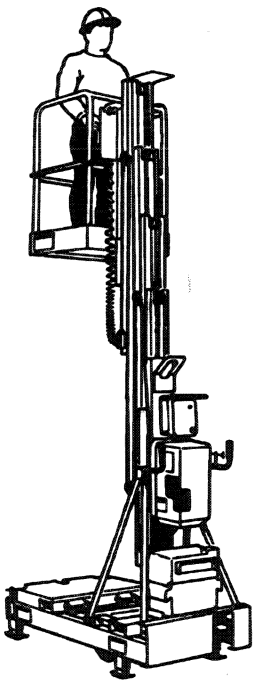
Genie Industries

Technical Publications

Genie® IWP

Operator's Manual



Second Edition, First Printing
Part No. 33425

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.

Contents

	Page
Safety Rules	1
Controls	6
Legend	7
Pre-operation Inspection & Function Tests	8
Operating Instructions	11
Battery and Charger Instructions	12
Maintenance Inspection	14
Decals	16
Transport Instructions	19
Specifications	20

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Genie® Industries

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

♻ Printed on recycled paper.

Printed in U.S.A.

Patents Pending

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 are trained to safely operate the machine.

☑ 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

☑ You inspect the entire machine for possible damage and test all machine functions for proper operation.

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

SAFETY RULES

Tip-over Hazards



Do not move the machine while the platform is raised.

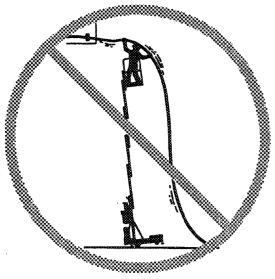
Do not place or attach overhanging loads to any part of this machine.

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	159kg
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.

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.

Improper Use Hazard

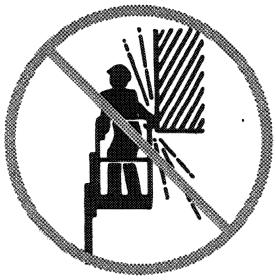
Do not leave machine unattended unless key is removed to secure from unauthorized use.

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.

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 IWP service manual.

Be sure all decals are in place and legible.

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

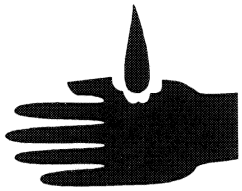
NOTICE Green—used to indicate operation or maintenance information.

Battery and Charger Safety - DC Models

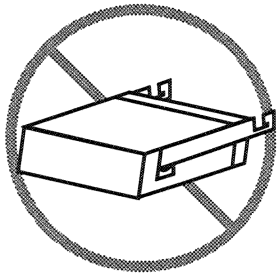
Burn Hazards

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.

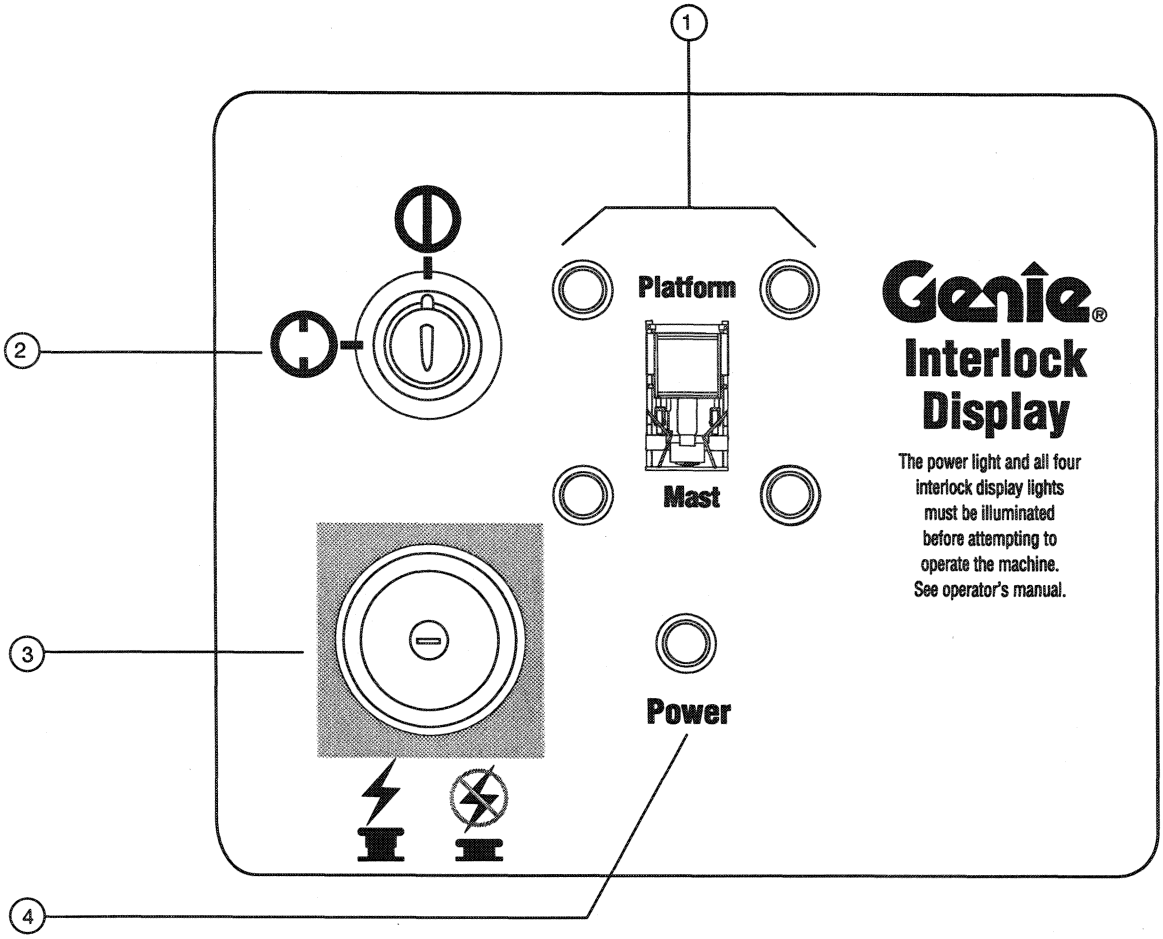
Before each use, inspect for damage. Replace damaged items before operating.

Lifting Hazard

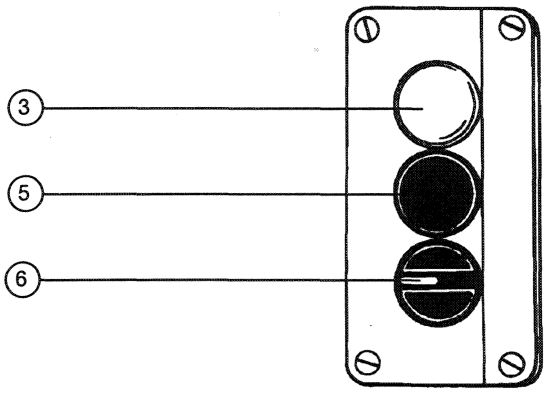
Battery pack weighs 80 lbs (36kg). Two people should lift it together.

Controls

Ground Controls

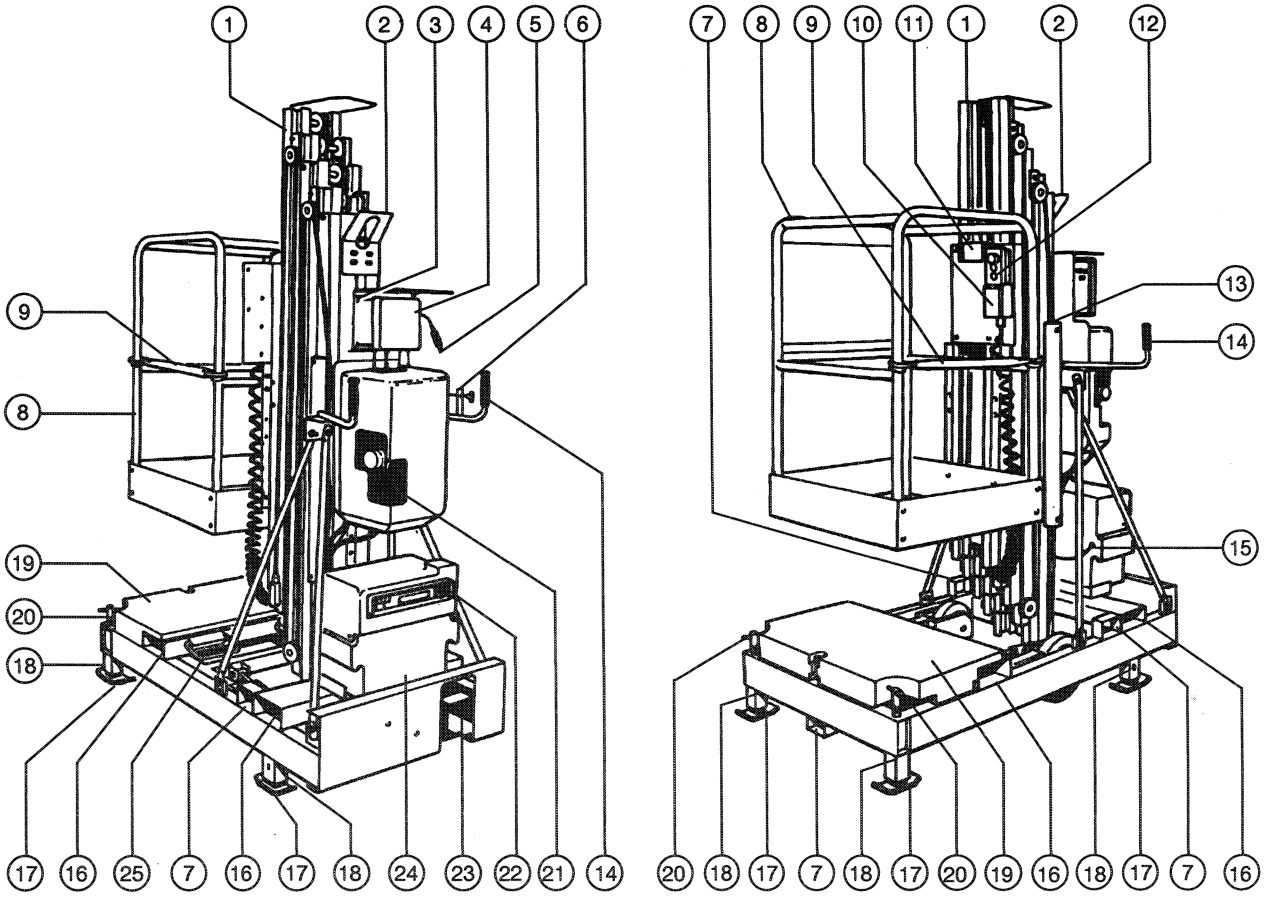


Platform Controls



1 Outrigger interlock display lights (four)
2 Key switch
3 Emergency stop button
4 Power light
5 Control activate button
6 Up/Down switch

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 & Function Tests

Observe and Obey:

☑ Conduct a thorough pre-operation inspection and function test before each work shift.

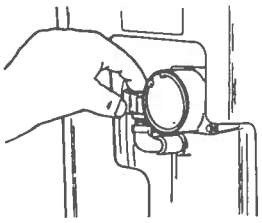
☑ Immediately tag and remove from service a damaged or malfunctioning machine.

☑ Repair any machine damage or malfunctions before operating machine.

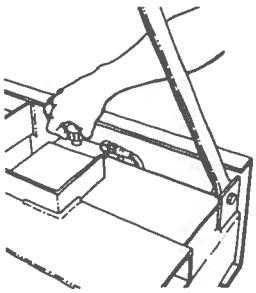
Breather Caps

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

Be sure that all decals are legible and in place.

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

Check for damage and improperly installed 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
- Weld or structural cracks
- Breather caps
- Contact point wear pads

Perform quarterly and annual machine inspections. Keep records for three years. See the Genie IWP service manual for details.

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.

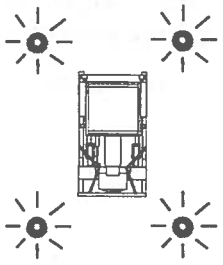
5 Insert the key and turn to the ON position.

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 hand 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.

11 Pump the foot pedal to raise the base.

12 Turn the right hand 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.

PRE-OPERATION INSPECTION & FUNCTION TESTS

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.

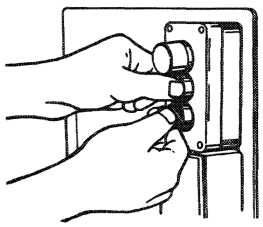
25 Push in the control activate button and rotate the up/down switch to the UP position to raise the platform approximately 6 inches (15 cm).

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.

Operating Instructions

Before Each Use:

☑ Read, understand and obey all safety rules (see *Safety Rules*, page 1).

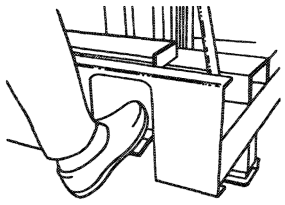
☑ Conduct a thorough pre-operation inspection of the machine (see *Pre-operation Inspection*, page 8).

☑ Test all machine functions for proper operation (see *Function Tests*, page 9).

☑ Repair any machine damage or malfunctions before operating the machine.

Setup

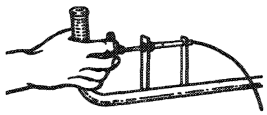
1 Pump the foot pedal to raise base until wheels contact ground.



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).

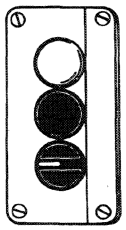
6 Insert key and turn to the ON position.

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.



Manual Lowering

1 Operate from ground only.

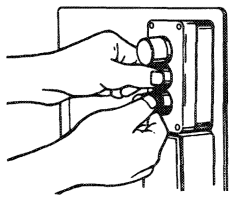
2 Activate the manual lowering valve located on hydraulic power unit to lower platform.

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.



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.

OPERATING INSTRUCTIONS

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.
- ☑ Use only Genie authorized battery and charger.
  CSA applicable model:
  Manual Lester charger 06685
  Automatic Lester charger 15840-90

To Charge Battery

1 **Manual charger models:** Disconnect the battery pack from the machine.

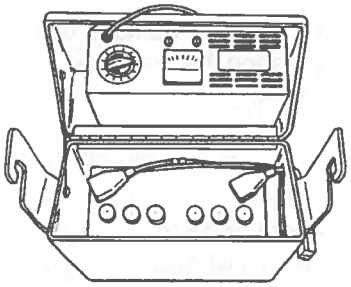
2 Open battery pack lid to access battery.

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.

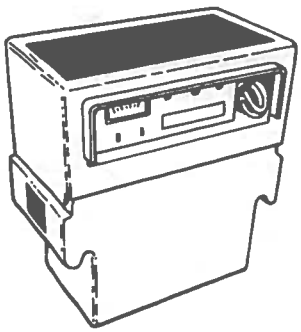
4 Replace the vent caps.

Style A models: Battery pack lid must remain open during entire charging cycle.

Style B models: Battery pack lid can remain open or closed during the charging cycle.



Style A



Style B

5 Connect the battery charger to grounded AC circuit.

6 **Automatic charger models**: Set the power switch to the AUTO position. Charger will start after a short delay.

Manual Charger models: 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 **All models**: The charger will automatically shut off at end of the set period.

Manual charger models: 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.

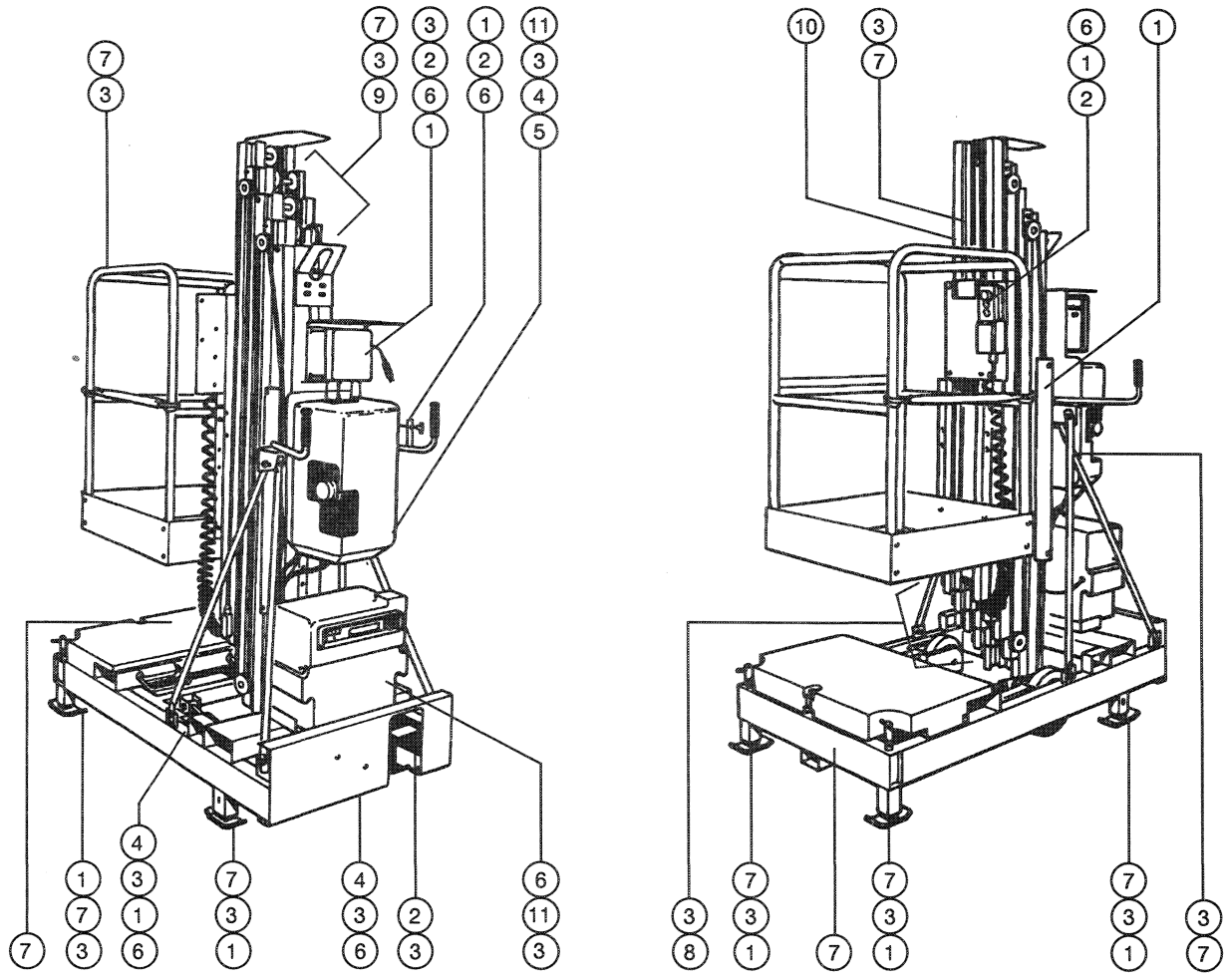
3 Install the vent caps.

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.

Maintenance Inspection

- ☑ The Maintenance Inspection shall be completed daily by a person trained and qualified on the maintenance of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunctions before operating machine.



Daily Check List

Make copies of this checklist to use for each inspection.

	Index No.	
☐		Inspect decals and placards for damage and legibility (see *Decals,* page 14).
☐	1	Inspect and test interlock system.
☐	2	Check operation of all power and function controls.
☐	3	Inspect for damaged, loose or missing parts.
☐	4	Inspect hydraulic components for leaks and damages.
☐	5	Check hydraulic oil level.
☐	6	Check cables and wiring for frays, abrasion or physical damage.
☐	7	Check that all structural and other critical components are present and all fasteners and pins are in place and properly tightened.
☐	8	Inspect lifting chains for proper adjustment.
☐	9	Inspect lifting chains and idler wheels for damage and proper operation.
☐	10	Inspect sequencing cables for damage and proper operation.
☐	11	Inspect and clean battery terminals and all battery cable connections.

Notes: Perform quarterly (or every 150 hours) and annual machine inspections. Keep records for three years. See *Genie IWP Service Manual* for details.

Inspected by

Date

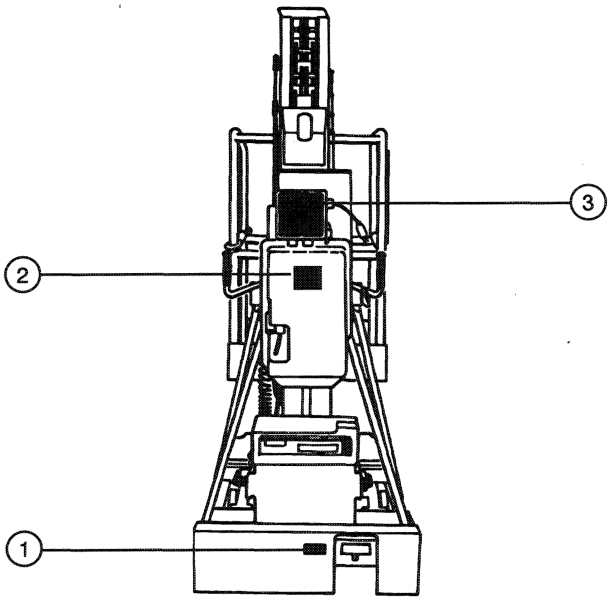
Serial no.

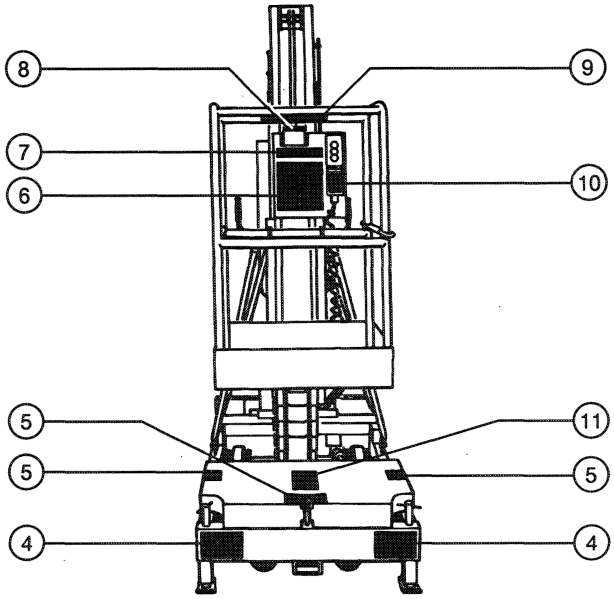
Model ☐ AC ☐ DC ☐ 19 ☐ 24

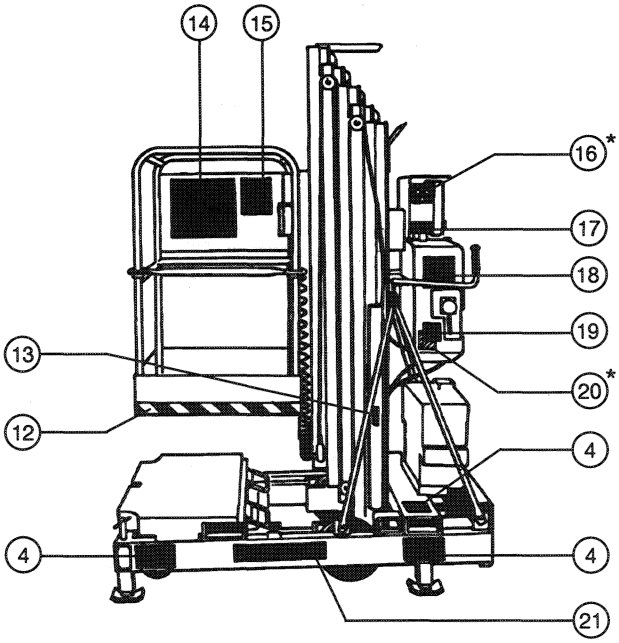
Decals

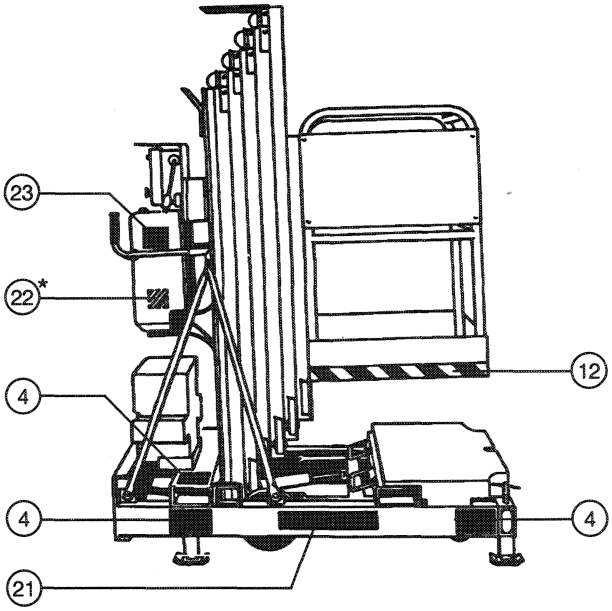
Index	Part No. Decal Description	Quantity
1	31073 Label - Foot Pedal	1
2	31245 Warning - Collision Hazard (runaway lift)	1
3	33598 Label - Interlock Display	1
4	31075 Caution - Crushing Hazard (foot)	8
5	31236 Caution - Foot/Hand Crush	3
6	31239 Notice - Operating Instructions	1
7	31069 Notice - Maximum Capacity, 350 lbs.	1
8	31072 Label - Operator's Manual Storage Container	1
9	31071 Warning - Failure to Read/Obey Manual	1
10	31076 Caution - 8A Maximum, 115V AC	1
11	31077 Caution - Collision Hazard (descending platform)	1
12	1699 Safety Tape	—
13	27865 Label - Bubble Level	1
14	31243 Danger - General Safety	1
15	31237 Notice - Before Each Work Shift	1
16	33597 Label - Fuses (AC models only)	1
17	31074 Label - ANSI/Patents	1
18	27845 Notice - Manual Lowering Lever Caution - Collision Hazard (descending platform) or 32986 Notice - Manual Lowering Knob Caution - Collision Hazard (descending platform)	1 1
19	27857 Caution - Pipe Plug	1
20	28157 Notice - Dexron	1
21	31454 Label - IWP-19 or 31455 Label - IWP-24	2 2
22	27868 Danger - Relief Valve	1
23	31070 Danger - Tip-over Hazard (moving machine)	1
24	31068 Danger - Battery Safety Notice - Battery Charger Instructions	1
25	28372 Caution - Quick Disconnect	1
26	28398 Danger - Battery Safety (manual charger)	1
27	27853 Notice - Battery Charger Instructions	1

DECALS





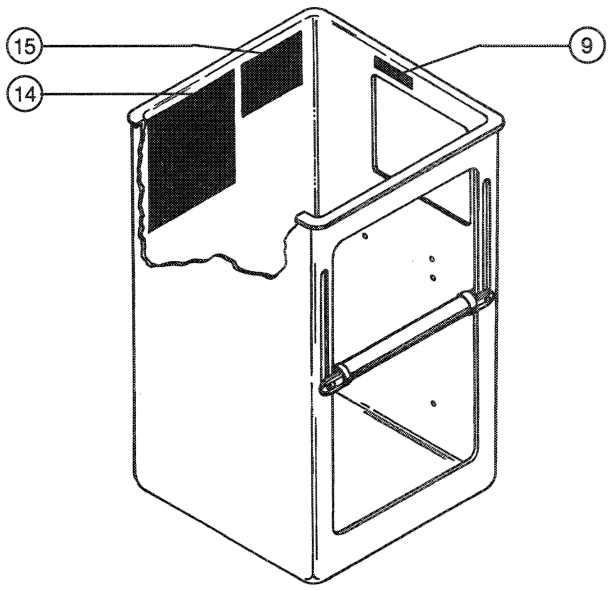




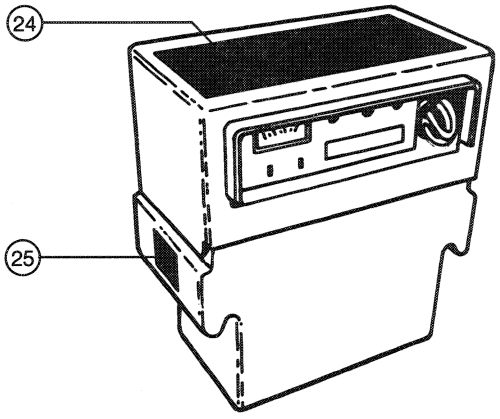
* Decal located under cover

DECALS

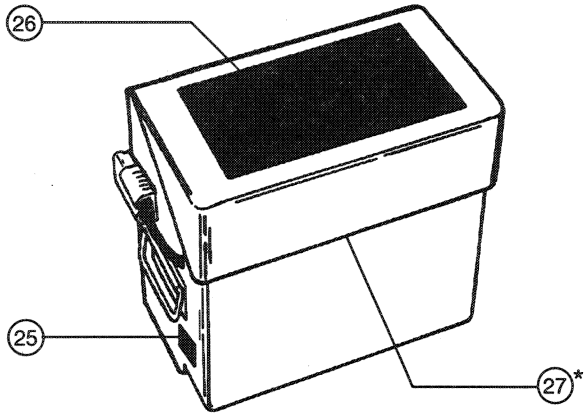
Fiberglass Platform Option



Battery Pack - Automatic Charger



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

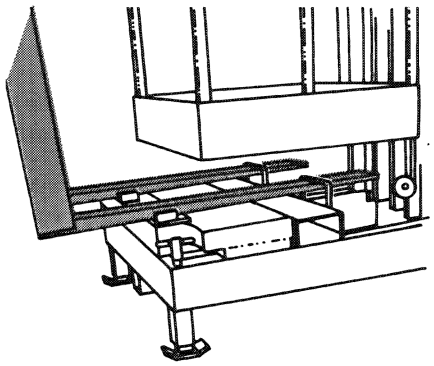
Use the forklift pockets located on the sides of the machine or the forklift rings located behind the counterweight, under the platform.

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

To use the forklift rings:

1 Raise the platform 3 inches (7.5cm).

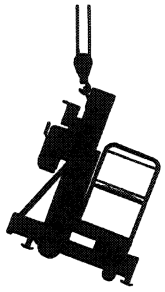
2 Position the forklift rings in the UP position.



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 7.7m	29 ft 10 in 9.1m
Height, platform maximum	19 ft 4 in 5.8m	23 ft 10 in 7.2m
Lift capacity	350 lbs 159kg	350 lbs 159kg
Power source DC model AC model	 12V 110V or 220V	 12V 110V or 220V
Machine weight (DC/AC models)	1111/1050 lbs 505/477kg	1311/1250 lbs 596/568kg
Height, stowed*	77 in/79 in 195/200cm	77 in/79 in 195/200cm
Width	32 in 81cm	32 in 81cm
Length	59.5 in 151cm	59.5 in 151cm
Platform length	26 in 66cm	26 in 66cm
Platform width	26 in 66cm	26 in 66cm
Platform height	43 in 106cm	43 in 106cm
Corner access**	6 in 15cm	6 in 15cm

* 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.



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