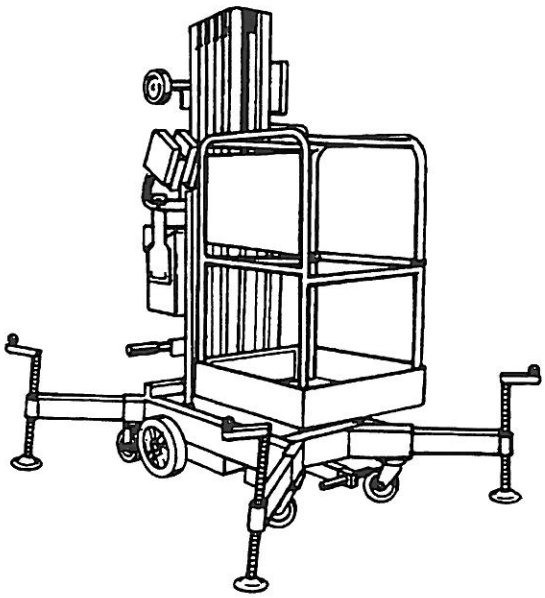
Genie Industries

Technical Publications

Genie® AWP

Operator's Manual



Third Edition, Second Printing
Part No. 31257

Genie® AWP

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. 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	10
Battery and Charger Instructions	11
Transport Instructions	12
Tilt-back Operation Instructions	14
Maintenance Inspection	16
Decals	18
Specifications	21

Genie North America

Telephone (206) 881-1800
Toll Free 800 536-1800 in U.S.A.
Toll Free 800 426-8089 in Canada
Fax (206) 883-3475

Genie Europe

Telephone (44) 0636-813943
Fax (44) 0636-815270

Genie Industries

Copyright © 1993 by Genie Industries

Third Edition: First Printing, March 1993
Second Printing, June 1994

Genie® is a registered trademark of Genie Industries

Registered 2009987

U.S.A. Patent No. 5,121,816
U.S.A. Patent No. 5,105,913

Printed on recycled paper

Printed in U.S.A.

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 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, a breather cap is installed (see *Breather Cap*, page 8).

SAFETY RULES

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.

Maximum capacity		
AWP-19	300 lbs	136kg
AWP-24	300 lbs	136kg
AWP-30	300 lbs	136kg
AWP-36	250 lbs	113kg
Maximum occupancy		1 person

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.

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

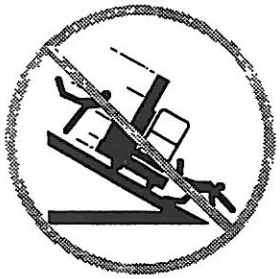
Collision Hazards

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 machine.

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 AWP service manual.

Be sure all decals are in place and legible.

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

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

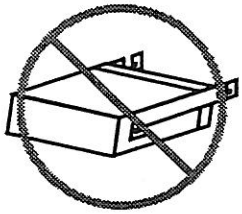
Burn Hazards

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 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.

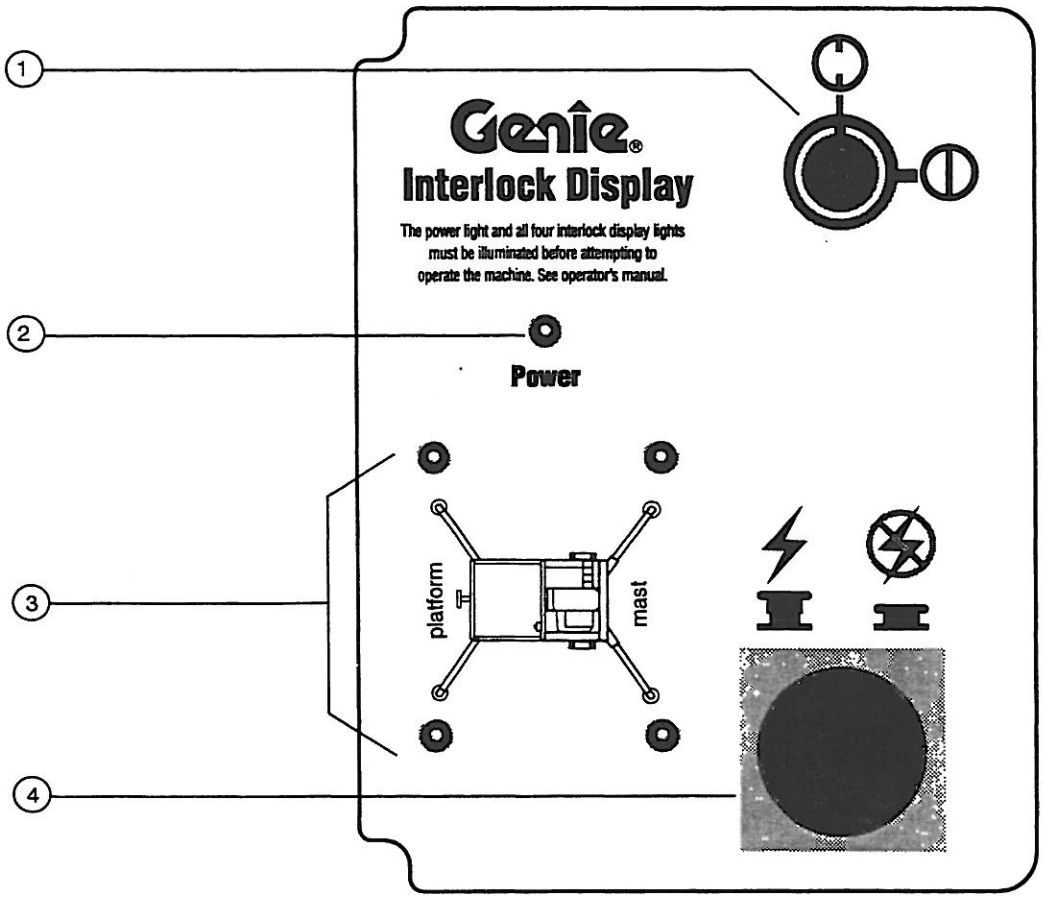
Before each use, inspect for damage. Replace damaged items before operating.

Lifting Hazard

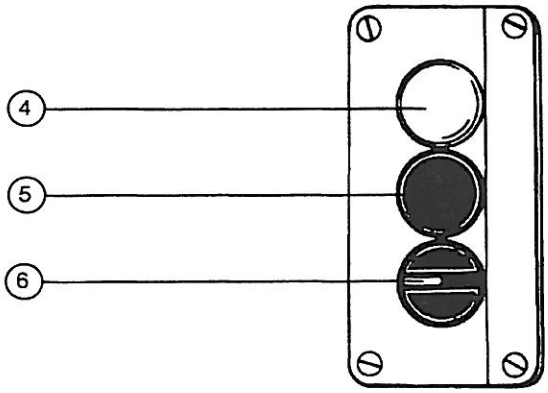
Battery pack weighs 80 lbs (36kg). Two people should lift it together.

Controls

Ground Controls

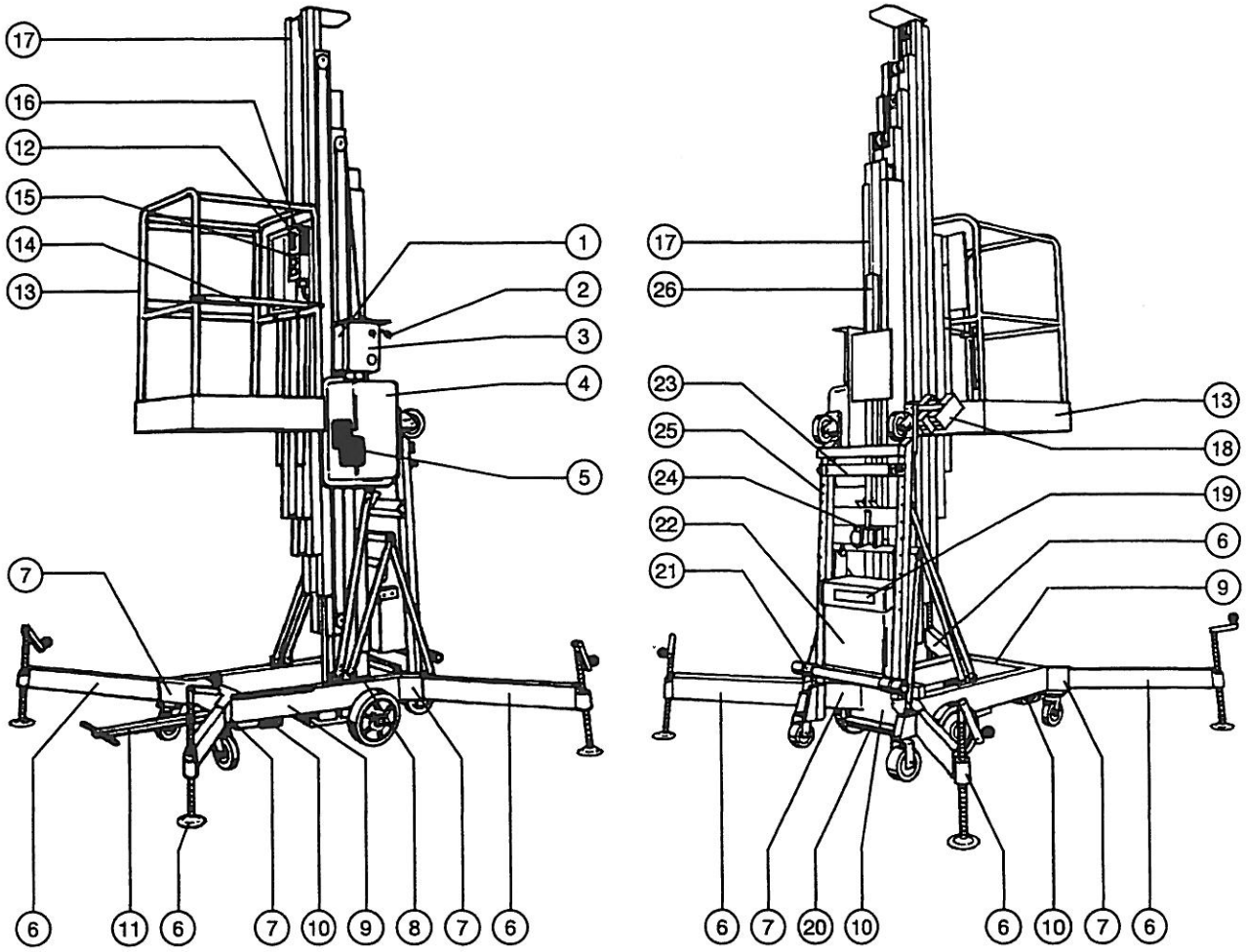


Platform Controls



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

Legend



Model shown is a Genie AWP-36 and is representative of all AWP models.

1 Fuse(s)
2 AC power supply cord
3 Ground controls
4 Hydraulic power unit
5 Manual lowering valve
6 Outrigger with leveling jack
7 Base outrigger socket
8 Bubble level
9 Base
10 Transport tie down
11 Sliding T-handle
12 Operator's manual storage container
13 Platform
14 Platform entry mid-rail
15 AC outlet
16 Platform controls
17 Mast
18 Outrigger storage socket
19 Battery charger (DC models)
20 Forklift pocket
21 Loading pivot bar
22 Battery pack (DC models)
23 Loading stop bracket
24 Retaining pin (Genie AWP 30 & 36)
25 Tilt-back frame (Genie AWP 30 & 36)
26 Tilt-back strut (Genie AWP 30 & 36)

Pre-operation Inspection & Function Tests

Observe and Obey:

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

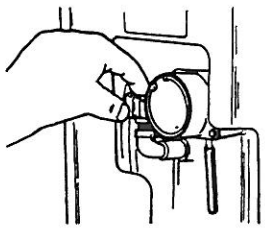
☑ Immediately tag and remove from service a damaged or malfunctioning machine.

☑ Repair any machine damage or malfunctions before operating machine.

Breather Cap

Component damage will occur if the machine is operated without a breather cap.

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



A breather cap is 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 cylinder
- Platform entry mid-rail
- Sequencing cables and pulleys
- Lifting chains and idler wheels
- Nuts, bolts and other fasteners
- Weld or structural cracks
- Mast columns and counterweight
- Breather cap
- Outriggers, leveling jacks and footpads

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

Function Tests

1 Select a test area free of obstructions.

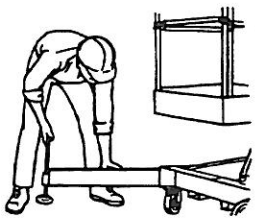
2 Connect appropriate power source.

3 Turn the key switch to the ON position.

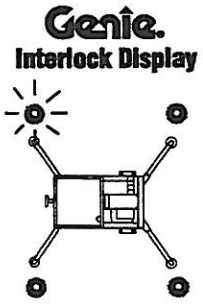
⊙ Result: The power light should come on.

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

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.



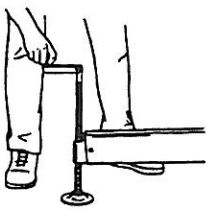
6 Check the interlock display lights at the ground controls. Confirm that the corresponding light is on.

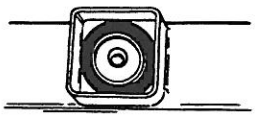


7 Repeat procedure for each of the remaining outriggers.

Test Emergency Stop

8 Use the bubble level and adjust leveling jacks until the machine base is level.

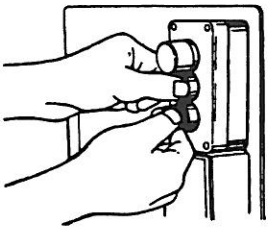




9 Twist to release the red Emergency Stop button at the platform controls.

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 Outrigger Interlock

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

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

⊙ Result: Up/Down functions should operate.

17 Unscrew one leveling jack until the corresponding interlock display light turns off.

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

18 Return the leveling jack to previous setting and check the bubble level.

19 Repeat procedure for each outrigger.

Test Manual Lowering

20 Raise platform slightly.

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

⊙ Result: Platform should descend.

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

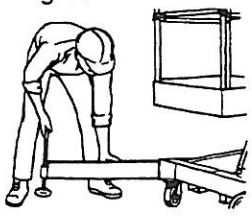
1 Position machine on a firm, level surface directly below desired work area.

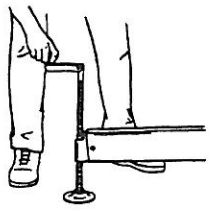
2 Connect to appropriate power source:
DC models: Connect battery pack.
AC models: Connect to a grounded 15A AC power supply. Use a 12 gauge (3.3mm²) 3-wire grounded extension cord no longer than 50 feet (13m).

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.

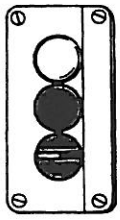




6 Check the interlock display. Be sure that all four interlock display lights are on.

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.

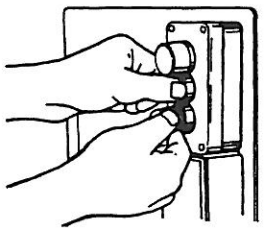
2 Activate manual lowering valve located on hydraulic power unit to lower platform.

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 Chock wheels to prevent machine from rolling.

3 Remove key to secure from unauthorized use.

4 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.

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

To Charge Battery

1 Disconnect the battery pack from the machine.

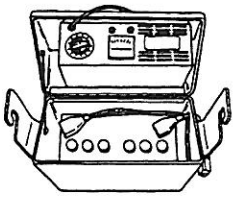
2 Open battery pack lid to access battery.

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.

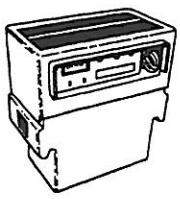
4 Replace the vent caps.

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.

OPERATING INSTRUCTIONS

Transport Instructions

Observe and Obey:

- ☑ 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.
- ☑ Lifting force needed to tilt machine onto transport vehicle requires two people.
- ☑ Machine must be securely fastened to transport vehicle.
- ☑ Be sure to lock both swivel casters on tilt-back frame (Genie AWP-30 & 36).
- ☑ Do not transport with the tilt-back frame in the lowered position.

Loading for Transport

Be sure vehicle capacity and loading surfaces are sufficient to support machine weight (see *Specifications*, page 21).

1 Fully lower platform.

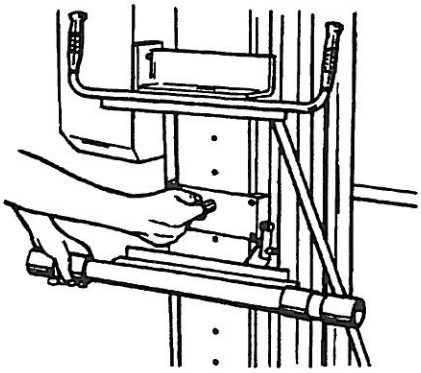
2 Push in red Emergency Stop buttons, turn key switch to the OFF position and remove key.

3 Remove outriggers from base and place in storage sockets.

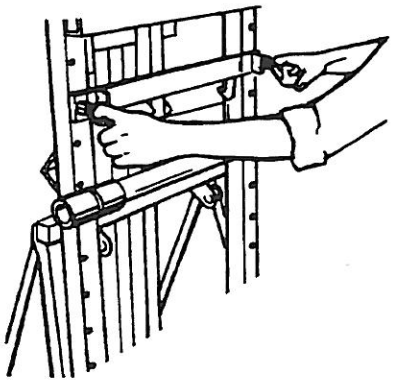
4 DC models: Disconnect battery cable and remove battery pack.

5 Inspect entire machine for loose or unsecured items.

6 Slide the stop bracket to the top lock position.



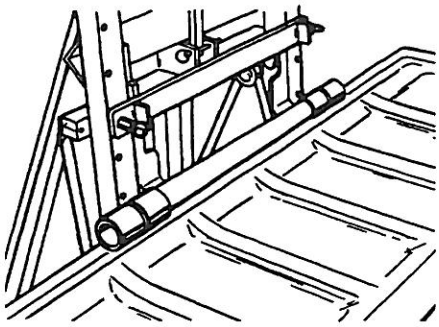
Genie AWP-19 & 24



Genie AWP-30 and 36

6 Hook loading pivot to stop bracket.

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



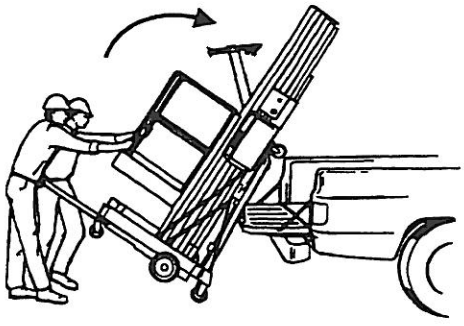
8 AWP 30 and 36 models:

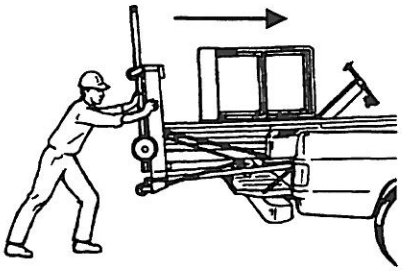
Be sure both stop bracket lock pins are fully engaged.

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

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

10 Two people should lift T-handle to tilt machine onto loading surface.





11 Carefully push machine into transport position.

12 Return sliding T-handle to stowed position.

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

14 Reverse procedure to unload.

OPERATING INSTRUCTIONS

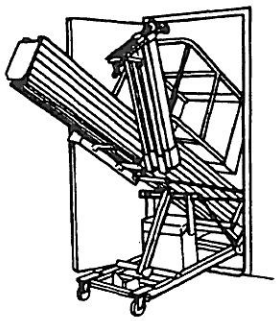
Tilt-back Operation Instructions

Observe and obey:

- ☑ Retaining pin must be inserted to prevent spring loaded tilt-back frame from dropping.
- ☑ Do not tilt the machine back unless area is clear of personnel and obstructions.
- ☑ Do not stand behind or under tilt-back frame when raising or lowering it.
- ☑ Lifting force necessary requires two people.

Tilt-back Frame

The Genie AWP-30 & 36 have a tilt-back frame which allow the machine to roll through a standard doorway.

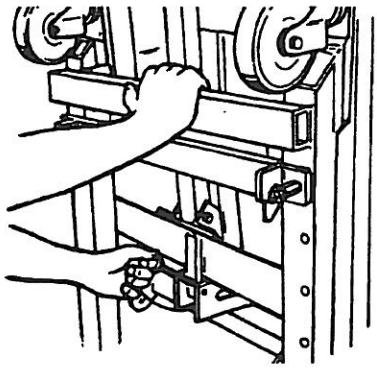


Lowering Tilt-back Assembly

1 Be sure area behind machine and under tilt-back frame is clear of personnel and obstructions.

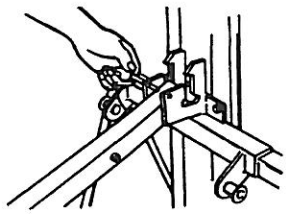
2 Remove outriggers from base and place in storage sockets.

Tiit-back frame is spring loaded and will immediately fall outward when retaining pin is removed. Maintain firm grasp on tilt-back frame and remove retaining pin.



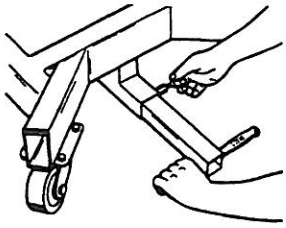
3 Lower tilt-back frame and guide the tilt-back strut into the strut socket.





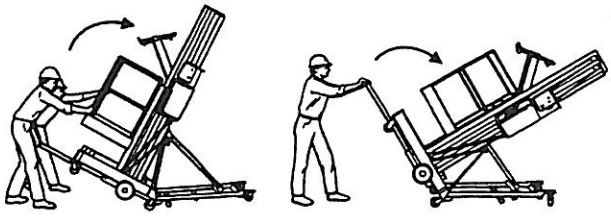
4 Insert retaining pin into strut socket.

Tilting back Machine



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

2 Two people should lift the machine with the T-handle to mid-tilt position—casters on tilt-back frame contact floor, and machine supported by extended tilt-back strut.



3 Continue lifting until telescoping tilt-back strut is completely compressed.

Returning Machine To Standing Position

1 Be sure area below machine base and T-handle is clear of personnel and obstructions.

2 Carefully pull down T-handle until machine rests at mid-tilt position.

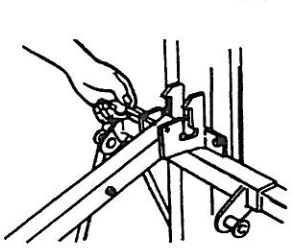


3 Two people should lower the machine with the T-handle until base casters are in contact with ground.

4 Return sliding T-handle to stowed position.

Stowing Tilt-back Assembly

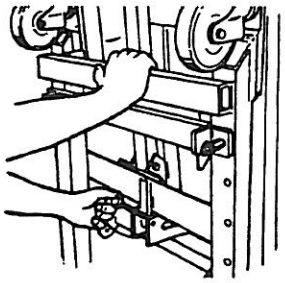
1 Remove retaining pin.





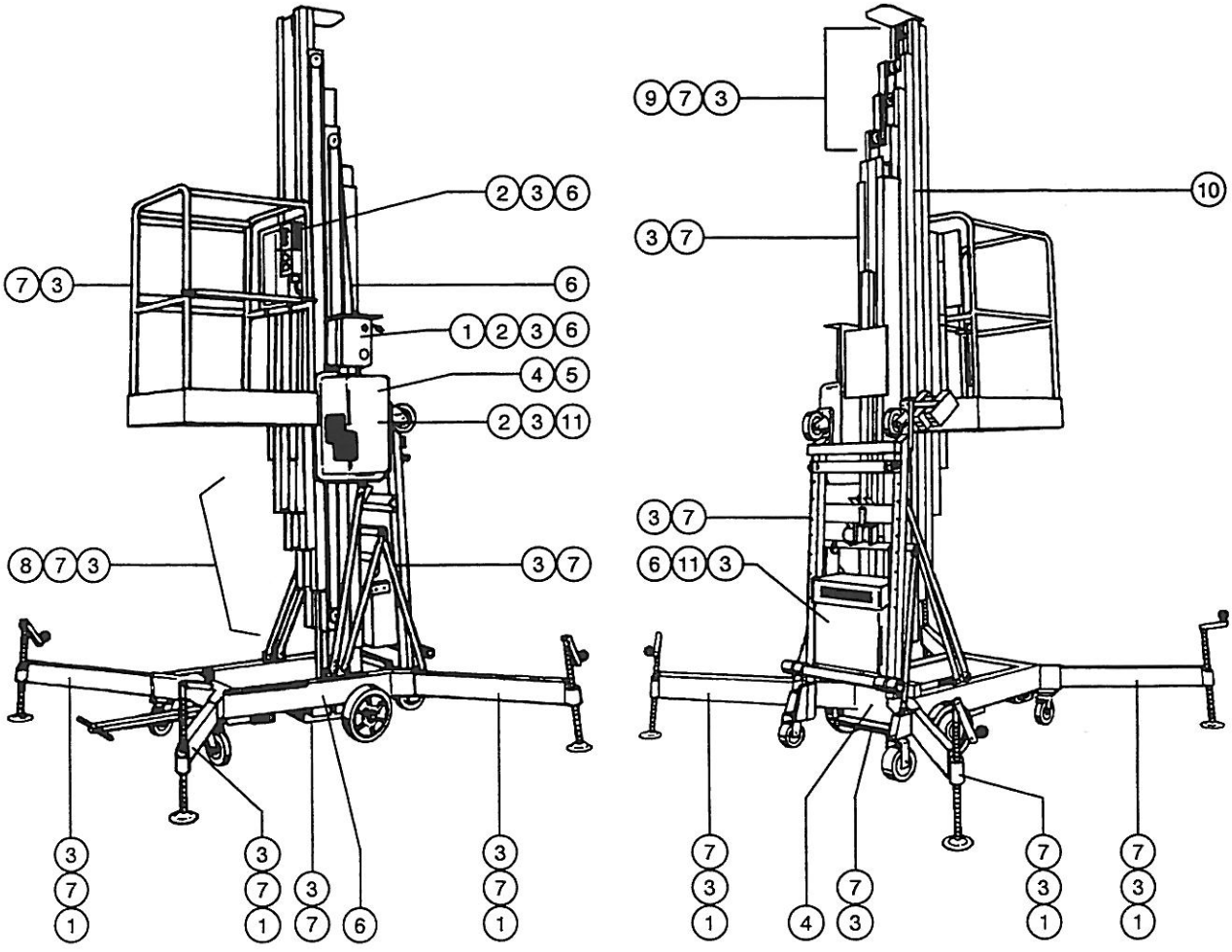
2 Firmly grasp tilt-back frame and remove tilt-back strut from strut socket.

3 Lift tilt-back frame, hold in upright position against spring and secure with retaining pin.



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.			Index No.	
☐		Inspect decals and placards for damage and legibility (see *Decals,* page 18).	☐	7	Check that all structural and other critical components are present and all fasteners and pins are in place and properly tightened.
☐	1	Inspect and test outrigger interlock system.	☐	8	Inspect lifting chains for proper adjustment.
☐	2	Check operation of all power and function controls.	☐	9	Inspect lifting chains and idler wheels for damage and proper operation.
☐	3	Inspect for damaged, loose or missing parts.	☐	10	Inspect sequencing cables for damage and proper operation.
☐	4	Inspect hydraulic components for leaks and damages.	☐	11	Inspect and clean battery terminals and all battery cable connections.
☐	5	Check hydraulic oil level.			
☐	6	Check cables and wiring for frays, abrasion or physical damage.			

Notes: Perform quarterly (or every 150 hours) and annual machine inspections. Keep records for three years. See the Genie AWP service manual for details.

Inspected By

Date

Serial No.

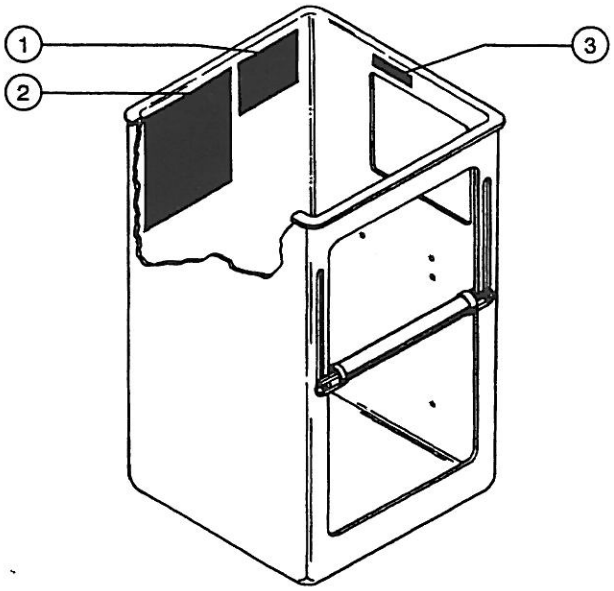
Model ☐ AC ☐ DC ☐ 19 ☐ 24 ☐ 30 ☐ 36

Decals

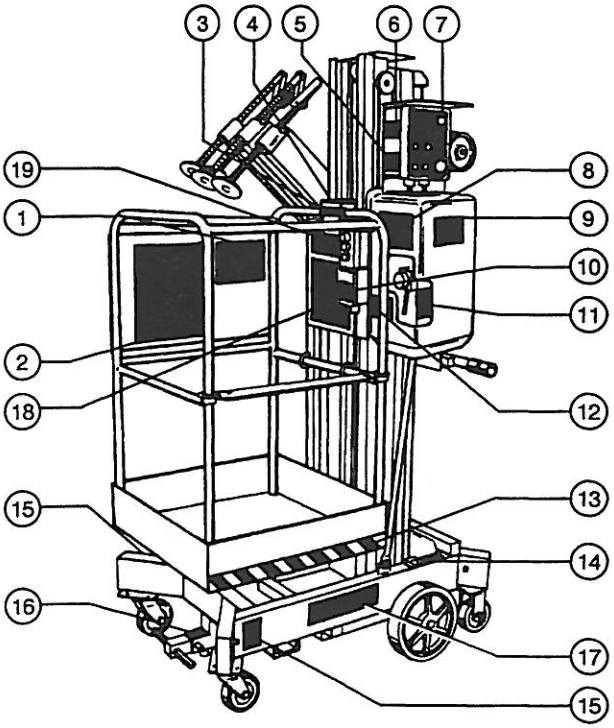
Index	Part No. / Decal Description	Quantity
1	31237 Notice - Before Each Work Shift	1
2	31243 Danger - General Safety	1
3	31071 Warning - Failure to Read/Obey Manual	1
4	31072 Label - Operator's Manual Storage Container	1
5	31074 Label - ANSI/Patents	1
6	27849 Label - DC Fuse Location or 27855 Label - AC Fuse Location	1 1
7	31241 Label - Interlock Display	1
8	27845 Notice - Manual Lowering Lever Caution - Collision Hazard (descending platform) or 32986 Notice - Manual Lowering Knob Caution - Collision Hazard (descending platform)	1 1
9	31245 Warning - Collision Hazard (runaway lift)	1
10	31076 Caution - 8A Maximum, 115V AC	1
11	28157 Notice - Dexron	1
12	27857 Caution - Pipe Plug	1
13	1699 Safety Tape	—
14	27865 Label - Bubble Level	1
15	27863 Caution - Component Damage Hazard	3
16	27839 Label - Sliding T-handle	1
17	31311 Label - AWP-19 or 31312 Label - AWP-24 or 31452 Label - AWP-30 or 31453 Label - AWP-36	2 2 2 2
18	31067 Notice - Operating Instructions	1
19	27870 - Genie AWP-19, 24 & 30 only Notice - Maximum Capacity, 300 lbs. or 27869 - Genie AWP-36 only Notice - Maximum Capacity, 250 lbs.	1 1
20	27872 Danger - Tip-over Hazard (outriggers)	1
21	27841 Label - Stop Bracket	1
22	27842 Label - Loading Pivot	1
23	27864 Notice - Lower Stop Bracket before ...	1
24	27868 Danger - Relief Valve	1
25	27867 Label - Swivel Lock	2
26	27873 Notice - Maintain firm grasp on ...	1
27	27844 Label - Strut Socket	1
28	27840 Label - Retaining Pin	1
29	27843 Label - Tilt-back Strut	1

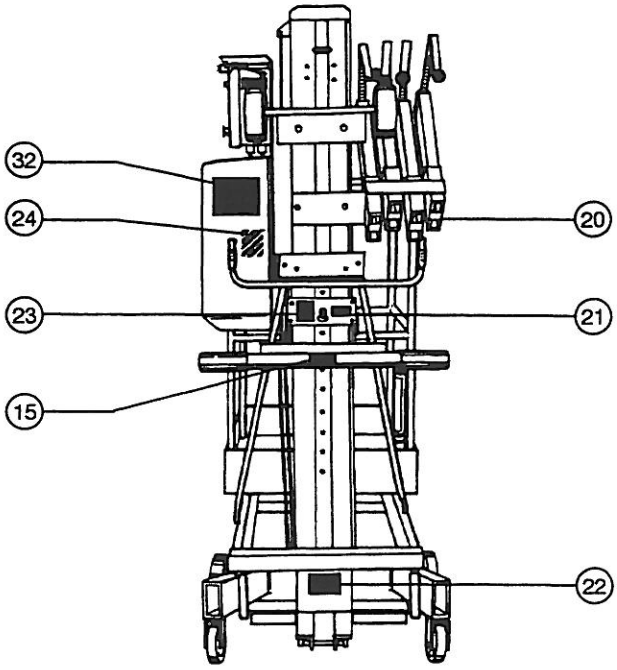
Index	Part No. / Decal Description	Quantity
30	27838 Warning - Tilt-back Hazards Notice - Tilt-back Instructions	1
31	27874 Label - Insert retaining pin into ...	1
32	31070 Danger - Tip-over Hazard (moving machine)	1
33	31068 Danger - Battery Safety Notice - Battery Charger Instructions	1
34	28372 Caution - Quick Disconnect	1
35	28398 Danger - Battery Safety (manual charger)	1
36	27856 Caution - Component Damage (manual charger)	1
37	27853 Notice - Battery Charger Instructions	1

Fiberglass Platform Option



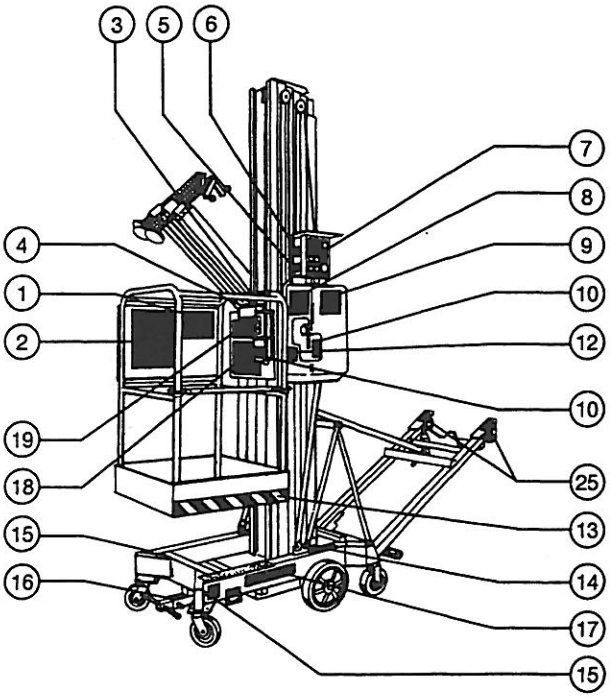
AWP-19 & 24

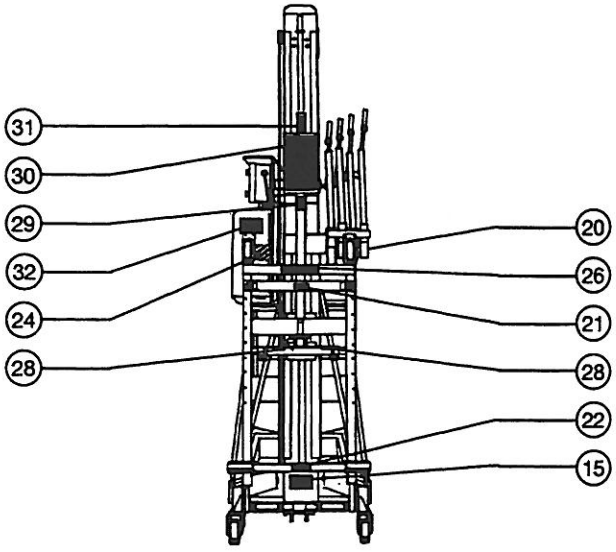




DECALS

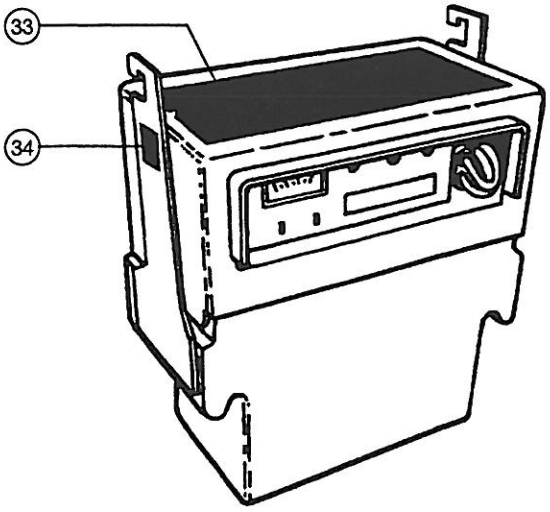
AWP-30 & 36

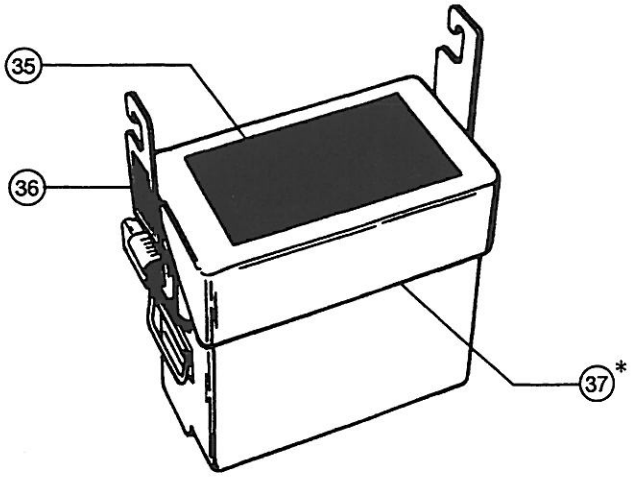




Battery Pack - Automatic Charger

Battery Pack - Manual Charger





*This decal is visible when battery pack cover is raised.

Specifications

Model	AWP-19	AWP-24	AWP-30	AWP-36
Height, working maximum	25 ft 6 in 7.8m	30 ft 9.1m	36 ft 11.0m	42 ft 12.8m
Height, platform maximum	19 ft 6 in 5.9m	24 ft 7.3m	30 ft 9.1m	36 ft 11.0m
Lift capacity	300 lbs 136kg	300 lbs 136kg	300 lbs 136kg	250 lbs 113kg
Power source DC model AC model	 12V 110V or 220V	 12V 110V or 220V	 12V 110V or 220V	 12V 110V or 220V
Machine weight (DC / AC models)	694 / 623 lbs 315 / 283kg	717 / 639 lbs 325 / 290kg	866 / 788 lbs 393 / 357kg	940 / 868 lbs 426 / 394kg
Height, stowed	79 in 200cm	79 in 200cm	93 in 236cm	112 in 284cm
Width	29 in 74cm	29 in 74cm	29 in 74cm	29 in 74cm
Length	47.5 in 120.6cm	47.5 in 120.6cm	51.5 in 130.8cm	51.5 in 130.8cm
Platform length	26 in 66cm	26 in 66cm	26 in 66cm	26 in 66cm
Platform width	26 in 66cm	26in 66cm	26 in 66cm	26 in 66cm
Platform height	43 in 106cm	43 in 106cm	43 in 106cm	43 in 106cm
Outrigger footprint	65 x 58 in 164 x 146.5cm	65 x 58 in 164 x 146.5cm	75 x 73 in 190.5 x 185.5cm	81 x 81 in 205 x 205cm

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



U.S.A.

18340 NE 76th Street

P.O. Box 69

Redmond, Washington

98073-0069



Europe

Market Place

Southwell,

Nottinghamshire

NG25 OHE England