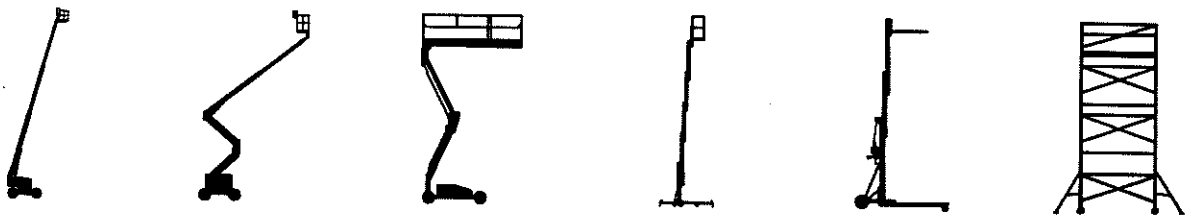
Genie Industries

Genie AWP Operating Instruction Manual



Second Edition

Part No. 27871

Genie AWP

Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized operators shall be permitted to operate this machine. If you have any questions regarding the operation of this machine, call Genie Industries.

Contents

Genie Industries

U.S.A.

Telephone (206) 881-1800

Toll Free 800 426-8089

Fax (206) 883-3475

Telex 152351

Canada

Telephone (604) 984-4242

Toll Free 800 426-8089

Fax (604) 988-2662

Europe

Telephone (44) 0636-813943

Fax (44) 0636-815270

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 properly trained to safely operate the machine.
- You read, understand and obey:
  - manufacturer's instructions and safety rules—Operating Instruction Manual and machine decals
  - employer's safety rules
  - 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 7).

SAFETY RULES

Tip-over And Fall Hazard

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

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

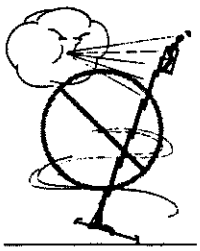
Do not adjust or remove outriggers while platform is occupied or elevated.

Do not move the machine while elevated.

Do not use machine on a mobile surface.

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

Prior to use, check work area for drop-offs, holes, bumps, debris, unstable or slippery surfaces or other possible hazardous conditions.



Do not elevate platform in strong or gusty winds.

Do not exceed rated platform load capacity.

Do not elevate lift with more than one person in platform.

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

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

Do not modify machine in any way that affects stability.

Do not alter or disable outrigger interlock system, platform entry mid-rail or relief valve setting.

Lower platform access mid-rail before operating.

Do not climb down from platform. If a power failure should occur, obtain help from ground personnel.

When using a forklift or other transport vehicle, machine should be turned off and no personnel should remain in platform.

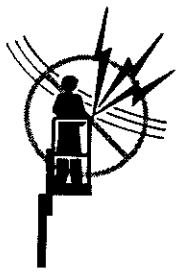
Keep platform floor clear of debris.

Collision Hazard

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

Stay clear of descending platform when operating emergency lowering lever.

Check work area for overhead obstructions or other possible hazards.



Electrocution Hazard

This machine is not electrically insulated and will not provide protection from contact with or proximity to an electrically charged power lines.

Be aware of machine working height and maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and Operating Instruction Manual.

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 beware of strong or gusty winds.

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

Do not use machine as a ground for welding.

Damaged Machine Hazard

Do not operate unless you have inspected the entire machine for damage and tested all functions for proper operation.

Do not use a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in the Operating Instruction and Service Manuals.

Be sure all decals are in place and legible (see *Decals*, page 16).

Be sure Operating Instruction Manual is legible and in the storage container located on platform.

Component Damage Hazard

Do not operate the machine unless a breather cap has been installed in the hydraulic reservoir (see *Breather Cap*, page 7).

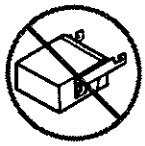
SAFETY RULES

Battery and Charger Safety - DC Models

Burn Hazard

Battery contains 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. Always remove battery pack before laying machine down for transport.

Do not expose battery or charger to water or rain.

Lifting Hazard

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

Explosion Hazard

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

The battery pack lid must remain open during charging.

Electrocution Hazard

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

Inspect daily for damaged cord, cables and wires.

Replace damaged items before operating.

Tilt-back Safety AWP-30 & 36

Crushing Hazard

Retaining pin must be inserted to prevent spring loaded tilt-back frame from dropping.

Do not tilt machine back unless area is clear of personnel and obstructions.

Keep feet clear of tilt-back frame fall path.

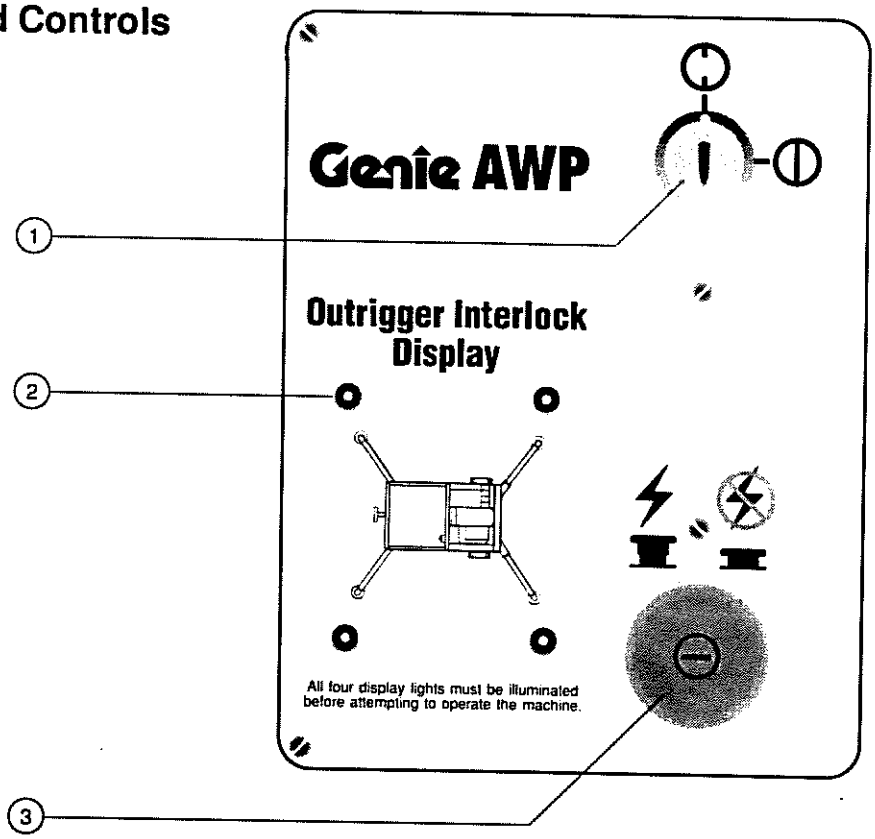
Do not allow tilt-back frame to drop.

Lifting Hazard

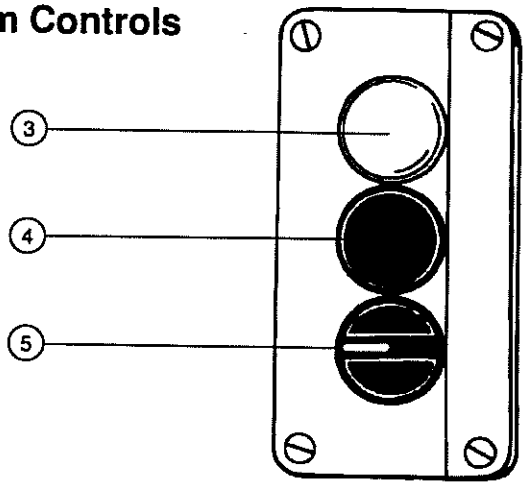
Lifting force necessary to tilt machine back requires two people.

Legend

Ground Controls



Platform Controls



1 Key switch

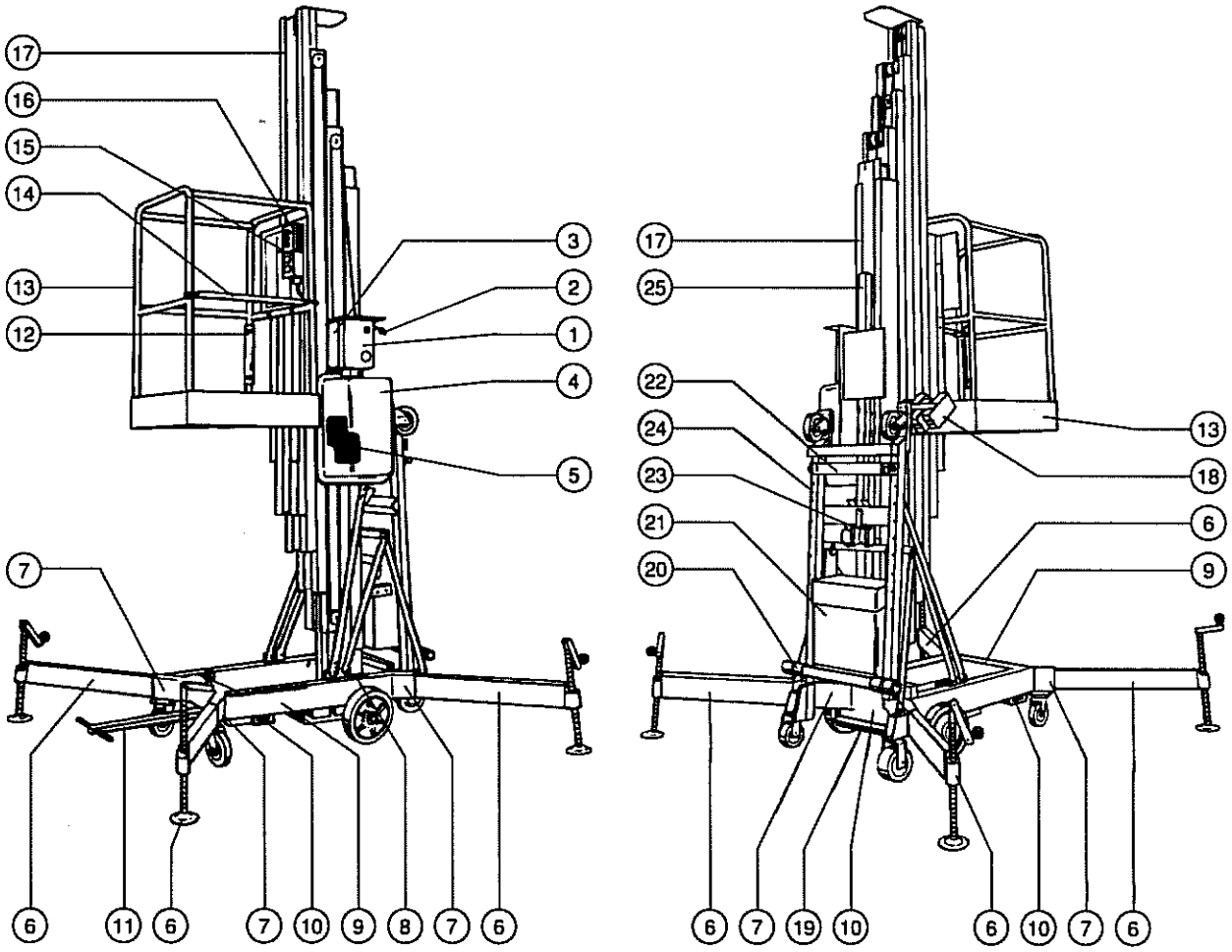
2 Outrigger interlock display lights (four)

3 Emergency stop button

4 Control activate button

5 Elevate up/down switch

LEGEND

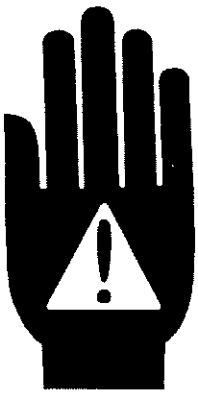


t Ground controls
2 AC line
3 Fuses
4 Hydraulic power unit
5 Emergency down lever
6 Outrigger with leveling jack
7 Base outrigger socket
8 Bubble level
9 Base
10 Transport tie down
11 Sliding T-handle
12 Operating instruction storage tube
13 Platform
14 Platform entry mid-rail
15 AC extension line outlet (where available)
16 Platform controls
17 Mast
18 Outrigger storage sockets
19 Forklift pockets
20 Loading pivot bar
21 Battery pack (DC models)
22 Loading stop bracket

AWP-30 & 36

23 Retaining pin for tilt-back frame and strut
24 Tilt-back frame
25 Tilt-back strut

Pre-operation Inspection & Function Tests



Observe And Obey:

- Conduct a thorough walk-around inspection and function test before each use.
- Immediately tag and remove from service a damaged or malfunctioning machine.
- Repair any machine damage or malfunctions before operating machine.

Walk-around inspection

Be sure all decals and the Operating Instruction Manual are legible and in place (see *Decals*, page 16).

Check for damage & improperly installed or missing parts:

- Electrical components, wiring and electrical cables
- Hydraulic hoses and fittings
- Sequencing cables
- Lifting chains
- Nuts bolts and other fasteners
- Platform entry mid-rail
- Weld or structural cracks
- Breather cap

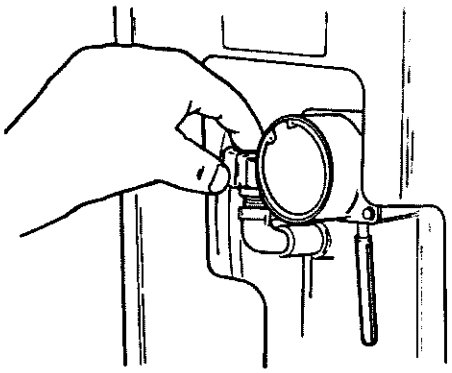


Figure 1

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 filler-elbow must be removed and permanently replaced with a breather cap (figure 1).

A breather cap is supplied and may be found in an envelope taped to the mast near the platform controls.

PRE-OPERATION INSPECTION & FUNCTION TESTS

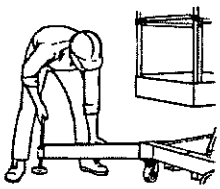


Figure 1

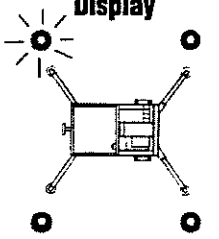


Figure 2

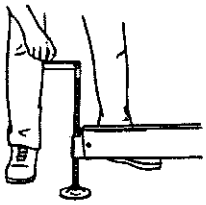


Figure 3

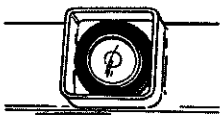


Figure 4

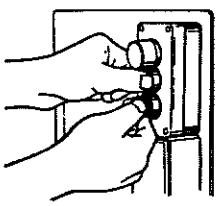


Figure 5

Function Tests

Select a test area free of obstructions.

Connect appropriate power source.

Insert key and turn to "on" position.

Pull out red Emergency Stop button.

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 (figure 1).

Check the interlock display lights at the ground controls. Confirm that the corresponding light is on (figure 2).

Repeat procedure for each of the remaining outriggers.

Test Emergency Stop

Use the bubble level and adjust leveling jacks until machine base is level (figures 3 & 4).

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

Push in Emergency Stop button at the ground controls.

- Elevate up/down functions should **not** operate (figure 5).

Push in the Emergency Stop button at the platform controls.

Pull out Emergency Stop button at the ground controls.

- Elevate up/down functions should **not** operate.

Test Outrigger Interlock

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

Pull out Emergency Stop button at the ground controls.

- Elevate up/down functions should operate.

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

- Elevate up/down functions should **not** operate.

Return leveling jack to previous setting.

Repeat procedure for each outrigger.

Test Emergency Lowering

Elevate platform slightly.

Pull out red emergency lowering lever on power unit (figure 6).

- Platform should descend.

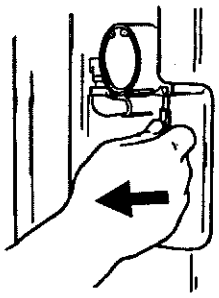


Figure 6

Operating Instructions

Before Each Use:

- Conduct a thorough walk-around inspection of the machine (see *Walk-around Inspection*, page 7).
- Test all machine functions for proper operation (see *Function Tests*, page 8).
- Repair any machine damage or malfunctions before operating the machine.

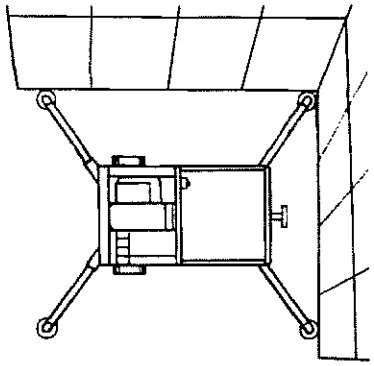


Figure 1

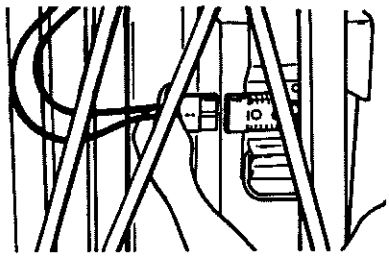


Figure 2

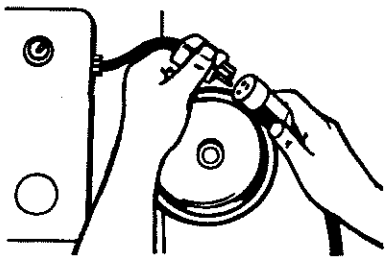


Figure 3

Setup

Position machine on firm, level surface directly below desired work area (figure 1, suggestion for setup in a corner).

Connect to appropriate power source:

- DC Models (figure 2)
- AC Models (figure 3) — Use a 12 gauge (3.3mm^2) 3-wire industrial grade extension cord—50 ft. (12.7m) maximum length—to reach a grounded 15A AC supply.

Insert key and turn to "on" position.

Pull out red Emergency Stop button.

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

Be sure that all four outrigger interlock display lights are illuminated before attempting to operate the machine.

Emergency Stop

Push in either red Emergency Stop button to stop all functions.

Emergency Lowering

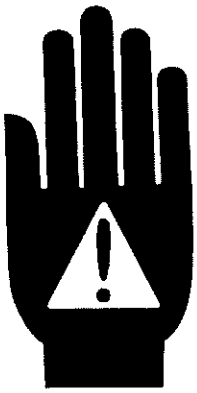
Emergency lowering activated from ground only.

Pull out emergency lowering lever and stay clear of descending platform.

Elevate Up/Down

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

OPERATING INSTRUCTIONS



Battery Charger DC Models

- Do not operate the machine with a discharged battery.
- Do not operate machine with the battery charger plugged in.
- Do not use external charger or booster battery.
- Recharge battery after each shift.

To Charge Battery

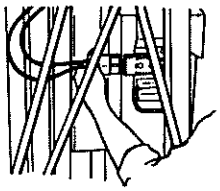


Figure 1

Disconnect battery pack from machine (figure 1).

Open battery pack lid to access charger and battery. Lid must remain open for the entire charging cycle (figure 2).

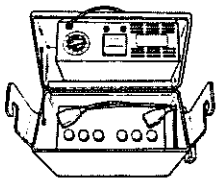


Figure 2

Remove battery caps and check battery acid level. If necessary, add only enough water to cover the plates. Do not overfill prior to charge cycle.

Connect battery charger into a grounded AC circuit.

Set 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".

The charger will automatically shut off at the end of set period.

Note: If ampere meter drops to 3A or less within the first 15 minutes, the battery is fully charged.

Check battery acid level when charge cycle is complete. Replenish with water to the bottom of the fill tube.

Dry Battery Filling And Charging Instructions

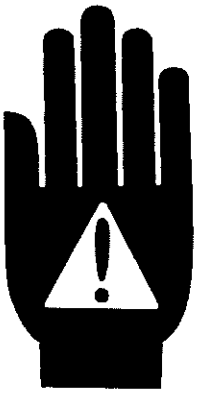
Remove battery vent caps and permanently remove plastic seal from battery vent openings.

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.

Re-install vent caps.

Charge battery for seven hours or until the charger ampere meter reads 3A or less.

Check battery acid level when charge cycle is complete. Replenish with water to the bottom of the fill tube.



Loading For Transport

- Transport vehicle must be parked on a level surface.
- Be sure to lock swivel casters on tilt-back frame (AWP-30 & 36, figure 1).
- DC models—remove battery pack to avoid acid spill.

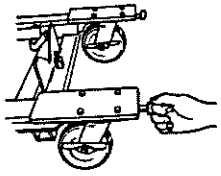


Figure 1

Be sure vehicle capacity and loading surfaces are sufficient to support machine weight (see *Specifications*, page 18).

Push in Emergency Stop buttons, turn key switch to "off" position and remove key.

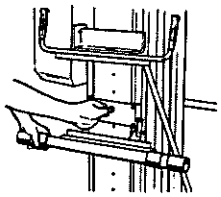


Figure 2

Remove outriggers from base and place in storage sockets.

DC models: Disconnect battery cables and remove battery pack.

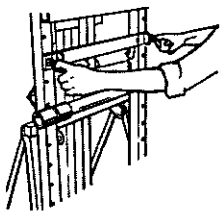


Figure 3

Slide the stop bracket to the top lock position (AWP-19 & 24, figure 2; AWP-30 & 36, figure 3).

Hook loading pivot to stop bracket.

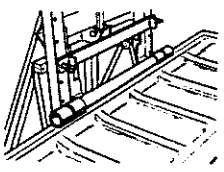


Figure 4

Position machine flush against loading surface. Lower and lock stop bracket to the lowest lock pin position above loading surface (figure 4).

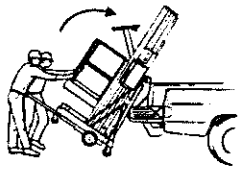


Figure 5

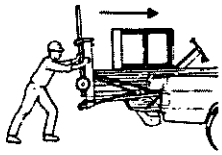


Figure 6

AWP-30 and AWP-36 models: Be sure both stop bracket lock pins are fully engaged. Be sure both tilt-back frame swivel casters are locked (figure 1).

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

Two people should lift T-handle to tilt machine onto loading surface (figure 5).

Carefully push machine into transport position (figure 6).

Return sliding T-handle to stowed position.

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

Reverse procedure to unload.

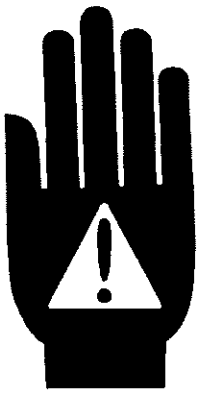
After Each Use

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

Remove key.

DC models: Disconnect battery pack and charge (see, *Battery Charger*, page 10).

OPERATING INSTRUCTIONS



Tilt-back Frame

The AWP-30 and AWP-36 have a tilt-back frame which allow the machine to roll through a standard doorway (figure 1).

- Do not allow tilt-back frame to drop.
- Retaining pin must be inserted to prevent spring loaded tilt-back frame from dropping.
- Keep feet clear of tilt-back frame fall path.

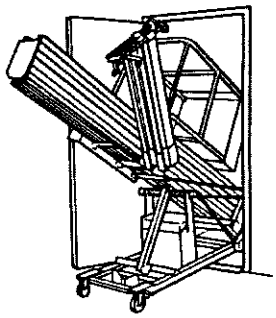


Figure 1

Lowering Tilt-back Frame

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

Remove outriggers from base and place in storage sockets.

Tilt-back frame is spring loaded and will immediately fall outward when retaining pin is removed. Therefore, maintain firm grasp on tilt-back frame and remove retaining pin (figure 2).

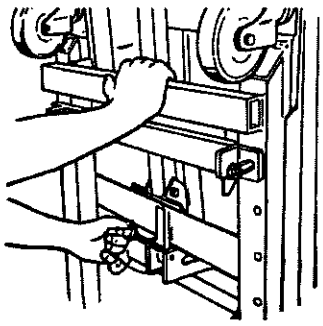


Figure 2

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

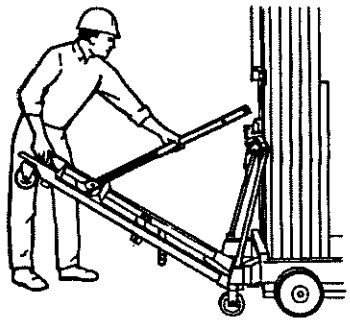


Figure 3

Insert retaining pin into strut socket (figure 4).

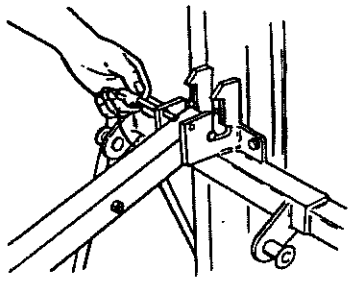


Figure 4

Tilting back Machine

Slide out T-handle until lock pin snaps into place (figure 5).

Two people should lift T-handle to mid-tilt position—casters on tilt-back frame contact floor, and machine supported by extended tilt-back strut (figure 6).

Continue lifting until telescoping tilt-back strut is completely compressed (figure 7).

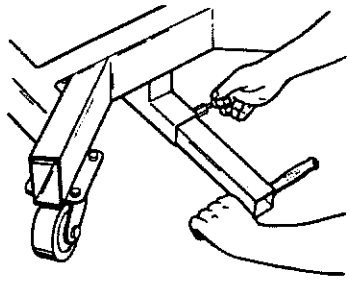


Figure 5

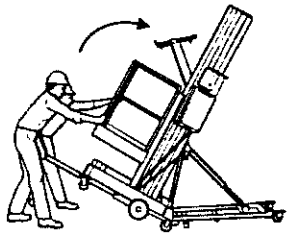


Figure 6

Returning Machine To Standing Position

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

Carefully pull down T-handle until machine rests at mid-tilt position (figure 8).

Two people should lower T-handle until base casters are in contact with ground (figure 9).

Return sliding T-handle to stowed position.

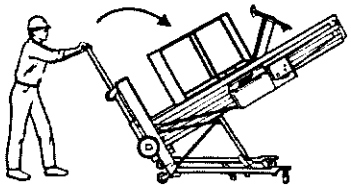


Figure 7

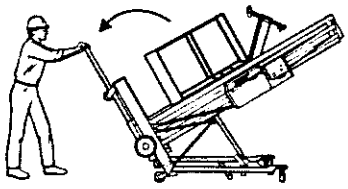


Figure 8

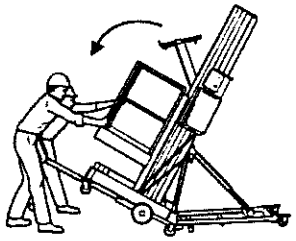


Figure 9

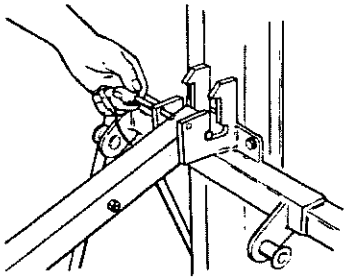


Figure 10

Stowing Tilt-back Frame

Remove retaining pin (figure10).

Firmly grasp tilt-back frame and remove tilt-back strut from strut socket (figure 11).

Lift tilt-back frame, hold in upright position against spring and secure with retaining pin (figure 12).

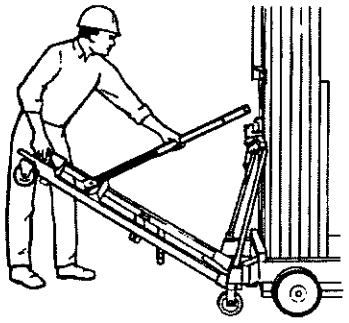


Figure 11

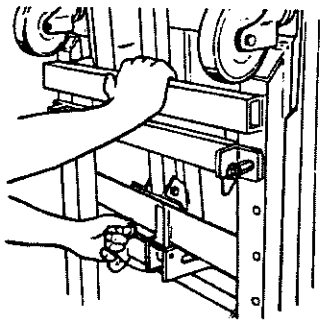
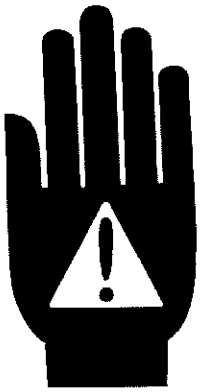
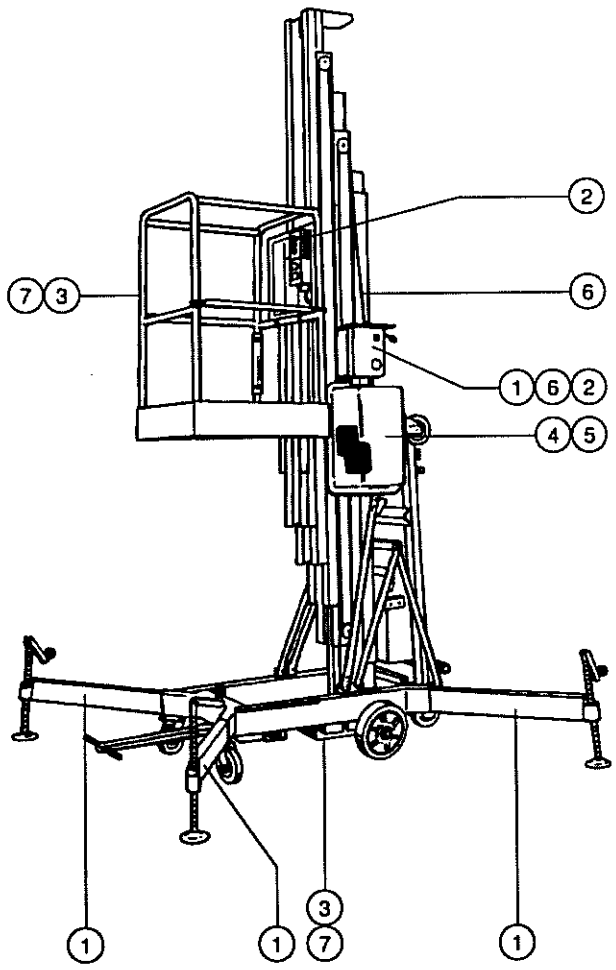


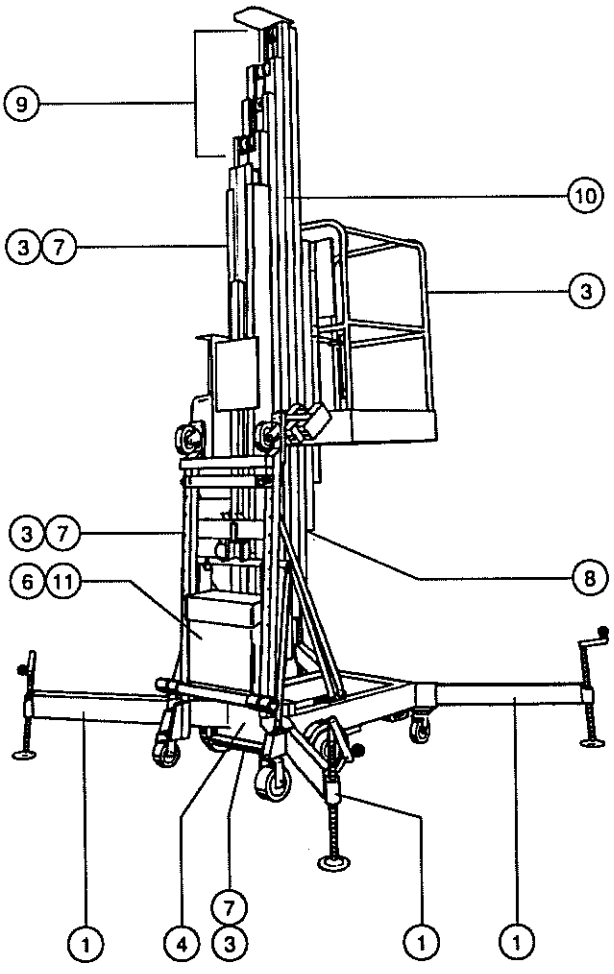
Figure 12

Maintenance Inspection



- Maintenance inspections must be conducted by a maintenance person trained on 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 all decals and placards for damage and legibility (see *Decals*, page 16).	☐ 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 damage.	☐ 11	Inspect and clean battery terminals and all battery cable connections.
☐	5 Check hydraulic oil level.		
☐	6 Check cables and wiring harness for frays, abrasions of physical damage.		

Inspected By: _____

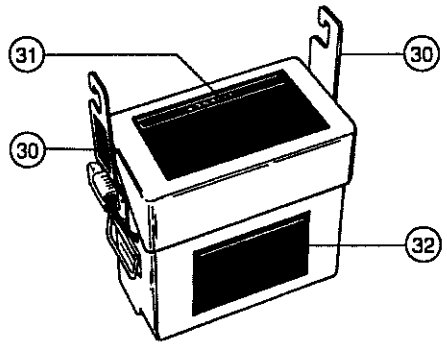
Date: _____

Decals

Index No.	Part No.	Quantity	Description
1	27849	1	Fuse location (DC models)
2	27855	1	Fuse location (AC models)
3	27850	1	Ground Controls
4*	27870	1	"Maximum Capacity 300 lb/136kg" - Top Rail (AWP-19, 24 & 30)
5*	27851	1	"Maximum Capacity 300 lb/136kg" - Toeboard (AWP-19, 24 & 30)
6	27845	1	"Emergency Lowering / Collision"
7	27858	1	"AC Extension"
8	25999	1	"Use Dexron II"
9	27857	1	"Component Damage" - Breather Cap
10	23725	1	"Failure To Read..."
11	27847	1	Loading Instructions
12	27865	1	"Bubble Level"
13	27866	3	"Transport Tie-down"
14	27863	3	"Load Shift Hazard"
15	27839	1	"Sliding T-handle"
16	27859	1	"Electrocution Hazard"
17	27852	1	Pre-operation
18	27854	1	General Safety & Operating Instructions
19	27867	2	"Swivel Lock"
20*	27860	1	"Maximum Capacity 250 lb/113kg" - Toeboard (AWP-36)
21*	27869	1	"Maximum Capacity 250 lb/113kg" - Top Rail (AWP-36)
22	27841	1	"Stop Bracket"
23	27842	1	"Loading Pivot"
24	27864	1	"Lower Stop Bracket"
25	27868	1	"Tip-over Hazard" - Relief Valve Setting
26	27844	1	"Strut Socket"
27	27840	1	"Retaining Pin"
28	27838	1	Tilt-back Operation
29	27843	1	"Tilt-back Strut"
30	27856	2	"Component Damage" - Battery Cable
31	27846	1	Battery Safety (DC models)
32	27853	1	Charger Instructions (DC models)
33	27872	1	"Tip-over Hazard" - Interlock
34	27873	1	"Grasp Firmly"
35	27874	1	"Replace Pin"

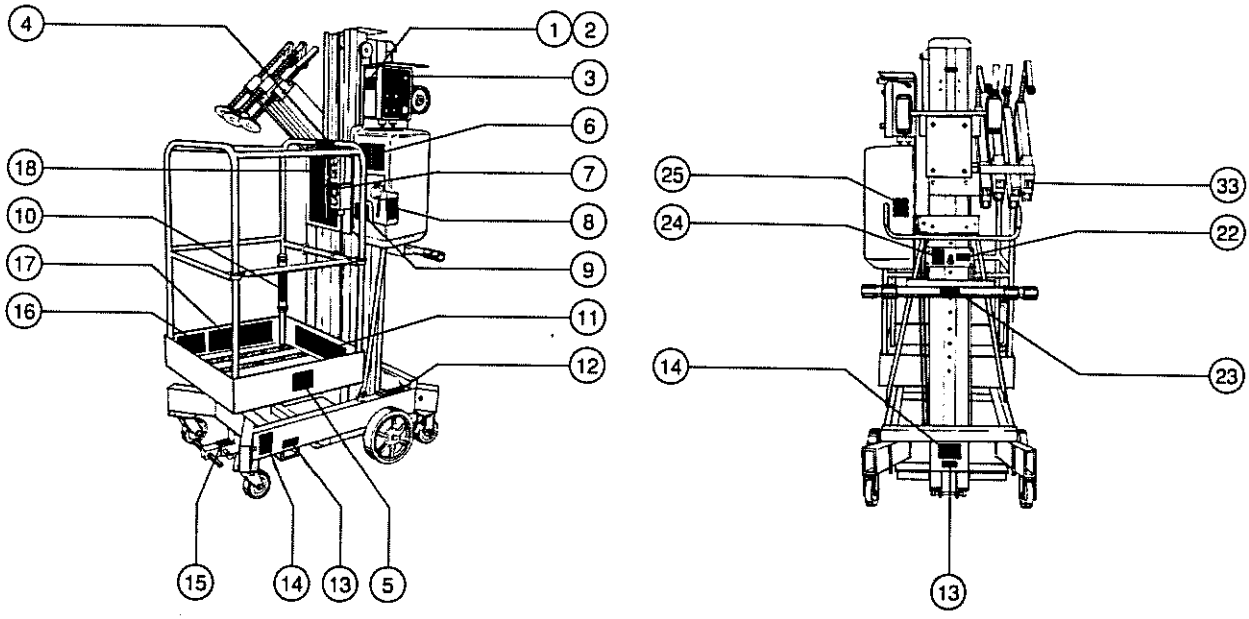
*Note: The 300 lbs/136kg capacity decals are for AWP-19, 24 & 30 only (index 4 and 5) and **not** to be used on AWP-36. See index 20 and 21 for AWP-36.

Battery Pack

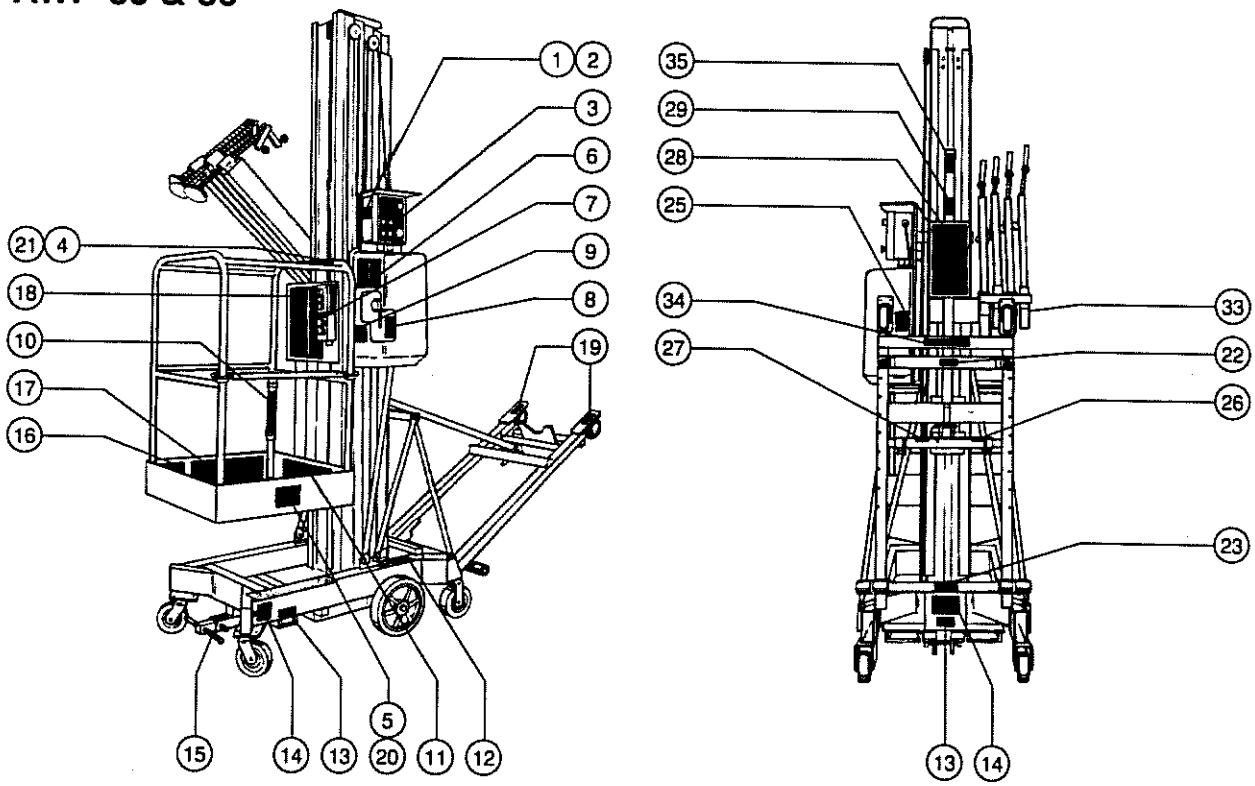


DECALS

AWP-19 & 24



AWP-30 & 36



Specifications

Model		AWP-19	AWP-24	AWP-30	AWP-36
Height-working max.	U.S. - ft	25' 6"	30	36	42
	Metric - m	7.8	9.1	11.0	12.8
Height-platform max.	U.S. - ft	19' 6"	24	30	36
	Metric - m	5.9	7.3	9.1	11.0
Height-stowed	U.S. - in	79	79	93	112
	Metric - cm	200	200	236	284
Height-tilted back	U.S. - in	NA	NA	79	79
	Metric - cm			200	200
Width-outriggers stowed	U.S. - in	29	29	29	29
	Metric - cm	74	74	74	74
Length-stowed	U.S. - in	47½	47½	51½	51½
	Metric - cm	120.6	120.6	130.8	130.8
Lift capacity	U.S. - lbs	300	300	300	250
	Metric - kg	136	136	136	113
Power source	DC	12V	12V	12V	12V
	AC	115V or 220V	115V or 220V	115V or 220V	115V or 220V
Platform dimensions	U.S. - in	26 x 26 x 43	26 x 26 x 43	26 x 26 x 43	26 x 26 x 43
(l x w x h)	Metric - cm	66 x 66 x 109	66 x 66 x 109	66 x 66 x 109	66 x 66 x 109
Outrigger footprint	U.S. - in	65 x 58	65 x 58	75 x 73	81 x 81
(l x w)	Metric - cm	164 x 146.5	164 x 146.5	190.5 x 185.5	205 x 205
Shipping weight	U.S. - lbs	694/623	717/639	866/788	940/868
(DC/AC)	Metric - kg	315/283	325/290	393/357	426/394

Product specifications are subject to change without notice.

Genie U.S.A.
18340 NE 76th Street
P.O. Box 69
Redmond, Washington
98073-0069

Genie Canada
P.O. Box 86754
North Vancouver, B.C.
V7L4L3

Genie Europe
Market Place
Southwell,
Nottinghamshire
NG25 OHE England