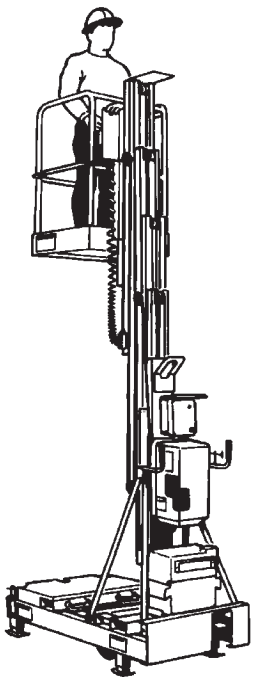


Genie Industries



Genie® IWP

Operator's Manual



Third Edition, First Printing
Part No. 35054



Genie® IWP

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 is 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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This machine complies with
 ANSI/SIA A92.3-1990.

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Safety Rules



Warning

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 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 workplace.
- 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

SAFETY RULES

Tip-over Hazards



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

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

Do not raise platform in strong or gusty winds.



Do not exceed rated platform load capacity.

Maximum capacity	350 lbs	159 kg
Maximum occupancy	1 person	

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

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.

SAFETY RULES

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	
	Feet	Meters
Phase to Phase		
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.

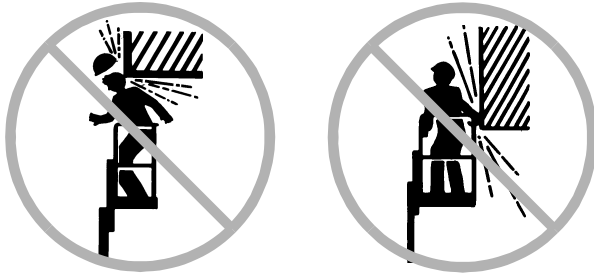
Improper Use Hazard

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

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.

Decal Legend

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

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

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

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

NOTICE Green—used to indicate operation or maintenance information.

Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of machine and test all functions before each work shift.

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 and in the storage container located in the platform.

SAFETY RULES

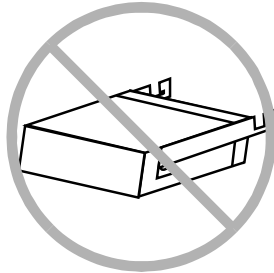
Battery and Charger Safety - DC Models

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 battery 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.

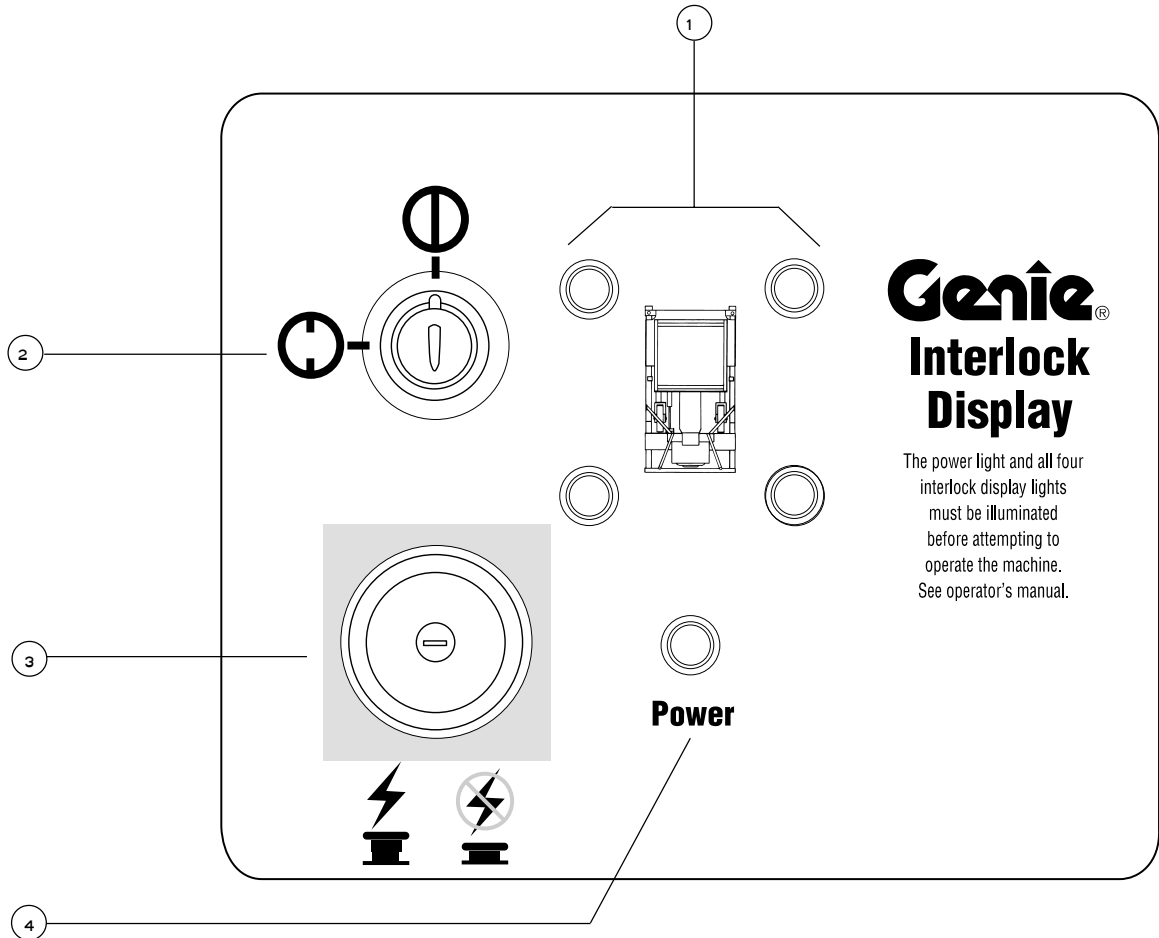
Before each use, inspect for damage. Replace damaged items before operating.

Lifting Hazard

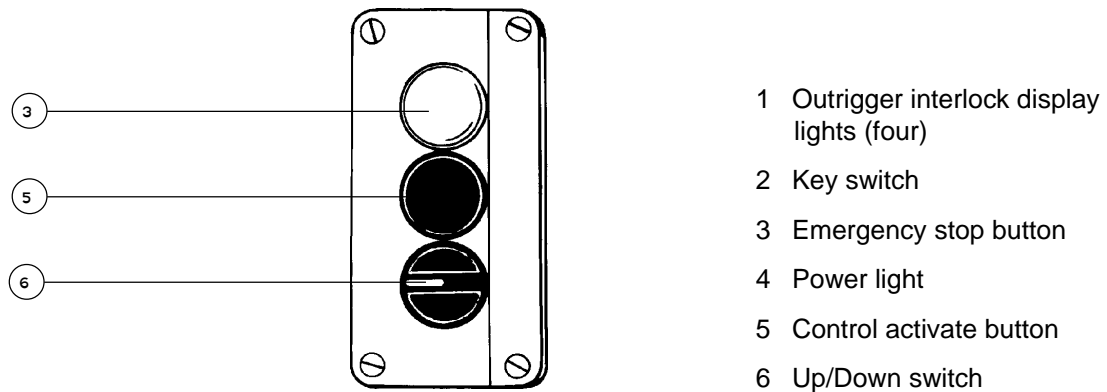
Battery pack weighs 80 lbs (36 kg). Use the appropriate number of people and proper lifting techniques.

Controls

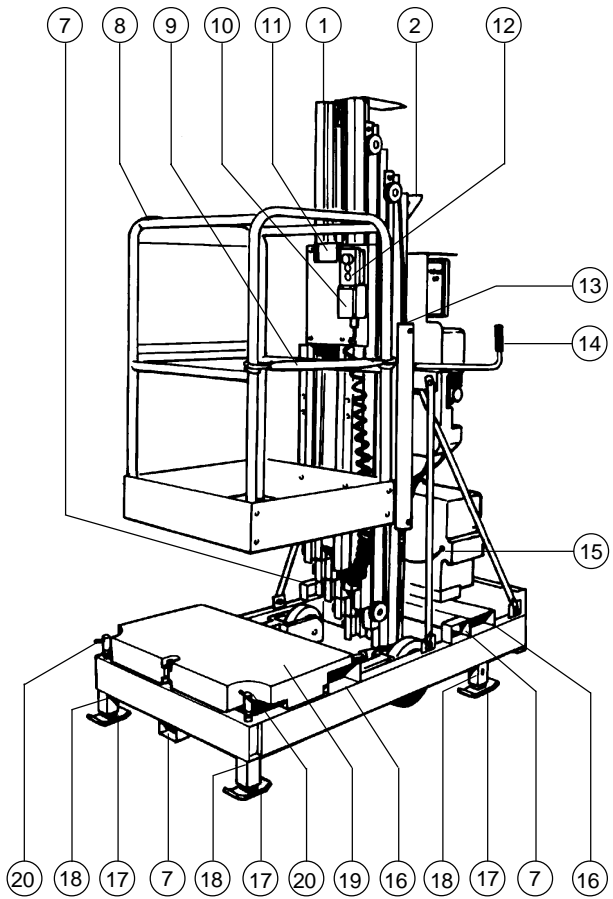
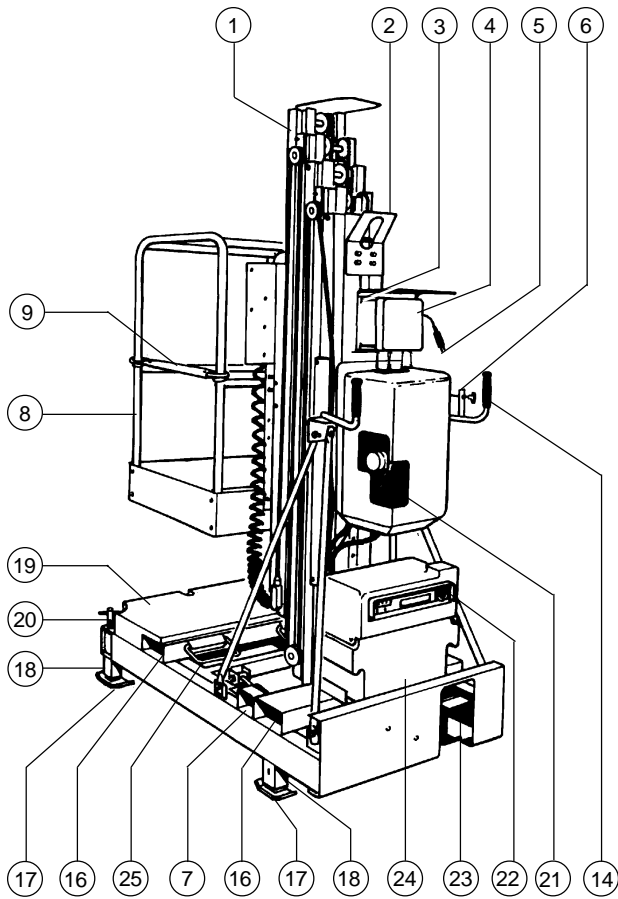
Ground Controls



Platform Controls



Legend



- 1 Mast
- 2 Lifting eye
- 3 Fuse(s)
- 4 Ground controls (interlock display)
- 5 AC power supply cord
- 6 Base lowering handle
- 7 Transport tie down
- 8 Platform
- 9 Platform entry mid-rail
- 10 AC outlet
- 11 Operator's manual storage container
- 12 Platform controls
- 13 Bubble level

- 14 Steering handle
- 15 Battery quick disconnect
- 16 Forklift pocket
- 17 Contact point wear pad
- 18 Contact point
- 19 Counterweight
- 20 Leveling jack
- 21 Manual lowering valve
- 22 Battery charger (DC models)
- 23 Foot pedal
- 24 Battery pack (DC models)
- 25 Forklift ring

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 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.

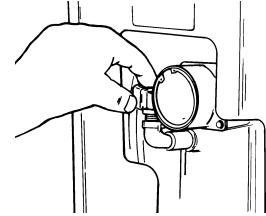
A damaged or modified machine must never be used. If damage or any variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

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.

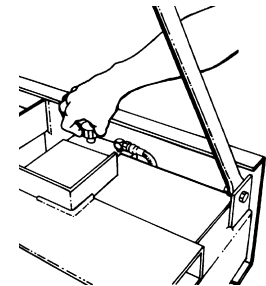
Breather Caps

Component damage will occur if the machine is operated without both breather caps.

The first time this machine is set up for use, the pipe plug in both hydraulic reservoirs should be removed and permanently replaced with breather caps.



Two breather caps are supplied and can be found in an envelope taped to the mast near the platform controls.



PRE-OPERATION INSPECTION

Pre-operation Inspection

- ❑ Be sure that the operator's, the safety and the responsibilities manuals are complete, legible and in the storage container located on the mast.
- ❑ Be sure that all decals are legible and in place (see *Decals*, page 17).

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

- ❑ Electrical components, wiring and electrical cables
- ❑ Hydraulic power unit, hoses, fittings and cylinders
- ❑ Hydraulic manifolds and foot pump
- ❑ Platform entry mid-rail
- ❑ Sequencing cables and pulleys
- ❑ Lifting chains and idler wheels
- ❑ Mast columns and counterweight
- ❑ Nuts, bolts and other fasteners
- ❑ Breather caps
- ❑ Contact point wear pads

Check entire machine for:

- ❑ Dents or damage
- ❑ Corrosion or oxidation
- ❑ Cracks in welds or structural components
- ❑ Be sure that all structural 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 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.

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.

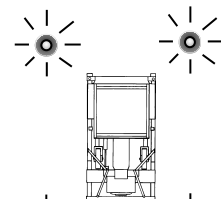
Function Tests

- 1 Select a level test area free of obstructions.
- 2 Pump the foot pedal to raise the base.
- ⦿ Result: The wheels should contact the ground.
- 3 Pull base lowering handle to fully lower the base.
- ⦿ Result: All four contact points should come in firm contact with the ground.

Test Interlock System

- 4 Connect the appropriate power source.
- 5 Insert the key and turn to the ON position.
- 6 Pull out the red Emergency Stop button to the ON position.
- ⦿ Result: The power light should come on.
- 7 Use the bubble level and adjust the leveling jacks until the machine is level and all four contact points are in firm contact with the ground.

- ⦿ Result: Within 3 to 6 seconds, all four interlock display lights should turn on and remain on.



- 8 Pump the foot pedal to raise the base.
- 9 Turn the right side leveling jack clockwise 3 full turns.
- 10 Pull the base lowering handle to lower the base.
- ⦿ Result: The base will lower and the diagonal pair of lights corresponding to the extended leveling jack will remain on. The opposite pair of lights will turn off.

FUNCTION TESTS

- 11 Pump the foot pedal to raise the base.
- 12 Turn the right side leveling jack counterclockwise 3 full turns. Then turn the left hand leveling jack clockwise 3 full turns.
- 13 Pull the base lowering handle to lower the base.
- ⦿ Result: The base will lower and the diagonal pair of lights corresponding to the extended leveling jack will remain on. The opposite pair of lights will turn off.
- 14 Pump the foot pedal to raise the base.
- 15 Turn both the leveling jacks clockwise to the full down position.
- 16 Pull the base lowering handle to lower the base.
- ⦿ Result: The base will lower and all four interlock display lights should be off and remain off because the base is not level. The lights may remain on for 2 to 3 seconds after lowering the base, then turn off.
- 17 Twist to release the red Emergency Stop button at the platform controls.
- 18 Push in the control activate button and rotate to the UP position, then the DOWN position.
- ⦿ Result: Platform up function should **not** operate.

Test Emergency Stop

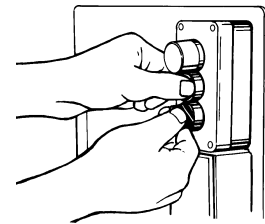
- 19 Use the bubble level and adjust the leveling jacks until the machine base is level. Be sure all four interlock display lights are on.
- 20 Push in the red Emergency Stop button at the ground controls.
- 21 Push in the control activate button and rotate the up/down switch in each direction.
- ⦿ Result: The platform up/down function should **not** operate.
- 22 Push in the red Emergency Stop button at the platform controls. Then pull out the red Emergency Stop button at the ground controls.
- 23 Push in the control activate button and rotate the up/down switch in each direction.
- ⦿ Result: The platform up/down function should **not** operate.

Test Manual Lowering

- 24 Twist to release the red Emergency Stop button at the platform controls. Confirm that the five ground control display lights are on.
- 25 Push in the control activate button and rotate the up/down switch to the UP position to raise the platform approximately 6 inches (15 cm).
- 26 Activate the manual lowering valve located on the hydraulic power unit.
- ⦿ Result: Platform should lower.

Test Platform Raise and Lower

- 27 Push in the control activate button and rotate the up/down switch to the UP position.
- ⦿ Result: Platform should raise smoothly, free of hesitation.
- 28 Push in the control activate button and rotate the up/down switch to the DOWN position.
- ⦿ Result: Platform should lower.



Workplace 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 principle before going on to the next section.

- 5 Only use the machine as a personnel lift.

Be aware of and avoid the following hazardous situations:

- Drop-offs or holes
- Bumps and floor obstructions
- 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
- All 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.**

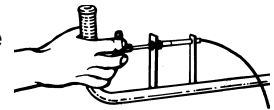
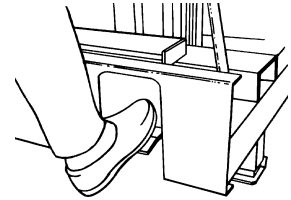
Fundamentals

Using the machine for anything other than lifting personnel and tools to an aerial work site 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.

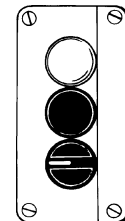
Setup

- 1 Pump the foot pedal to raise base until wheels contact ground.
- 2 Use the steering handles to push the machine.
- 3 Position machine on a firm, level surface directly below work area.
- 4 Pull the base lowering handle to lower the base until all four contact points are in firm contact with the ground.
- 5 Connect to appropriate power source:
DC models: Connect battery pack.
AC models: Connect to a grounded 15A AC power supply. Use a 12 gauge (3.3mm²) 3-wire grounded extension cord no longer than 50 feet (13m).
- 6 Insert key and turn to the ON position.
- 7 Pull out red Emergency Stop button and be sure power light is on.
- 8 Check the interlock display. Be sure that all four interlock display lights are on.



Emergency Stop

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



Emergency Stop
Control Activate
Up/Down Switch

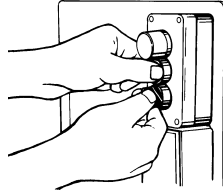
Manual Lowering

- 1 Operate from ground only.
- 2 Activate the manual lowering valve located on hydraulic power unit to lower platform.

OPERATING INSTRUCTIONS

Platform Raise & 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.

**Battery and Charger Instructions****Observe and Obey:****After Each Use**

- 1 Select a safe storage location—firm, level surface, weather protected, clear of obstruction and traffic.
- 2 Pull the base lowering handle to lower the base until all four contact points are in firm contact with the ground.
- 3 Remove key to secure from unauthorized use.
- 4 DC models: Disconnect battery pack and recharge battery.

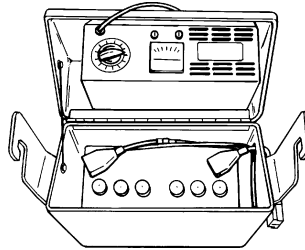
- Do not use external charger or booster battery.
- Charge battery in a well-ventilated area.
- Use proper AC input voltage for charging as indicated on charger.
- Use only Genie authorized battery and charger.
CSA applicable model:
Manual Lester charger 06685

OPERATING INSTRUCTIONS

To Charge Battery

- 1 Disconnect the battery pack from the machine.
- 2 Open battery pack lid to access battery.
- 3 Remove the battery vent caps and check the battery acid level. If necessary, add only enough water to cover the plates. Do not overfill prior to charging cycle.
- 4 Replace the vent caps.

Battery pack lid must remain open during entire charging cycle.



- 5 Connect the battery charger to grounded AC circuit.
- 6 Set the timer based on the amount of use:
 - Light use—less than 15 lifting cycles: Set to 7 hours.
 - Heavy use—greater than 15 lifting cycles: Set to ON position.
- 7 The charger will automatically shut off at end of the set period.
 - If ampere meter drops to 3A or less within the first 15 minutes, the battery is fully charged and the battery charger should be turned off.
- 8 Disconnect the AC supply.
- 9 Check the battery acid level when the charging cycle is completed. Replenish with water to the bottom of the fill tube.

Dry Battery Filling and Charging Instructions

- 1 Remove battery vent caps and permanently remove plastic seal from battery vent openings.
- 2 Fill each cell with battery acid (electrolyte) until level is sufficient to cover plates.

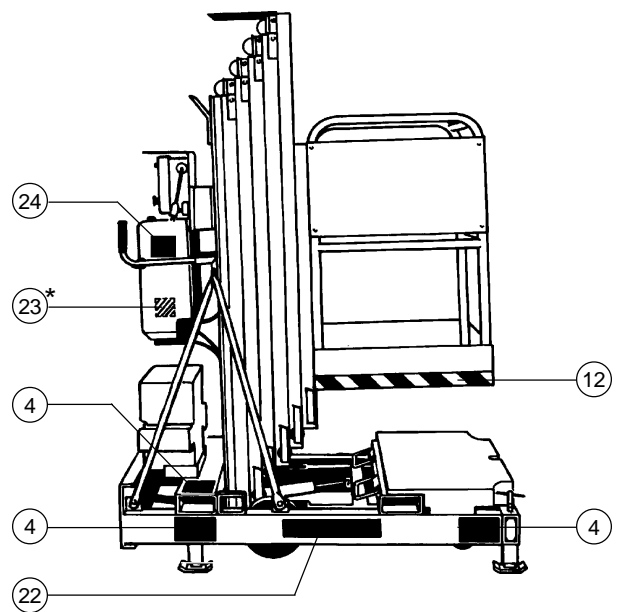
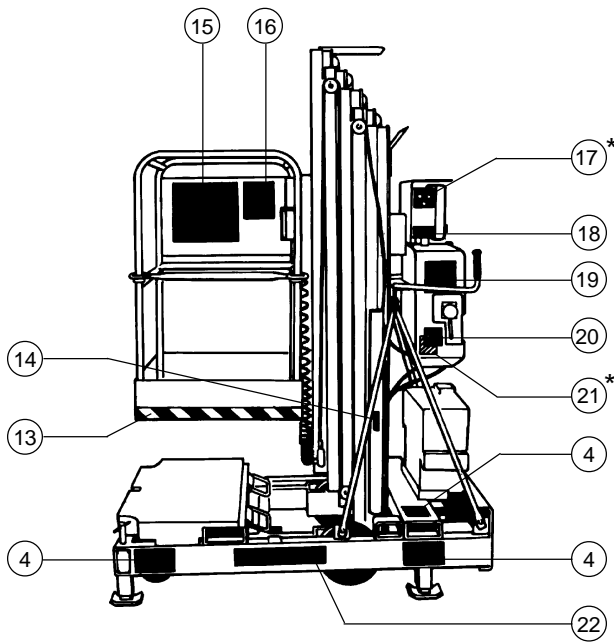
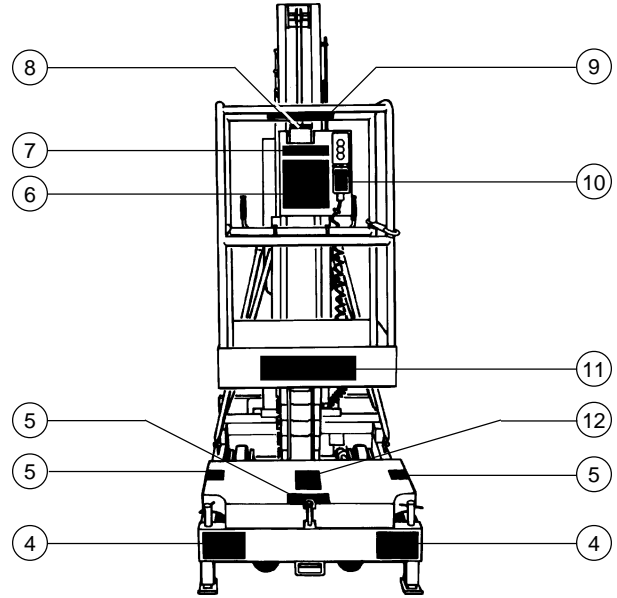
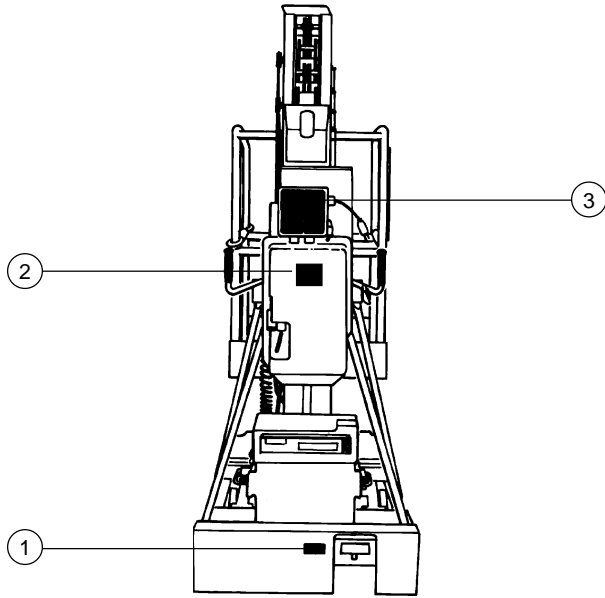
Do not fill to maximum level until battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

- 3 Install the vent caps.
- 4 Charge the battery.
- 5 Check the battery acid level when the charging cycle is complete. Replenish with water to the bottom of the fill tube.

Decals

Index	Part No. Decal Description	Quantity	Index	Part No. Decal Description	Quantity
1	31073 Label - Foot Pedal	1	17	33597 Label - Fuses (AC models only)	1
2	31245 Warning - Collision Hazard (runaway lift)	1	18	31074 Label - ANSI/Patents	1
3	35056 Label - Interlock Display	1	19	27845 Notice - Manual Lowering Lever Caution - Collision Hazard (descending platform) or 32986 Notice - Manual Lowering Knob Caution - Collision Hazard (descending platform)	1
4	31075 Caution - Crushing Hazard (foot)	8	20	27857 Caution - Pipe Plug	1
5	31236 Caution - Foot/Hand Crush	3	21	28157 Notice - Dexron	1
6	31239 Notice - Operating Instructions	1	22	31454 Label - IWP-19 or 31455 Label - IWP-24	2
7	31069 Notice - Maximum Capacity, 350 lbs.	1	23	27868 Danger - Relief Valve	1
8	31072 Label - Operator's Manual Storage Container	1	24	31070 Danger - Tip-over Hazard (moving machine)	1
9	31071 Warning - Failure to Read/Obey Manual	1	25	28372 Caution - Quick Disconnect	1
10	31076 Caution - 8A Maximum, 115V AC	1	26	28398 Danger - Battery Safety (manual charger)	1
11	31456 Genie Logo	1	27	27853 Notice - Battery Charger Instructions	1
12	31077 Caution - Collision Hazard (descending platform)	1			
13	33550 Safety Tape	—			
14	27865 Label - Bubble Level	1			
15	31243 Danger - General Safety	1			
16	31237 Notice - Before Each Work Shift	1			

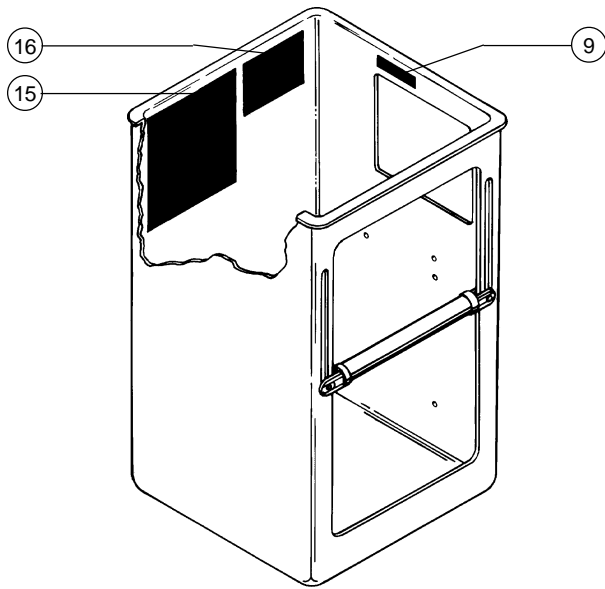
DECALS



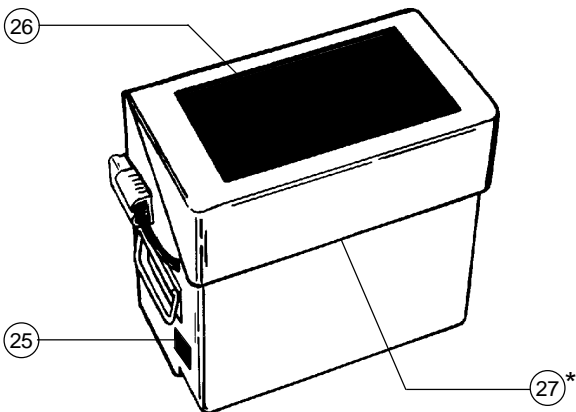
* Decal located under cover

DECALS

Fiberglass Platform Option



Battery Pack - Manual Charger



*This decal is visible when battery pack cover is raised

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.
- ☑ Vehicle capacity, loading equipment and surfaces must be capable of supporting machine weight (see *Specifications*, page 20).
- ☑ The base of the machine must remain fully lowered during all loading and transport procedures.
- ☑ The machine must be secured to the transport vehicle with chains or straps of ample load capacity.

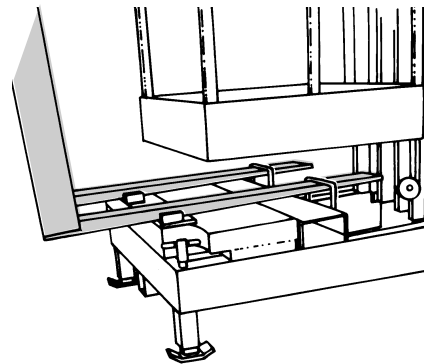
Loading the Machine With a Forklift

Use the forklift pockets located on the sides of the machine or the forklift rings located behind the counterweight, under the platform.

Be sure to inspect the machine and remove any loose or unsecured items.

To use the forklift rings:

- 1 Raise the platform 3 inches (7.5 cm).
- 2 Position the forklift rings in the UP position.



Loading the Machine With a Crane

Use the lifting eye mounted on the rear mast column above the ground controls.

The battery pack must be removed before lifting the machine with a crane.

Be sure to inspect the machine and remove any loose or unsecured items.

Always place the lifting hook through the lifting eye so that it points away from the machine.



Specifications

Model	IWP-19	IWP-24
Height, working maximum	25 ft 4 in 7.7 m	29 ft 10 in 9.1 m
Height, platform maximum	19 ft 4 in 5.8 m	23 ft 10 in 7.2 m
Lift capacity	350 lbs 159 kg	350 lbs 159 kg
Power source		
DC model	12V	12V
AC model	110V or 220V	110V or 220V
Machine weight (DC/AC models)	1111/1050 lbs 505/477 kg	1311/1250 lbs 596/568 kg
Height, stowed*	77 in/79 in 195/200 cm	77 in/79 in 195/200 cm
Width	32 in 81 cm	32 in 81 cm
Length	60 in 152 cm	60 in 152cm
Platform length	26 in 66 cm	26 in 66 cm
Platform width	26 in 66 cm	26 in 66 cm
Platform height	43 in 106 cm	43 in 106 cm
Corner access**	6 in 15 cm	6 in 15 cm

* Base lowered/base fully raised

** Corner of platform top rail to corner of wall with ability to rotate leveling jack handle.

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



U.S.A.

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