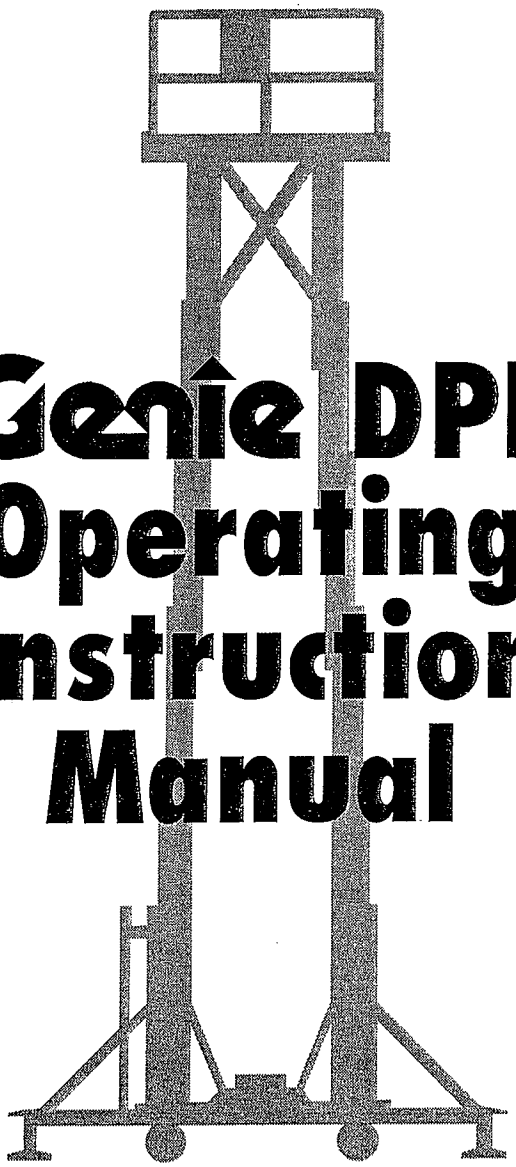
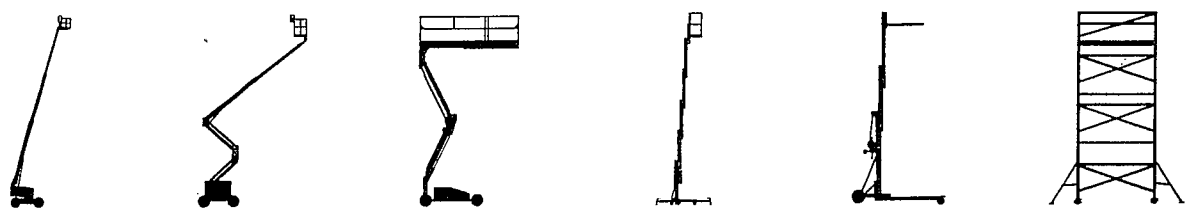
Genie Industries



Genie DPL Operating Instruction Manual



Second Edition

Part No. 28409

Genie DPL

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
Legend	5
Pre-operation Inspection & Function Tests	7
Operating Instructions	10
Decals	13
Maintenance Inspection	16
Specification Chart	18

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

Copyright © 1991 by Genie Industries
Second Edition, February 1992
Printed in U.S.A.

Safety Rules

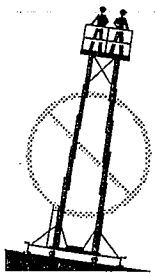


Danger

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) and battery is properly filled with acid and charged (see *Dry Battery Filling Instructions*, page 12).

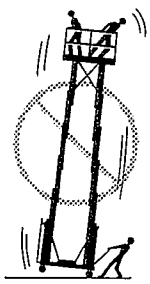


Tip-over Hazards

Do not exceed rated platform load capacity of 750 lbs (340kg).

Do not exceed maximum occupants: 2 persons.

Do not operate machine unless it is on a firm, level surface.

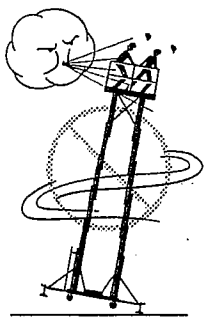


Do not operate machine unless all four outriggers are properly set up, leveling jacks are in firm contact with ground and base is level.

Do not adjust or fold outriggers up while platform is occupied or elevated.

Do not move the machine while platform is elevated.

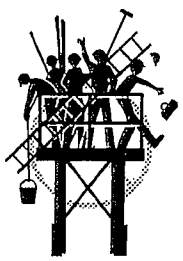
Do not operate machine on trucks, trailers, railway cars, floating vessels or similar equipment.



Do not operate machine in strong or gusty winds.

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

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



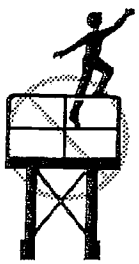
Do not place ladders or scaffolding in platform or against any part of this machine.

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

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

Do not replace any machine components with items of different specification or weight. Use only Genie authorized service parts.

Do not transport, or move the machine manually or by forklift, unless the platform is fully lowered, guard rails are down, machine is turned off and no person remains on the machine.



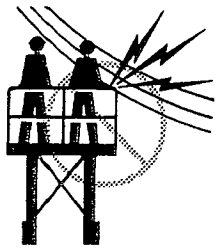
Fall Hazards

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

Do not enter or raise platform unless guard rails are locked upright and guard rail end gates are closed and latched.

Do not climb down from platform when elevated. If a power failure should occur, have ground personnel operate emergency lowering lever.

Keep platform floor clear of debris.



Electrocution Hazards

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

Be aware of machine working height (see *Specifications*, page 18) 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 or becomes electrically charged. Personnel on ground or in platform should not touch or operate machine until electrical charge is shut off.

Do not use machine as an electrical ground for welding.

Collision Hazards

Check work area for overhead obstructions or other possible hazards.

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.

Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift (see *Pre-operation Inspection & Function Tests*, page 7).

Be sure all maintenance has been performed as specified in the Operating Instruction Manual (see *Maintenance Inspection*, page 16) and Service Manual.

Be sure all decals are in place and clearly legible (see *Decals*, page 13).

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

Component Damage Hazards

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

Do not use machine as an electrical ground for welding.

DC models: Do not operate machine with a weak or overly discharged battery.













Battery and Charger Safety - DC Models

Burn Hazards

Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.

Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Do not expose battery and charger to water or rain.

Explosion Hazards

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

The battery cover must remain open during charging.

Electrocution Hazards

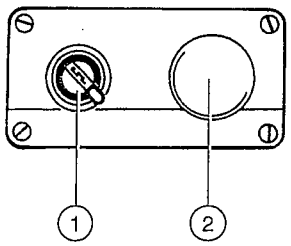
Connect charger to a grounded AC 3-wire electrical outlet only.

Inspect daily for damaged cords, cables and wires.

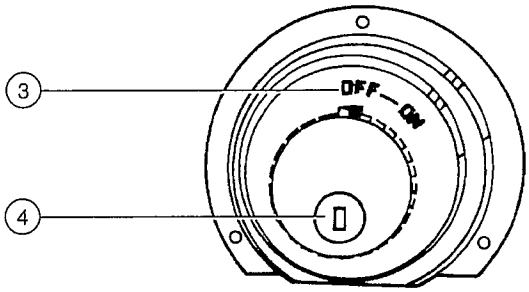
Replace damaged items before operating.

Legend

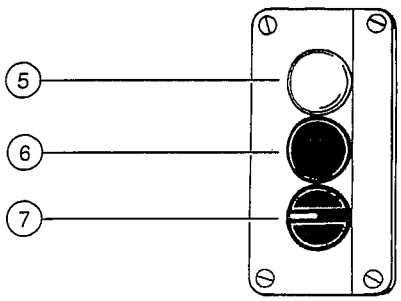
Ground Controls - AC Models



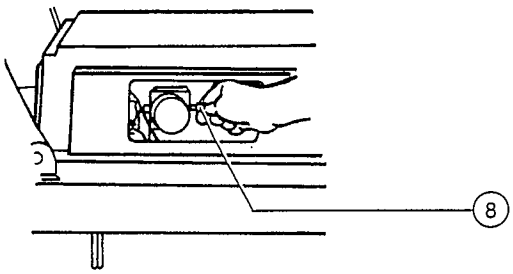
Ground Controls - DC Models



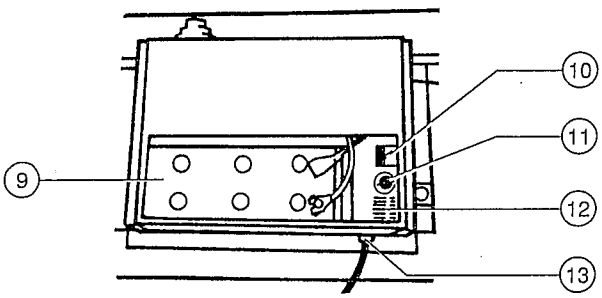
Platform Controls



Emergency Lowering Lever



Battery Box - DC Models



1 Key switch (AC models)

2 Emergency Stop button (AC models)

3 Power on/off switch (DC models)

4 Key lock for power on/off switch (DC models)

5 Emergency Stop button

6 Control activate button

7 Up/down switch

8 Emergency lowering lever

9 Battery (DC models)

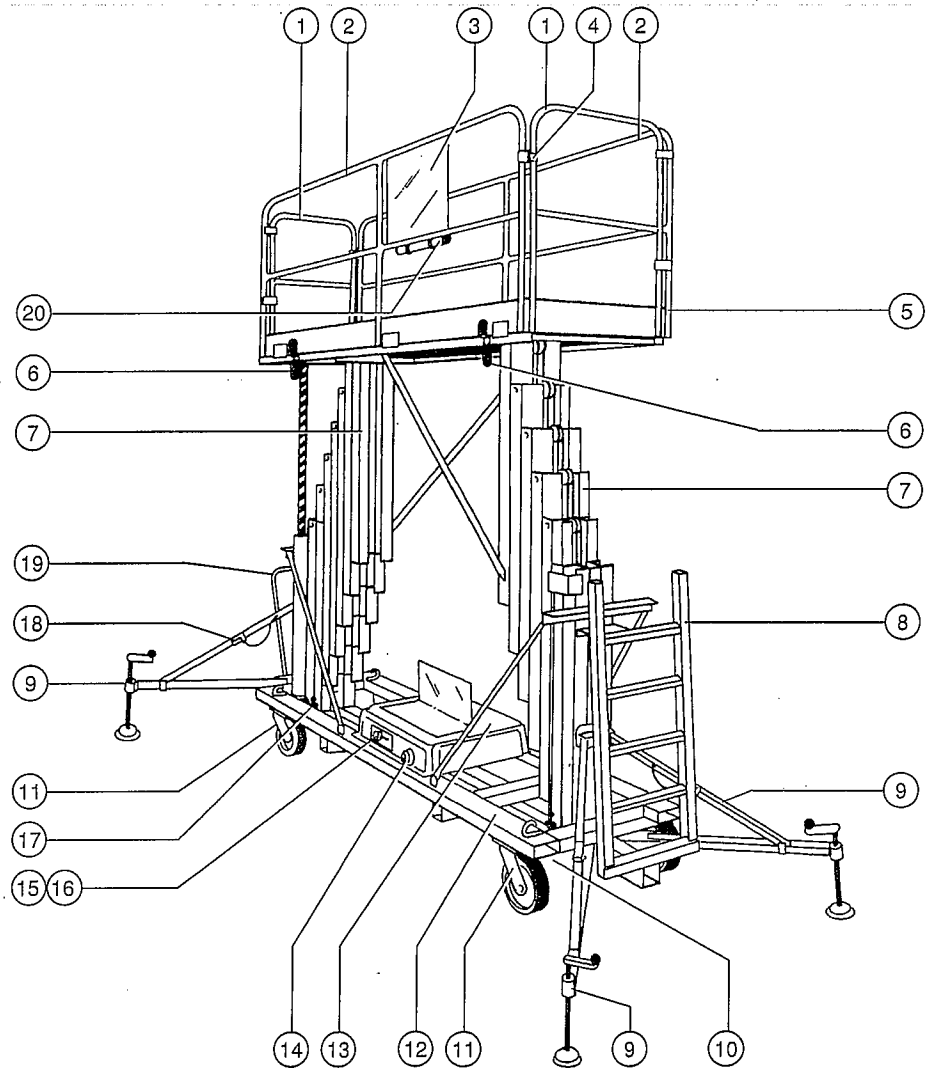
10 Battery charger ammeter (DC models)

11 Battery charger timer (DC models)

12 Battery charger (DC models)

13 Battery charger AC plug (DC models)

LEGEND



1 Platform end gate
2 Platform guard rail
3 Platform controls
4 Platform end gate latch
5 Platform
6 Guard rail lock handle
7 Mast
8 Platform entry ladder
9 Outrigger with screw jacks
10 Forklift pocket
11 Base caster with swivel lock
12 Machine base
13 Battery cover
14 Ground controls
15 Hydraulic power unit
16 Emergency lowering lever
17 AC extension to platform outlet
18 Stabilizer hinge retaining pin
19 Tow handle
20 Operating instruction storage tube

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

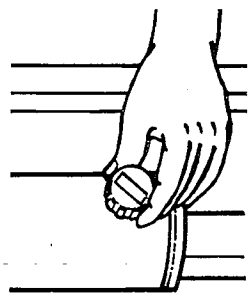


Figure 1

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, under battery cover, should be removed and permanently replaced with a breather cap (figure 1).

A breather cap is supplied and can be found in a package taped to the mast.

Pre-operation Inspection

Be sure all decals are legible and in place (see *Decals*, page 13).

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

Check for damaged & improperly installed or missing parts including:

- Electrical components, wiring and electrical cables
- Hydraulic hoses, fittings and cylinders
- Lifting chains and pulleys
- Sequencing cables and pulleys
- Nuts, bolts and other fasteners
- Guard rail end gates
- Weld or structural cracks

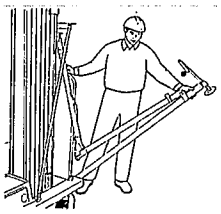


Figure 1

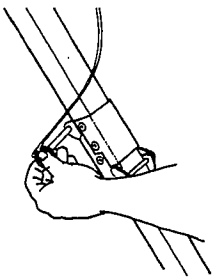


Figure 2

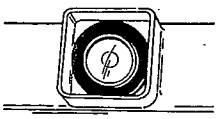


Figure 3

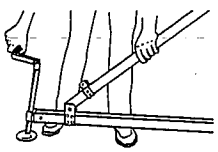


Figure 4

Function Tests

Select a firm level test area free of obstruction.

Remove retaining pin holding outrigger in storage position.

Swing outrigger down and straighten stabilizer arm (figures 1).

Insert retaining pin into the stabilizer hinge bracket (figure 2).

The retaining pin must be inserted through all four hinge bracket holes.

Repeat procedure for each outrigger.

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

Swing guard rails to upright position and lock in place using red lock handles. DPL-30 & 36 models, use guard rail lift arm provided (figures 5 & 6).

Close and latch guard rail end gates.

DC models: Insert key, unlock orange power switch at ground controls and turn to "on" position.

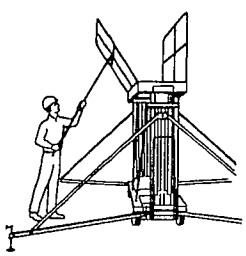


Figure 5

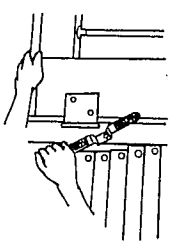


Figure 6

AC models:

- Connect to grounded outlet of proper voltage and amperage as indicated on serial number plate located on mast. Use a 12 gauge (3.3mm²) 3-wire extension cord no longer than 50 ft. (13m).
- Insert key at ground controls and turn to "on" position.
- Pull out red Emergency Stop button to "on" position.

Test Emergency Stop

DC models: Turn orange power switch at ground controls to "off" position.

AC models: Push in red Emergency Stop button at ground controls.

Twist to release the Emergency Stop button at platform controls.

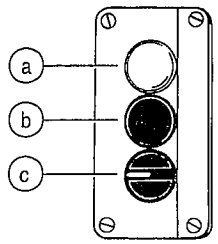
With control activate button pushed in, up/down functions should **not** operate.

Push in red Emergency Stop button at platform controls.

DC models: Turn orange power switch at ground to "on" position.

AC models: Pull out red Emergency Stop button at ground controls.

With control activate button pushed in, up/down functions should **not** operate.



a. Emergency Stop
b. Control Activate
c. Up/Down Switch

Figure 1

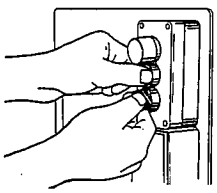


Figure 2

Test Platform Raise & Lower

Twist to release red Emergency Stop button at platform controls.

Push in control activate button and rotate the up/down switch to raise platform (figures 1 &2).

Platform should raise.

Push in control activate button and rotate the up/down switch to lower platform.

Platform should descend.

Test Control Activate

Do not push in control activate button and rotate the up/down switch in "up" direction.

Platform should **not** move.

Raise platform slightly.

Do not push in control activate button and rotate the up/down switch in "down" direction.

Platform should **not** move.

Test Emergency Lowering

Activated from ground only.

Raise platform slightly.

Pull red emergency lowering lever on hydraulic power unit (figure 3).

Platform should descend.

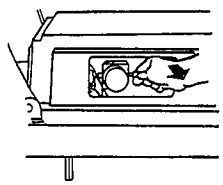


Figure 3

Operating Instructions



Before Each Use:

- Read, understand and obey all safety rules (see *Safety Rules*, page 1).
- Conduct a thorough pre-operation inspection and function test before each work shift (see *Pre-operation Inspection & Function Tests*, page 7).
- Repair any machine damage or malfunctions before operating machine.

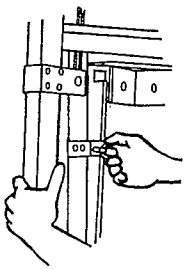


Figure 1

Setup

Position machine on firm level surface below desired work area.

Remove retaining pin holding outrigger in storage position (figure 1).

Swing outrigger down and straighten stabilizer arm (figures 2 & 3).

Insert retaining pin into the stabilizer hinge bracket (figure 4).

The retaining pin must be inserted through all four hinge bracket holes.

Repeat procedure for each outrigger.

Use the bubble levels and adjust outrigger screw jacks until machine base is level (figure 5).

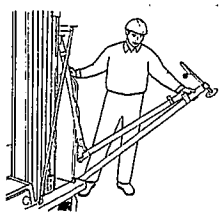


Figure 2

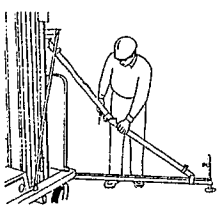


Figure 3

Swing guard rails to upright position and lock in place using red lock handles. DPL-30 & 36 models, use guard rail lift arm provided (figures 6 & 7).

DC models: Insert key, unlock orange power switch at ground controls and turn to "on" position.

AC models:

- Connect to grounded outlet of proper voltage and amperage as indicated on serial number plate located machine. Use a 12 gauge (3.3mm²) 3-wire extension cord no longer than 50 ft. (13m).
- Insert key at ground controls and turn to "on" position.
- Pull out red Emergency Stop button to "on" position.

Climb ladder to enter platform.

Close and latch guard rail end gates.

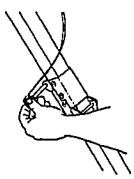


Figure 4

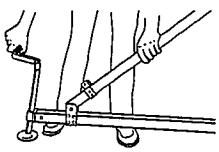


Figure 5

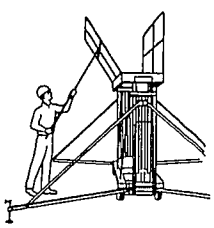


Figure 6

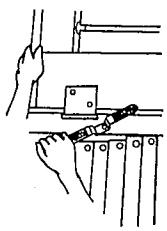


Figure 7

Emergency Stop

Platform controls:

Push in red Emergency Stop button.

Ground controls:

DC models—rotate orange power switch to "off" position to stop all functions.

AC models+push in red Emergency Stop button at ground controls.

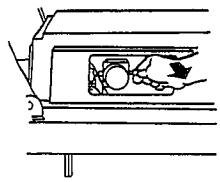
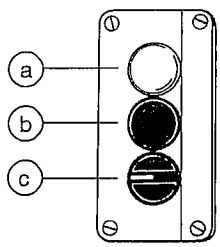


figure 1

Emergency Lowering

Activated from ground only.

Pull red emergency lower lever on hydraulic power unit (figure 1).



a. Emergency Stop
b. Control Activate
c. Up/Down Switch

Figure 2

Platform Raise & Lower

Push in control activate button and rotate the up/down switch in the direction of intended travel (see figures 2 & 3).

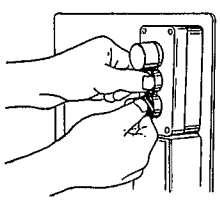


Figure 3

After Each Use

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

DC models—turn orange power switch to "off" position and lock with key.

AC models—turn key switch to "off" position.

Remove key to secure from unauthorized use.

DC Models—Recharge battery after each work shift.

Transport

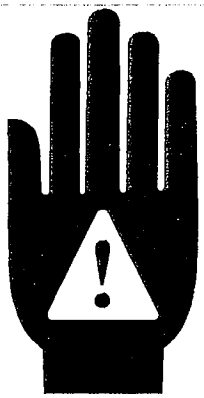
Be aware of weight and stowed height of DPL model being transported (see *Specifications*, page 18).

Always lock swivel casters and chock wheels in preparation for transport.

Use tie-down points on machine base for anchoring down to transport surface.

Turn key switch "off" and remove key before transporting.

Inspect entire machine for loose or unsecured items.



Battery Charger DC Models

Observe And Obey:

- Read, understand and obey all safety rules (see page 4).
- Do not operate the machine with a weak or overly discharged battery.
- Do not operate machine with battery charger plugged in.
- Do not use external charger or booster battery.
- Recharge battery after each work shift.
- Use proper voltage for charging as indicated on charger.

To Charge Battery:

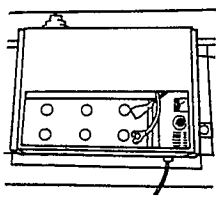


Figure 1

Slide open battery cover to access charger and battery. Cover must remain open for the entire charging cycle (figure 1).

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

Re-install battery vent caps.

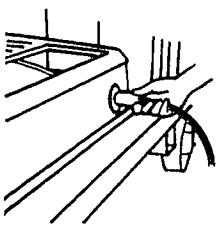


Figure 2

Connect the battery charger to a grounded outlet of proper voltage and amperage as indicated on battery charger (figure 2).

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 ammeter 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 battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

Re-install battery vent caps.

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

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

Decals

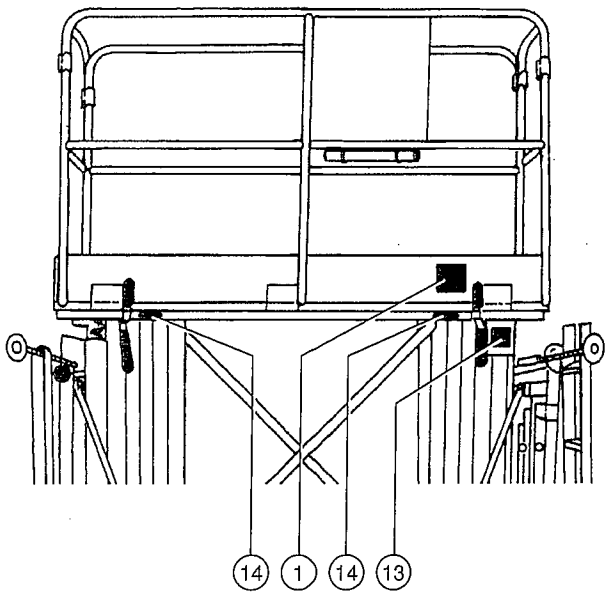
Index No.	Part No.	Quantity	Description
1	28400	5	"Danger - Falling Hazard, guard rails"
2	28406	5	"Danger - Tip-over Hazard, Do Not Operate"
3	28392	1	"Notice Max. Capacity-750", toe board
4	23725	1	"Danger - Failure to read manual"
5	28378	1	"Notice - 8A max. on outlet"
6	27858	2	"AC Extension"
7	28403	1	"Danger Safety rules", Platform
8	28396	1	"Notice - Operating Instructions"
9	28393	1	'Notice Max. Capacity-750", guard rails
10	12055	1	Serial Number Plate
11	28374	4	"Retaining Pin"
12	28394	4	"Insert Retaining Pin"
13	28405	6	"Warning - Bodily Injury Hazard, moving parts"
14	28401	4	"Lock Handle"
15	27867	4	"Swivel Lock"
16	27866	4	"Transport Tie-down"
17	28391	4	"Warning - Load Shift Hazard"
18	27865	2	"Bubble Level"
19	27857	2	"Caution - Component Damage, breather cap"
20	28157	1	"Notice - Use Dexron II"
21	27868	1	"Danger - Tip-over Hazard, relief valve"
22	27872	1	"Danger - Tip-over Hazard, install outriggers"
23	28404	1	"Warning-Collision Hazard, descending platform"
24	28395	1	"Emergency Lowering Lever"
25	28370	1	"Danger - Damaged Machine Hazards"
26	28402	1	"Danger - Safety rules", Ground
27	28399	1	"Notice - Pre-Operation"
28	28398	1	"Danger - Battery Safety"
29	28397	1	"Notice - Battery Charger Instructions"

Decal list corresponds to placement illustrations on the following two pages.

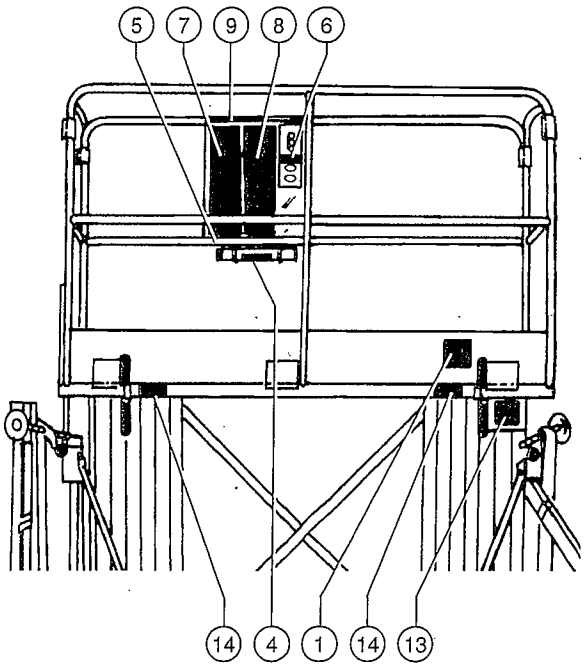
Decal position will vary with respect to model height and AC or DC powered.

DECALS

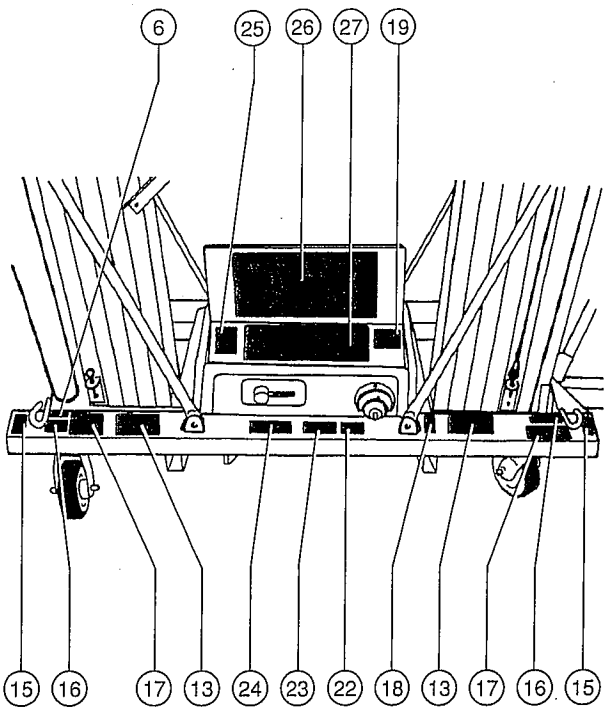
Platform, Left Side



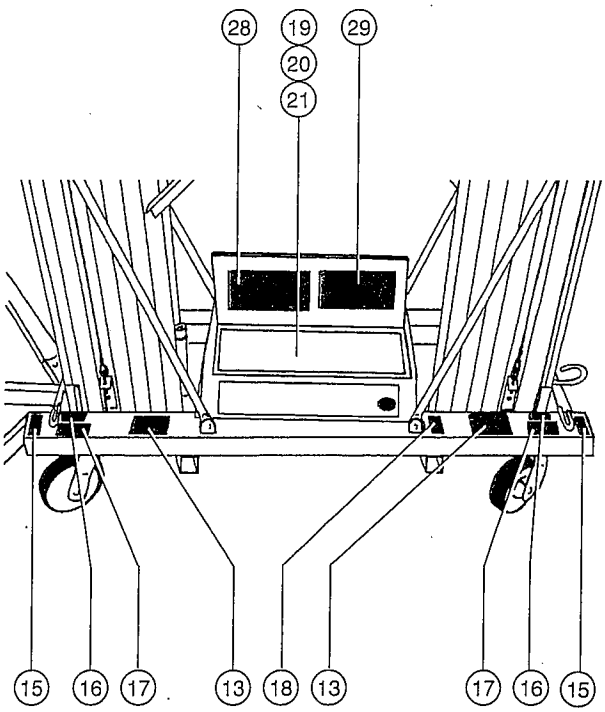
Platform, Right Side



Base, Left Side

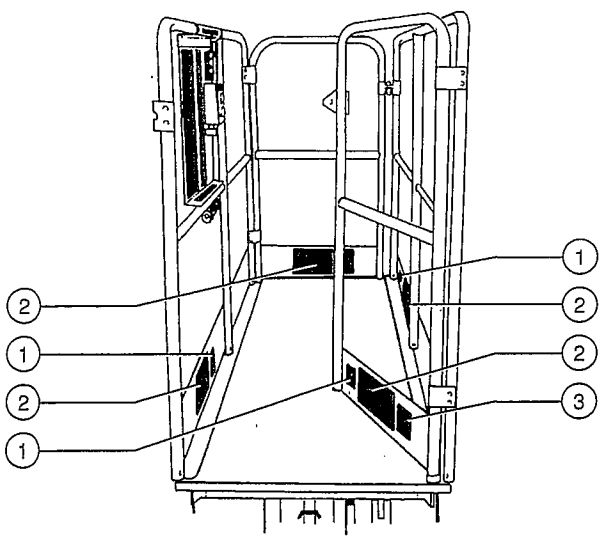


Base, Right Side

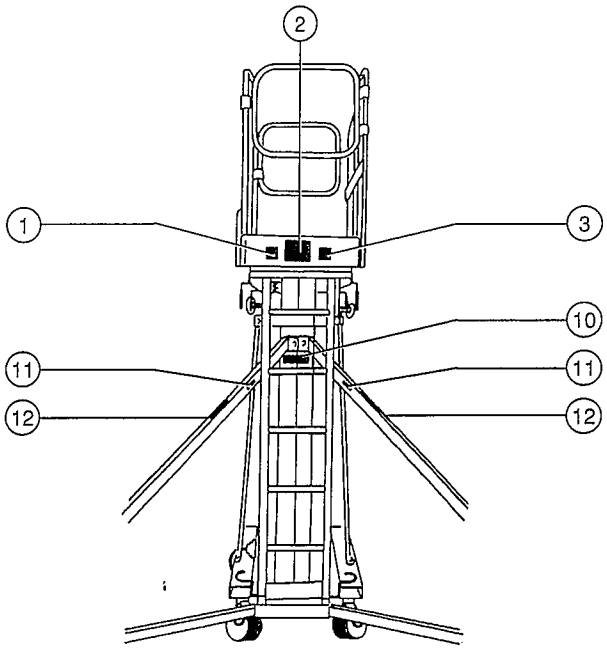


DECALS

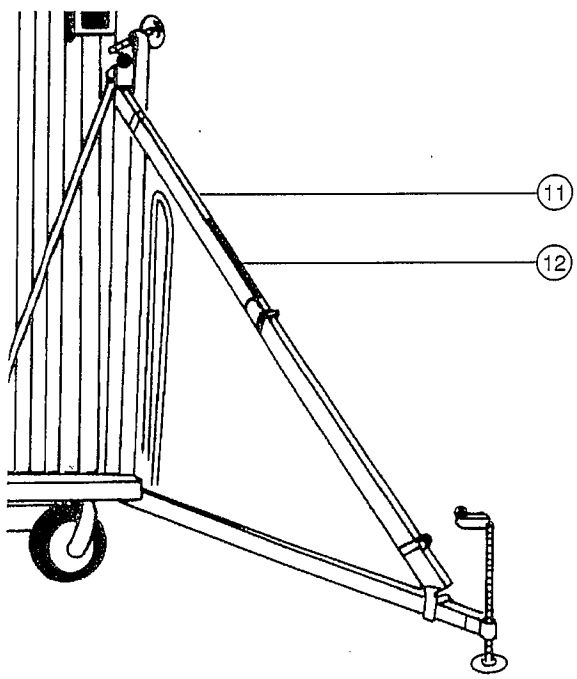
Platform



End



Outriggers



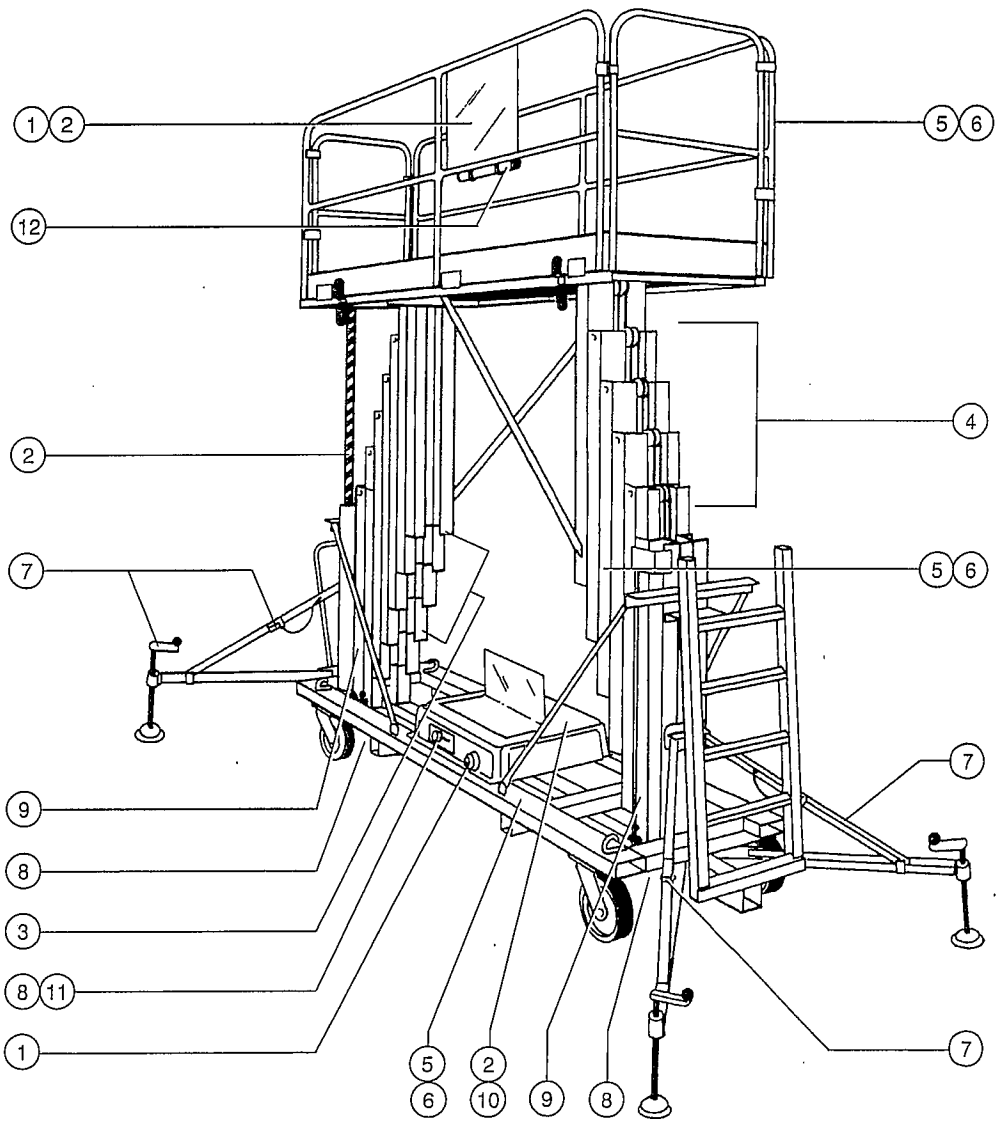
Decal positions will vary slightly with respect to model height and AC or DC powered.

Maintenance Inspection



Observe and Obey:

- 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 malfunction before operating machine.
- Specific details and procedures may be found in the Service Manual.



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 13).	☐ 6	Inspect entire machine for damaged, loose or missing parts.
☐ 1	Check operation of all power on/off and up/down controls.	☐ 7	Inspect and test outriggers, and screw jacks.
☐ 2	Check electrical cables and wiring harness for frays, abrasions or physical damage.	☐ 8	Inspect hydraulic components for leaks and damage.
☐ 3	Inspect lifting chains on each mast assembly for proper adjustment.	☐ 9	Inspect sequencing cables and pulleys for damage and proper operation.
☐ 4	Inspect lifting chains and idler wheels on each mast assembly for damage and proper operation.	☐ 10	Inspect and clean battery terminals and all battery cable connections.
		☐ 11	Check hydraulic oil level.
☐ 5	Check that all structural and other critical components are present and all fasteners and pins are in place and properly tightened.	☐ 12	Confirm that Operating Instruction Manual is located in platform tube.

Perform additional Frequent (every 3 months) and Annual machine inspections.
Keep records for three years.

Serial No.:

DPL: ☐18 ☐24 ☐30 ☐36

☐AC ☐DC

Inspected by:

Date:

Specifications

Model		DPL-18	DPL-24	DPL-30	DPL-36
Height,	U.S.- ft	24	30	36	42
maximum working	Metric - m	7.3	9.1	11	12.8
Height,	U.S.- ft	17' 9"	24	28' 5"	34' 9"
maximum platform	Metric - m	5.4	7.3	8.6	10.6
Height,	U.S.- in	62	74	79	92
guard rails stowed	Metric - cm	157	188	200	233
Length,	U.S.- in	88	88	89	108
outriggers stowed	Metric - cm	223	223	226	274
Width,	U.S.- in	33½	31	30	34
outriggers stowed	Metric - cm	85	79	75	86
Outrigger footprint	U.S.- in	110 x 76½	122½ x 76½	138½ x 124½	151½ x 124½
(l x w)	Metric - cm	279 x 194	311 x 194	352 x 316	385 x 316
Platform dimensions	U.S.- in	72 x 26	72 x 26	72 x 26	96 x 26
(l x w)	Metric - cm	183 x 66	183 x 66	183 x 66	244 x 66
Lift capacity	U.S.- lbs	750	750	750	750
	Metric - kg	340	340	340	340
Power source	DC	12V	12V	12V	12V
	AC	220V or 115V	220V or 115V	220V or 115V	220V or 115V
Shipping weight	U.S.- lbs	1077 / 947	1300 / 1170	1360 / 1230	1550 / 1420
(DC / AC)	Metric - kg	488 / 429	590 / 531	617 / 558	703 / 644

Continuous improvement of our products is a Genie policy.

Product specifications are subject to change without notice or obligation.

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