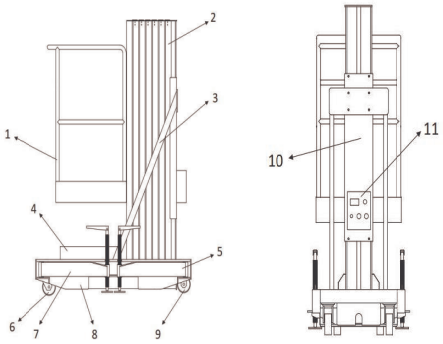
Important

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.

Contents



1. Guardrail 2. Aluminum mast 3. Oblique support rod
4. Motor shield 5. Support pin 6. Universal Wheel
7. Support legs 8. Chassis 9. Directional wheel
10. Oblique support guard 11. Electric control box

Safety Rules

Danger

Failure to obey the instructions and safety rules in this manual will cause 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 above principle before going on to the next section.

2 Always perform a pre-operation inspection.

3 Always perform the function tests prior to use.

4 Inspect the work place.

5 Only use the machine as a personnel lift.

☑ **You** read, understand and obey:

- manufacturer's instructions and safety rules—operator's manual and machine decals
- employer's safety rules and worksite regulations
- applicable governmental regulations

☑ The first time this machine is set up for use, a breather cap is installed (see *Breather Cap*, page 8).

Tip-over Hazards

Do not raise platform unless base is level, all four outriggers are properly installed and leveling jacks firmly contact floor.

Do not adjust or remove outriggers while platform is occupied or raised.

Do not move machine while the platform is raised.

Do not place or attach overhanging loads to any part of this machine.

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

Do not place ladders or scaffolds in platform or against any part of this machine.

Do not use machine to lift material or equipment. Machine is intended for personnel access only.

Do not raise platform unless machine is on firm, level surface.

Do not use machine on a moving or mobile surface or vehicle.

Do not raise platform in strong or gusty winds.

Do not exceed rated platform load capacity.

Do not operate machine near drop-offs, holes, bumps, debris, unstable or slippery surface or other possible hazardous conditions.

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

Do not replace items critical to stability with items of different weight or specification. Use only Genie authorized replacement parts.

When moving the machine with a forklift or other transport vehicle, platform should be fully lowered, machine should be turned off and no personnel shall remain in platform.

Do not push the Genie AWP from the platform side of the machine.

Fall Hazards

Do not sit, stand or climb on platform guard rails. Maintain a firm footing on the platform floor at all times.

Do not exit platform while raised. If a power failure occurs, have ground personnel activate manual lowering valve.

Keep platform floor clear of debris.

Lower platform entry mid-rail before operating.

Electrocution Hazards

This machine, even with an optional fiberglass platform, is not electrically insulated and will not provide protection from contact with or proximity to electrical current.

Keep away from machine if it contacts energized power lines or becomes electrically charged. Personnel on ground or in platform must not touch or operate machine until energized power lines are shut off.

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

Voltage	Minimum Safe Approach Distance	
Phase to Phase	**Feet**	**Meters**
0 to 300V	Avoid 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 movement due to strong or gusty winds.

Do not use machine as a ground for welding.

Do not operate AC powered machine or DC battery charger unless using a 3-wire grounded extension cord connected to a grounded AC circuit. Do not alter or disable 3-wire grounded plugs.

SAFETY RULES

Collision Hazards

Check work area for overhead obstructions or other possible hazards.

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

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

Be careful when transporting on incline.

Stay clear of descending platform.

Improper Use Hazards

Do not leave machine unattended unless key is removed to secure from unauthorized use.

Damaged Machine Hazards

Do not use a damaged or malfunctioning machir

Conduct a thorough pre-operation inspection of 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 IWP/AWP Service Manual.*

Be sure all decals are in place and legible.

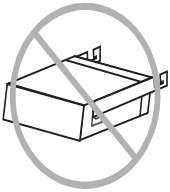
Be sure the operator's, the safety and the responsibilities manuals are legible, complete ar in the storage container located in the platform.

Battery and Charger Safety - DC Models

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.

Explosion Hazards

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

Charge batteries in a well-ventilated area.

Do not disconnect charger DC output wires from battery when charger is on.

Electrocution Hazards

Connect charger to a grounded AC circuit only.

Do not expose battery or charger to water and/or rain.

Before each use, inspect for damage. Replace damaged items before operating.

Lifting Hazard

Battery pack weighs 80 lbs (36kg). Use the appropriate number of people and proper lifting techniques when lifting the battery pack.

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 above principle before going on to the next section.

3 Always perform the function tests prior to use.

4 Inspect the work place.

5 Only use the machine as a personnel lift.

Fundamentals

The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. This inspection is designed to discover if anything is apparently wrong with a machine before the operator tests it.

Inspect the machine 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 testing functions.

Pre-operation Inspection

Be sure that the operator's manual is complete, legible and in the storage container located in the platform.

Be sure that all decals are legible and in place

Check the hydraulic oil level. Check for leaks.

Check the following compomemts or areas for damage and improperly installed, loose or missing parts:

- Electrical components, wiring and electrical cables
- Hydraulic power unit, hoses, fittings and cylinder
- Platform entry mid-rail
- Platform entry ladder (if equipped)
- Sequencing cables and pulleys
- Lifting chains and idler wheels
- Nuts, bolts and other fasteners
- Weld or structural cracks
- Mast columns and counterweight
- Outriggers, leveling jacks and footpads

Check entire mahcine for:

- Dents or damage
- Corrosion or oxidation
- Crack in welds or structural components

Inspect and clean battery terminals and all battery cable connections.

Be sure that all structual and other critical components are present and all associated fasteners and pins are in place and properly tightened.

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 the function tests prior to use.

Know and understand the above principle before going on to the next section.

4 Inspect the work place.

5 Only use the machine as a personnel lift.

☑ **You** read, understand and obey:

- manufacturer's instructions and safety rules—operator's manual and machine decals
- employer's safety rules and worksite regulations
- applicable governmental regulations

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 remoed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturers specifications.

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

Function Tests

1 Select a test area free of obstructions.

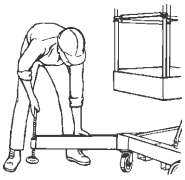
2 Connect appropriate power source.

3 Turn the key switch to the ON position.

4 Pull out the red Emergency Stop button to the ON position.

⊙ Result: The power light should come on.

5 Select an outrigger and slide it into a base socket until the outrigger lock pin snaps into place. Bring the outrigger leveling jack into firm contact with ground.

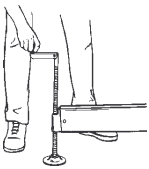


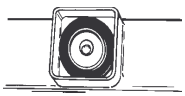
6 Repeat procedure for each of the remaining outriggers.

7 Adjust the rolling platform to the desired height. Be sure the carriage is properly secured and the fastener is tight.

Test Emergency Stop

8 Use the bubble level and adjust leveling jacks





until the machine base is level.

9 Twist to release the red Emergency Stop button at the platform controls.

10 Push in the red Emergency Stop button at the ground controls to the OFF position.

11 Push in the control activate button and rotate the up/down switch in the direction of intended travel.

- Result: Up/Down functions should **not** operate.

12 Push in the red Emergency Stop button at the platform controls to the OFF position.

13 Pull out the red Emergency Stop button at the ground controls to the ON position.

14 Push in the control activate button and rotate the up/down switch in the direction of intended travel.

- Result: Up/Down functions should **not** operate.

Test Manual Lowering

15 Raise platform slightly.

16 Activate the manual lowering valve located on the hydraulic power unit.

- Result: Platform should descend.

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 above principles before going on to the next section.

5 Only use the machine as it was intended.

Work Place Inspection

Be aware of and avoid the following hazardous situations:

- drop-offs orholes
- 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

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.

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 a personnel lift.

Fundamentals

Using the machine for anything other than lifting material is unsafe.

If more than one operator is expected to use a machine at different times in the same work shift, each operator is expected to follow all safety rules and instructions in the operator's manual. That means every new operator should perform a pre-operation inspection, function tests and a work place inspection before using the machine.

Setup

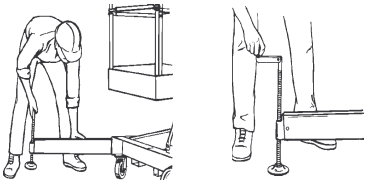
1 Position machine on a firm, level surface directly below desired work area.

2 Connect to appropriate power source:
DC models: Connect battery pack.
AC models: Connect to a grounded 15A AC power supply. Use a 12 gauge (3.3mm^2) 3-wire grounded extension cord no longer than 50 feet (13m).

3 Insert key and turn to the ON position.

4 Pull out the red Emergency Stop button and be sure the power light is on.

5 Install outriggers and adjust to level the machine and raise base casters slightly off the ground.



6 Adjust the rolling platform to the desired height. Be sure the carriage is properly secured and the fastener is tight.

Platform controller

1.Turn on the power, and the power light on the electrical cont box will light up before operating the machine.

2.Press and hold the riser button of the electric control box or t rise button of the remote control, the platform rises; press the down button of the control box or the down button of the remot control, the platform will descend.

3.The red button is the emergency stop button, which is used when the platform cannot be effectively stopped during the ascent. When the button is pressed, the platform stops runnin and the "up" and "down" buttons are disabled. Turn the knob i the direction of the arrow to reset it, and the button cannot be pulled.

OPERATING INSTRUCTIONS

Emergency Stop

Push in the red Emergency Stop button at platform controls or at ground controls to stop all functions.

Manual Lowering

1 Activated from ground only.

2 Activate manual lowering valve located on hydraulic power unit to lower platform.

Platform Raise and Lower

1 Follow *Setup* procedure.

2 Twist to release the red Emergency Stop button.

3 Push in control activate button and rotate the up/down switch in the desired direction of travel.

After Each Use

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

2 Remove the ladder from the side entry position and slide the ladder into the stored position on the ladder base weldment. Be sure the lock pin snaps into place.

3 Chock wheels to prevent machine from rolling.

4 Remove key to secure from unauthorized use.

5 DC models: Disconnect battery pack and recharge battery.

Battery and Charger Instructions

Observe and Obey:

☑ Do not use external charger or booster battery.

☑ Charge battery in a well-ventilated area.

☑ Use proper AC input voltage for charging as indicated on charger.

A good battery condition is critical to normal machine performance and safe operation. Improper electrolyte levels or damaged cables and wiring can result in component damage and hazardous conditions.
Note: This check is not required for battery machines that are sealed or maintenance-free.
! The danger of electric shock. Contact with an electrical circuit can result in death or serious personal injury. Remove all rings, watches and other accessories.
! The risk of physical injury. The battery contains acidic substances. Avoid spilling or contacting acidic substances in the battery. Use soda and water to neutralize the overflowing battery acid.
Note: This check is performed after the battery is fully charged.
1.Put on protective clothing and wear protective goggles.
2.Make sure that the battery cable is securely wired and not corroded.
3.Make sure the battery lock lever is properly positioned and secure.
4.Remove the battery vent cover.
5.Check the level of the acidic liquid in each battery. If necessary, replenish distilled water through a filling pipe at the bottom of the battery. Do not add too much.
6.Install the ventilation cover.
Note: Adding a terminal protector and an anti-corrosion sealant will help eliminate corrosion on the battery terminals and cables.

Maintenance.

1 Hydraulic oil shall be replaced after the product is used for 6 months, and the frequency of use and pollution degree of hydraulic oil shall be changed from time to time.When replacing the hydraulic oil, the inner wall of the oil tank should be cleaned thoroughly, and metal particles, cotton yarn, fiber and other foreign matters should not be allowed to enter the oil tank.Open battery pack lid to access battery.

2 The pollution of hydraulic oil must be strictly prevented, There should be no water,acid,alkali and other impurities in the oil fluid.

3 The tightness of the lifting arm transmission chain group should be checked frequently in use. If it is found that the upper end of the lifting arm is obviously uneven, or the tightness of the chain in the lifting process is inconsistent, the length of the chain should be adjusted timely.When adjusting, raise the working platform to a certain height, identify the arm to be adjusted and screw the nut at the lower end (M8×1), and check while adjusting until it meets the requirements.

4 In case of obstacles stuck in the solenoid valve, the solenoid valve core is loosened with a socket wrench with a length of 24 mm, and the valve core immersed in kerosene is gently rotated to remove the clogged foreign bodies, and then the valve core is gently pulled to carefully display the exhibits and damaged objects in the check valve sleeve Placed on the spool, smooth sliding will build up internal energy in the spool. Take care to maintain the original accuracy, then place it into the valve body and install the solenoid.

5 In case of automatic fall of the operating platform, check whether the emergency oil drain switch is loose, if so, tighten it clockwise.If not, check whether the one-way valve seal is reliable, or check whether there is soft fiber in the oil to cause the one-way valve failure, use 24MM socket wrench to unscrew the one-way valve,if the seal is damaged, replace the seal, if there is a foreign body in the valve core, clean it with diesel or kerosene, remove the obstacles, re-install the valve core and tight.

6 Change lift arm of the wheel removal group, or after the installation of the roller group, should first will work platform rises a certain height, will need to change the roller set to pry into the lifting arm guide site, with the relative activity guide position fixed,using work platform down to push roller group into the lifting arm rise again work platform, installed the end of the lifting arm insurance, repeatedly tried to rise several times, without exception, change the assembly work is done.

7 Non-professional are not allowed to disassemble and repair the parts of the oil pressure system. If you are not sure, please do not repair, you can entrust the factory to repair.

8 The lifting platform needs lubrication, and N32 machinery oil should be frequently filled in the maintenance part: friction part of chain sprocket;Sprocket wheel, sprocket shaft friction parts;Friction part of roller in lifting arm;Under the chassis universal wheel, directional wheel rotation parts.

Troubleshooting.

Malfunction	Cause Analysis	Solution
Platform does not rise	1.Emergency stop button is off; 2.The motor reverses or does not work; 3.Manual drop valve is not closed; 4.Hydraulic oil freezing The field power cable has a small wire diameter and the machine startup power is less than 210V.	1.Open the emergency stop button; 2.Power line swap phase line 3.Tighten or repair; 4.Replace with antifreeze hydraulic oil; 5.According to the motor output power, better on-site power cord
Platform does not rise or the bearing capacity does not reach the rated weight, but the motor and oil pump operate normally,	1.The oil pressure system is set too low The oil pump suction line leaks, allowing air to enter the hydraulic system; 2.Tank oil level is too low	Adjust the overflow valve of hydraulic control valve block; Tighten each joint or replace the sealing ring; Hydraulic oil must be added to the normal oil level; Clean solenoid valve and check valve
Platform rises slowly or hydraulic system shakes	1.Insufficient oil, inhaling air; 2.Suction pipe leaks; 3.Manual down valve is not closed	1.Add enough hydraulic oil; 2.Repair the suction pipe; 3.Close the manual lowering valve
Platform does not fall smoothly or fall oo fast	1.The platform is under loaded, especially when it is empty; 2.Hydraulic flow is too small to cause the drop is not free; Excessive flow of liquid valve causes rapid drop	According to the working principle ofthe hydraulic system, adjust the overflow valve
Platform automatically drops	1.Manual valve is not closed; 2.Hydraulic system oil leakage; 3.There is a foreign object in the check valve; 4.Check valve body spool wear	1.Tighten or repair; 2.Identify the oil spill and repair it 3.Cleaning; 4.Replace the check valve
Motor does not start	1.Power supply and voltage; 2.Stroke switch normally closed contact disconnected; 3.Other electrical connection poor contact	Be checked one by one by the electrician to eliminate. If the voltage is insufficient, the power line should be increased
Light does not shine	1.The power supply does not pass the fuse blown; 2.Emergency stop button on the electric control box is closed	1.Replace the fuse; 2.Open the emergency stop button
There is a large horizontal swing in the lifting arm, and there is still swing in the static state	1.Roller set wear too much and out ofthe guide rail; 2.There is a obstacles in the arm segment which causes the roller to get out of the guide rail	Change the roller set to ensure the movement gap; Replace the roller group to ensure smooth movement by removing foreign bodies between movements.
Pipe and joint oil leakage	1.The joint nut is loose; 2.Connector O-ring failure; 3.Oil pipe aging damage Three-way joint thread breakage	1.Tighten the nut; 2.Replace the O-ring 3.Replace the oil pipe; 4.Replace the three-way connector

OPERATING INSTRUCTIONS

Transport Instructions

Observe and Obey:

- ☑ Be sure vehicle capacity and loading surfaces are sufficient to support machine weight (see *Specifications*). Some pick-up truck tailgates are not strong enough to support the weight of the machine and may require reinforcement.
- ☑ Do not load machine onto a vehicle unless it is parked on a level surface.
- ☑ Transport vehicle must be secured to prevent rolling while machine is being loaded.
- ☑ Machine must be securely fastened to transport vehicle.

Lifting Instructions

The number of people required to load and unload a machine is dependent on a number of factors, including but not limited to:

- The physical condition, strength and disabilities or prior injuries of the people involved
- the vertical and horizontal distances the machine has to be moved
- the number of times the machine will be loaded or unloaded
- the stance, posture and grip used by the people involved
- the lifting techniques used
- the site condition and weather in which the activity is being performed (i.e., slippery, icy, raining)

The approporiate number of people and proper lifting techniques must be used to prevent physical injury.

Loading for Transport

1 Fully lower platform.

2 Push in red Emergency Stop buttons, turn key switch to the OFF position and remove key.

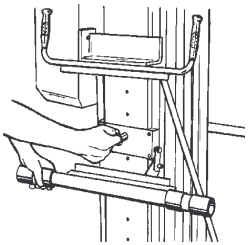
3 Remove outriggers from base and place in storage sockets.

4 Remove the ladder from the side entry position and slide the ladder into the stored position on the ladder base weldment. Be sure the lock pin snaps into place.

5 DC models: Disconnect battery cable and remove battery pack.

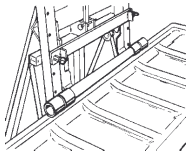
6 Inspect entire machine for loose or unsecured items.

7 Slide the stop bracket to the top lock position.



8 Hook loading pivot to stop bracket.

9 Position machine flush against loading surface. Lower and lock stop bracket to the lowest lock pin position above loading surface.



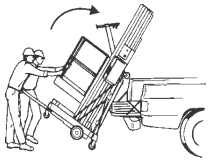
10 All models with tilt-back frames:

Be sure both stop bracket lock pins are fully engaged.

Be sure both tilt-back frame swivel casters are locked.

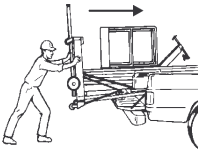
11 Slide out T-handle until lock pin snaps into place.

12 Lift the T-handle to tilt machine onto loading surface. Use the appropriate number of people and proper lifting techniques.



13 Carefully push machine into transport position.

14 Return sliding T-handle to stowed position.



15 Secure the machine base and mast to the transport vehicle. Use chains or straps of ample load capacity.

16 Reverse procedure to unload.