
49:1 torque hubs	40 ft/9.1 sec12.2 m/9.1 se	
Boom	0.6 mph	1.0 km/h
raised or extended	40 ft/40 sec 12.	.2 m/40 sec
Maximum slope rating, st	owed position,	
Counterweight uphill	20%	(11°)
Counterweight downhill	20%	(11°)
Side slope	20%	(11°)
•		

Note: Slope rating is subject to ground conditions



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