

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

Genie Industries

Genie® Personnel Lift

Operator's Manual

Replaces all previous
PLC, PL and PLM
operating instructions



All four outriggers must be properly installed prior to any use.

First Edition, Second Printing
Part No. 29787



Genie® Personnel Lift

Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, call Genie Industries.

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Models

This operator's manual covers all models of the Genie Personnel Lift as listed below.

PLC - Compact Personnel Lift	1980 to 1992
PL - Powered Personnel Lift	1978 to 1984
PLM - Manual Personnel Lift	1978 to 1991

Genie North America

Telephone (206) 881-1800
Toll Free 800 536-1800
Fax (206) 882-9260
E-mail: techpub@genieind.com

Genie Europe

Telephone (44) 01636-605030
Fax (44) 01636-611090

Genie Industries

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Safety Rules



Danger

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

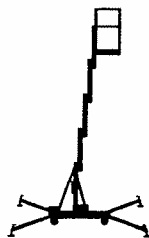
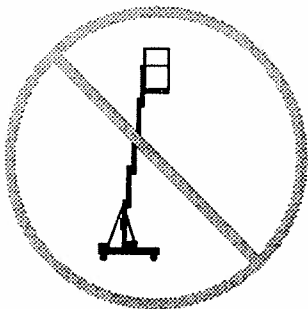
Do Not Operate Unless:

- ☒ **You** have properly installed all four correct length outriggers, the foot pads firmly contact the ground and the base is level.
- ☒ **You** are properly trained to safely operate a Genie Personnel Lift.
- ☒ **You** learn and practice the principles of safe machine operation contained in this operator's manual.
 - 1 Avoid hazardous situations.**
 - Know and understand the above principle before going on to the next section.**
 - 2 Always perform a pre-operation inspection.
 - 3 Always perform function tests prior to use.
 - 4 Inspect the workplace.
 - 5 Only use the machine as it was intended.
- ☒ **You** read, understand and obey:
 - Manufacturer's instructions and safety rules—*Genie Personnel Lift Operator's Manual* and machine decals
 - Employer's safety rules
 - Applicable governmental regulations
- ☒ The first time this machine is set up for use, a breather cap is installed on the hydraulic reservoir.
- ☒ Do not leave machine unattended unless it is secured from unauthorized use.

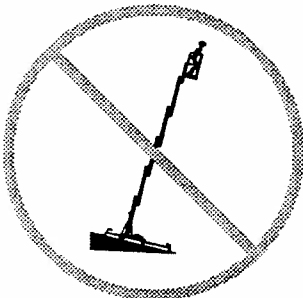
SAFETY RULES

Tip-over Hazards

Do not raise the platform unless all four correct length outriggers are properly installed, stabilizers are locked (30 & 36 models), foot pads firmly contact ground and the base is level.



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

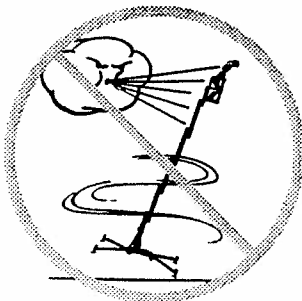


Do not move the machine while the platform is raised.



Do not adjust or remove the outriggers while the platform is occupied or raised.

Do not use the machine on a moving surface or vehicle.



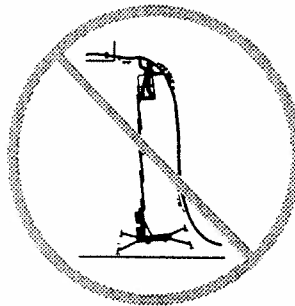
Do not raise the platform in strong or gusty winds.

Do not modify the machine in any way that affects stability.

Do not use the machine in the optional outrigger "T" pattern unless the platform is no more than 15 to 18 inches (38 to 46 cm) from a solid structural wall that is taller than the working height of the machine.

Machine is intended for personnel access only. Do not use to lift materials.

Do not place or attach wires, cables or other overhanging loads to any part of this machine.



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

Do not exceed the rated platform load capacity.

Maximum capacity: 1 person.



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

When moving a machine with a forklift or other transport vehicle, platform should be fully lowered, machine power source disconnected and no personnel shall remain in platform.

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

SAFETY RULES

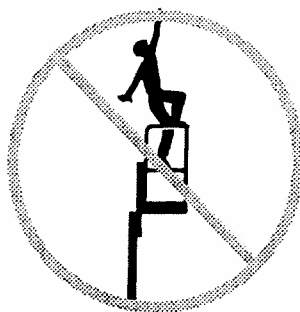
Fall Hazards

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

Do not climb down from the platform. If a power failure should occur (or winch failure on manual models), ground personnel should follow emergency lowering procedure.

Keep the platform floor clear of debris.

Lower the platform entry mid-rail or close chain gate before operating.

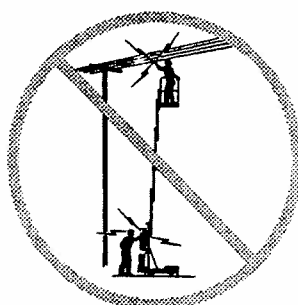


Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the operator's manual.

Voltage Phase to Phase	Minimum Safe Approach Distance	
	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

Electrocution Hazards

This machine, even with fiberglass platform, is not electrically insulated and will not provide protection from contact with or proximity to electrical current.



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

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

Do not use the machine as an electrical ground for welding.

Collision Hazards

Check work area for overhead obstructions or other possible hazards.

Powered DC models: Do not operate machine with a weak battery. Platform may continue to raise after up button is released. Immediately push the platform down button if this occurs.

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

Stay clear of descending platform when operating the emergency lowering lever or knob.

SAFETY RULES

Component Damage Hazards

Powered models: Do not operate the machine unless a breather cap has been installed in the hydraulic reservoir.

Do not use the machine as an electrical ground for welding.

DC models: Do not operate the machine with a weak battery.

DC models: Do not operate the machine when the battery charger plugged in.

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.

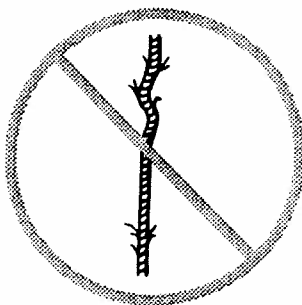
Be sure that all maintenance has been performed as specified in the manual.

Be sure that all decals are in place and legible.

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

Do not use a machine with a worn, frayed, kinked or damaged cable.

Manual models: Maintain proper lubrication on the winch. Do not allow oil or grease on the braking surfaces.



Decal Legend

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

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

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

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

▲ NOTICE Green—used to indicate operation or maintenance information.

SAFETY RULES

Battery and Charger Safety - Powered 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 and/or rain.

Explosion Hazards

Keep sparks, flames and lighted tobacco away from the 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.

Tilt-back Safety

Crushing Hazards

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



The lifting force necessary to tilt machine back requires proper lifting techniques.

All models except PL-36 and PLC-36: Do not tilt back the machine unless tilt-back leg is secured in socket with retaining snap pin.

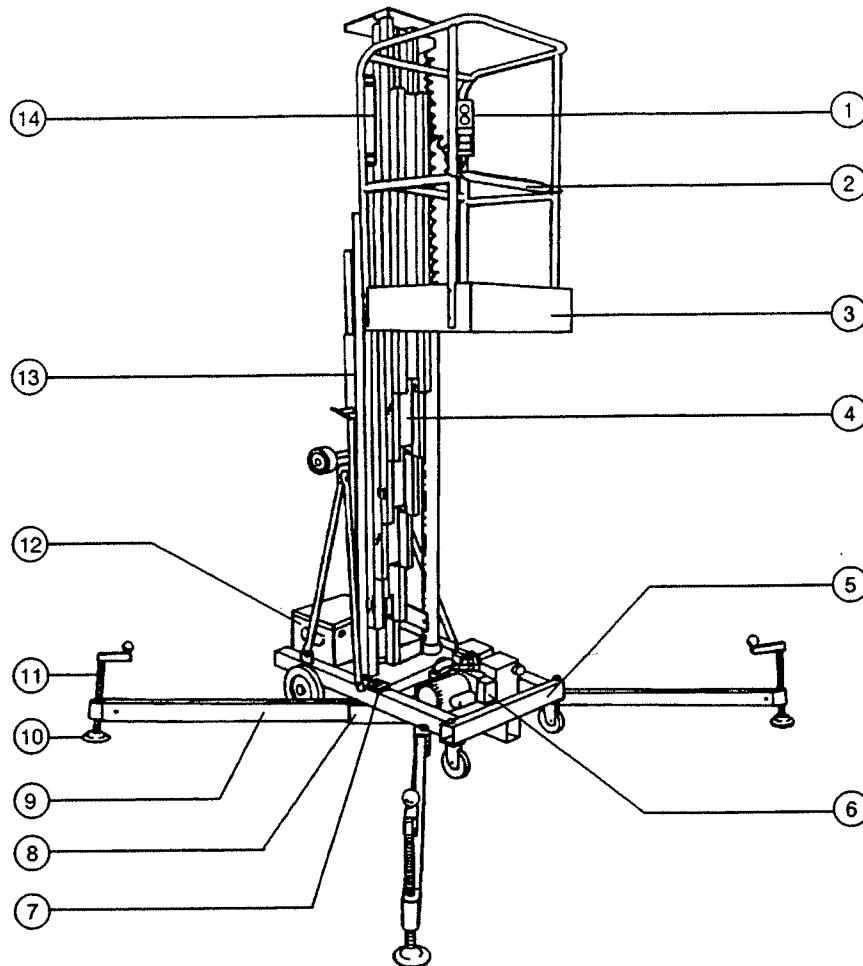
PL-36 and PLC-36 models: Support the tilt-back frame when raising or lowering to prevent it from dropping.

Do not push or pull on the tilt-back mechanism for any reason when the machine is tilted back.

Do not stand behind or under the machine while tilting back. No personnel should be under a tilted back machine at any time.

PLC-36 models: Do not tilt back the machine unless the telescoping tilt-back strut is properly set up and secured with retaining pin.

Legend

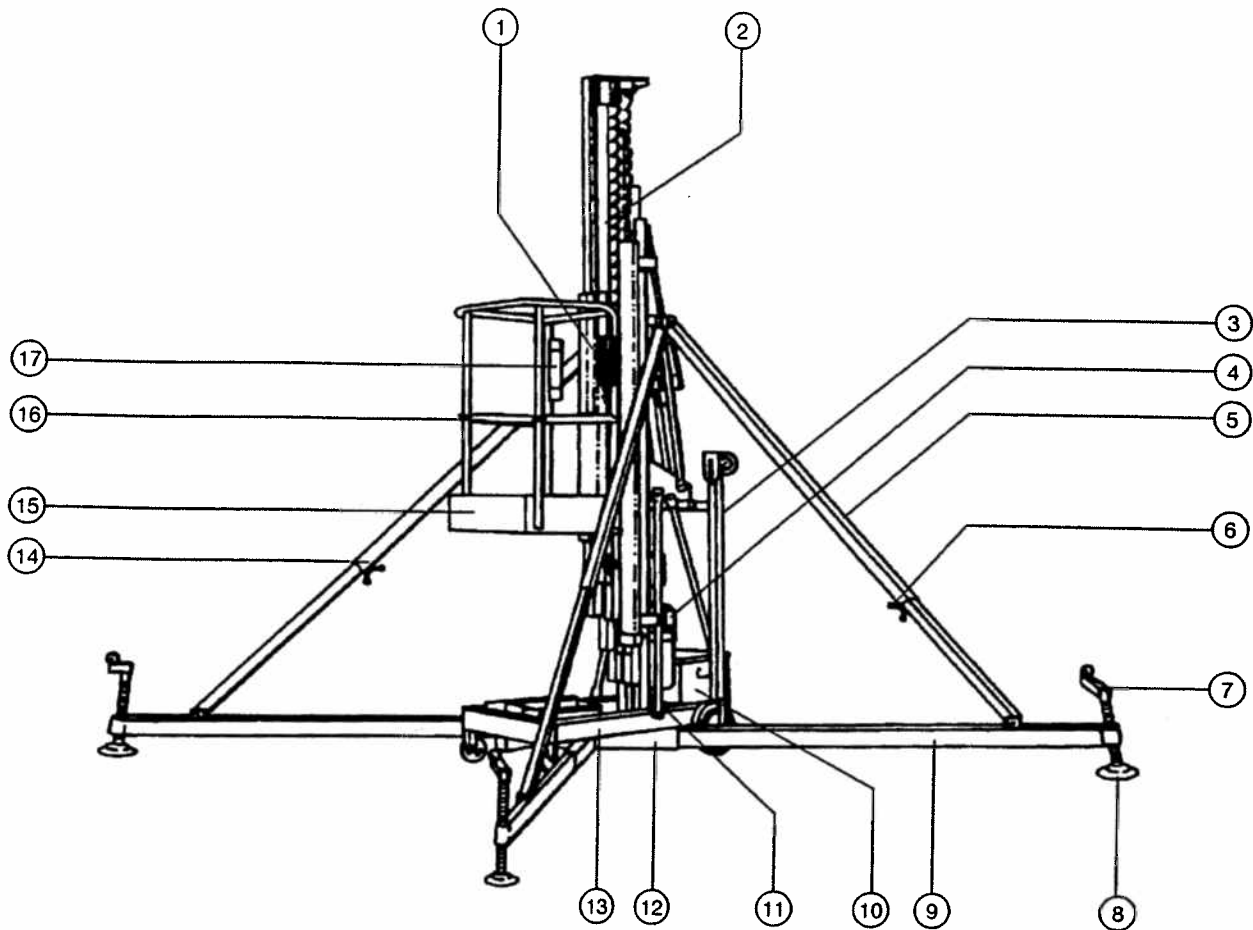


General Component Placement - PLC-15, 19, 24 and PL-12, 18, 24

Model shown is a PLC-24. Component placement may vary across models and years. Some components may not appear on all models. The power unit on PL models is located on the back of the mast.

- | | |
|------------------------------------|--|
| 1 Platform controls | 6 Hydraulic power unit with emergency lowering |
| 2 Platform entry mid-rail or chain | 7 Bubble level |
| 3 Platform | 8 Base outrigger socket with snap pin |
| 4 Mast | 9 Outrigger |
| 5 Base | 10 Outrigger foot pad |
| | 11 Outrigger leveling jack |
| | 12 Battery box (DC models only) |
| | 13 Hold down bar |
| | 14 Operator's manual storage container |

LEGEND

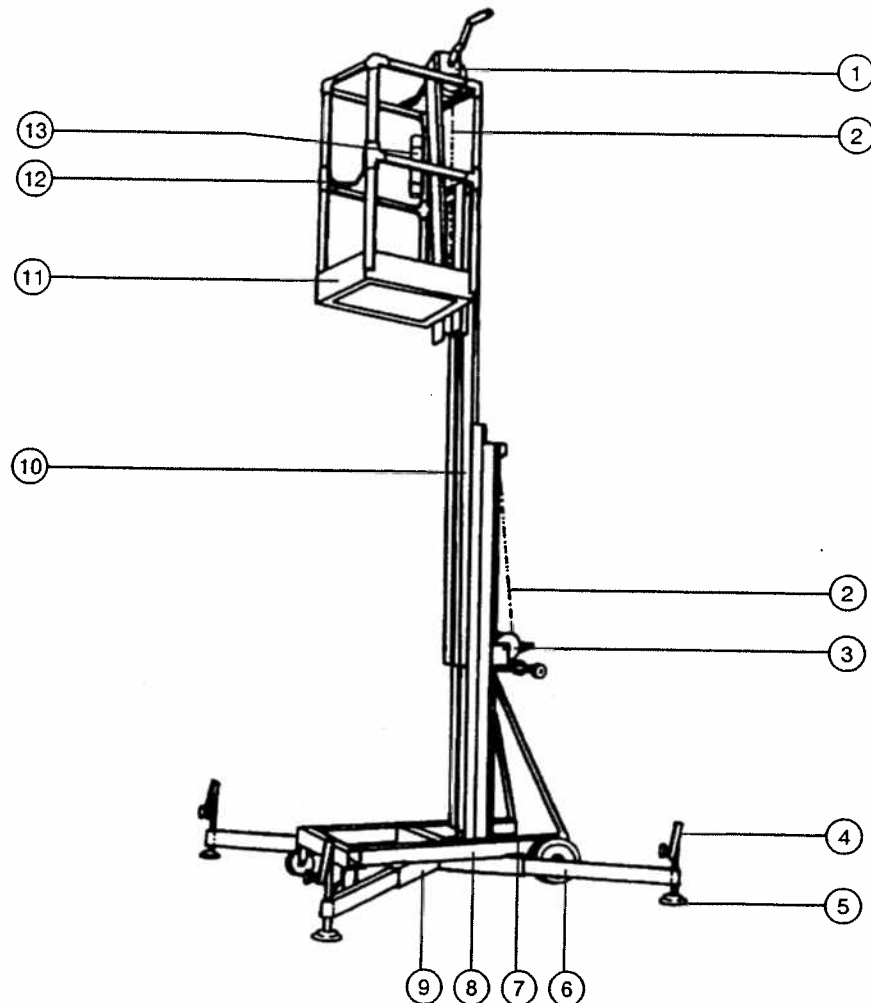


General Component Placement - PLC-30, 36 and PL-30, 36

Model shown is a PLC-36. Component placement may vary across models and years. Some components may not appear on all models. The power unit on the PLC-30 is located on the base.

- | | |
|--|--|
| 1 Platform controls | 8 Outrigger foot pad |
| 2 Mast | 9 Outrigger |
| 3 Tilt-back frame (36 models) | 10 Battery box (DC models only) |
| 4 Hydraulic power unit with emergency lowering | 11 Bubble level |
| 5 Rear outrigger stabilizer (30 & 36 models) | 12 Base outrigger socket with snap pin |
| 6 Stabilizer wing nut (30 & 36 models) | 13 Base |
| 7 Outrigger leveling jack | 14 Front outrigger stabilizer (30 & 36 models) |
| | 15 Platform |
| | 16 Platform entry mid-rail or chain |
| | 17 Operator's manual storage container |

LEGEND



General Component Placement - PLM models

Model shown is a PLM-18 and represents all PLM models. Component placement may vary across models and years. Some components may not appear on all models.

- | | |
|----------------------------|--|
| 1 Platform winch | 7 Bubble level |
| 2 Cable | 8 Base |
| 3 Emergency lowering winch | 9 Base outrigger socket with snap pin |
| 4 Outrigger leveling jack | 10 Mast |
| 5 Outrigger foot pad | 11 Platform |
| 6 Outrigger | 12 Platform entry mid-rail or chain |
| | 13 Operator's manual storage container |

Pre-operation Inspection



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
- 1 Avoid hazardous situations.
- 2 **Always perform a pre-operation inspection.**
Know and understand the above principle before going on to the next section.
- 3 Always perform function tests prior to use.
- 4 Inspect the work place.
- 5 Only use the machine as it was intended.

Fundamentals

The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. This inspection is designed to discover if anything is apparently wrong with a machine before the operator tests it.

Inspect the machine for modifications, damage or loose or missing parts.

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

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before testing functions.

Pre-operation Inspection

Be sure all decals and the operator's manual are legible and in place.

Be sure battery is fully charged (powered DC models only)

Check for damage and improperly installed or missing parts:

- Outriggers, leveling jacks and foot pads
- Platform entry mid-rail or chain
- Nuts, bolts and other fasteners
- Cracks in welds or structural components
- Hold down bar (or hook assembly)
- Mast roller wheels and fasteners
- Tilt-back assembly (if equipped)

Powered models:

- Electrical components, wiring and electrical cables
- Hydraulic hoses and fittings
- Lifting chains and pulleys
- Sequencing cables and pulleys
- Outrigger stabilizers (30 & 36 models)
- Hydraulic tank breather cap

Manual models:

- Platform and Emergency lowering winches
- Cable including cable anchors
- Safety brake mechanism
- Lower and upper cable pulleys including cable retainers

Be sure all maintenance has been performed as specified in the operator's and service manuals.

Function Tests



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 **Always perform function tests prior to use.**
Know and understand the above principle before going on to the next section.
- 4 Inspect the work place.
- 5 Only use the machine as it was intended.

Fundamentals

The Function Tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

Function Tests

Follow the Setup instructions beginning on page 12 to properly set up the machine before testing. Complete a full cycle test of the following functions. Refer to the operating instructions for each function on page 14.

- Platform raise and lower
- Emergency lowering from platform (powered models)
- Manual lowering from ground (powered models)
- Emergency lowering from ground (manual models)

Workplace Inspection



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 **Inspect the work place.**

Know and understand the above principle before going on to the next section.

- 5 Only use the machine as it was intended.

Fundamentals

The Work Place Inspection helps the operator determine if the work place is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the work place.

It is the operator's responsibility to read and remember the work place hazards, then watch for and avoid them while moving, setting up and operating the machine.

Workplace Inspection

Be aware of and avoid the following hazardous situations:

- Drop-offs or holes
- Bumps and floor obstructions
- Debris
- Overhead obstructions and high voltage conductors
- Hazardous locations
- Inadequate surface support to withstand all load forces imposed by the machine
- Wind and weather conditions
- All other possible unsafe conditions

Operating Instructions



Danger

Failure to obey all instructions and safety rules will result in death or serious injury.

Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's manual.
- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the work place.
- 5 **Only use the machine as it was intended.**

Fundamentals

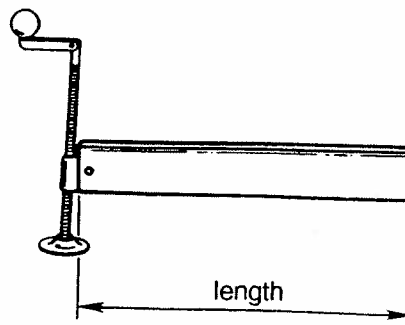
The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's and responsibilities manuals.

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

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

Setup

- 1 Position the machine on a firm level surface directly below the desired work area.
- 2 Be sure that all four outriggers are the proper length for your personnel lift. This can be determined by measuring the length of each outrigger.



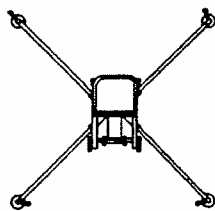
OPERATING INSTRUCTIONS

Outrigger Length Chart

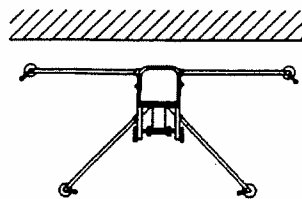
Platform Height	PL / PLM Outrigger Length	PL / PLM Narrow Base Outrigger Length
12 ft / 3.6 m	24 in / 61 cm	31 in / 79 cm
18 ft / 5.5 m	41 in / 104 cm	48 in / 122 cm
24 ft / 7.3 m	58 in / 147 cm	64 in / 163 cm
30 ft / 9.1 m	75 in / 191 cm	82 in / 208 cm
36 ft / 10.9 m	92 in / 234 cm	—

Platform Height	PLC Outrigger Length	PLC Narrow Base Outrigger Length
15 ft / 4.5 m	32.5 in / 82.5 cm	40.5 in / 103 cm
19 ft / 5.8 m	44 in / 112 cm	51 in / 130 cm
24 ft / 7.3 m	58 in / 147 cm	64 in / 163 cm
30 ft / 9.1 m	75 in / 191 cm	82 in / 208 cm
36 ft / 10.9 m	92 in / 234 cm	—

- 3 Install all four outriggers. Use the standard "X" pattern unless the work area is against a solid structural wall that is taller than the working height of the machine. In this instance, install the outriggers in the optional "T" pattern.



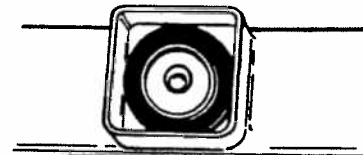
Standard "X" Pattern



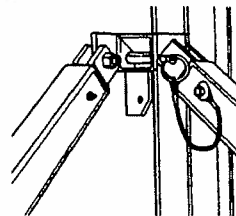
Optional "T" Pattern

- 4 If the "T" pattern is used, position the platform 15 to 18 inches (38 to 46 cm) from the wall. The platform may contact the wall if the base is placed closer than 15 inches (38 cm) to the wall. Do not raise the platform above the top of any wall.

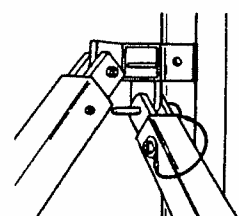
- 5 Adjust the leveling jacks until all foot pads are in firm contact with the ground and the machine is level. The machine is level when the bubble is centered in the circle on the bubble level.



- 6 All 30 & 36 models: Loosen the stabilizer extension wing nut. Attach a stabilizer to each outrigger with the retaining pin. Tighten the stabilizer extension wing nut. If the "T" pattern is used, move the front stabilizer upper attachment to the center tab before attaching the stabilizer to the outrigger.



Standard "X" Pattern



Optional "T" Pattern

- 7 Connect to the appropriate power source. AC models: Use a 12 gauge (3.3mm²), 3-conductor industrial grade extension cord—50 foot (12.7 m) maximum length—to reach a grounded 15A AC outlet.

OPERATING INSTRUCTIONS

**Platform Raise and Lower
- Powered Models**

- 1 Be sure platform entry mid-rail is fully lowered or chain is latched closed before raising the platform.
- 2 Push in the button next to the arrow that points in the desired direction of travel.

**Platform Raise and Lower
- Manual Models**

- 1 Be sure platform entry mid-rail is lowered or chain is latched closed before raising platform.

To raise the platform:

- 2 Rotate the platform winch handles clockwise. Be sure the cable winds evenly across the drum. Winch brakes are automatically set after raising the platform.

If the clicking noise stops while raising platform, maintain a firm grasp on the winch handles and fully lower the platform.

Do not raise the platform unless there is a minimum of three wraps around winch drum.

To lower the platform:

- 1 Rotate the platform winch counterclockwise. After lowering the platform slightly, the winch brakes must be reset. To do this, turn the winch handles clockwise until at least four clicks are heard.

**Emergency Lowering From
Platform - Powered Models**

If the machine fails to stop when the up button is released, press in the down button until the platform reaches ground level.

Continue to hold the down button until the power can be disconnected from the machine. Remove the machine from service until the repairs are made.

**Manual Lowering From Ground
- Powered Models**

DC Powered units: Pull red lever out and hold until platform is lowered. Stay clear of descending platform.

AC Powered units with green Fenner power units: Pull red lever out and hold until platform is lowered. Stay clear of descending platform.

AC Powered units with black Barnes power units: Push in red knob and turn counterclockwise and release to lower platform. Stay clear of descending platform.

**Emergency Lowering from
Ground - Manual Models**

The winch mounted on the mast at the ground is used for emergency lowering only.

Lower the platform by turning the emergency lowering winch counterclockwise (on early models, the drum lock pin must be removed to operate winch).

After using the emergency lowering winch, the cable must be rewound onto the emergency lowering winch drum. Lower the platform to fully lowered position. Rotate the platform winch counterclockwise and at the same time have a second person rotate the ground winch clockwise until there are five wraps of cable left on the platform winch.

After Each Use

- 1 Remove the outriggers from the base and store them in the platform. Do not separate the outriggers from the machine.
- 2 Select a safe storage location—firm level surface, weather protected, clear of obstruction and traffic.
- 3 Secure the machine from unauthorized use.
- 4 DC models: Disconnect battery pack and recharge battery.

OPERATING INSTRUCTIONS

Lifting Instructions

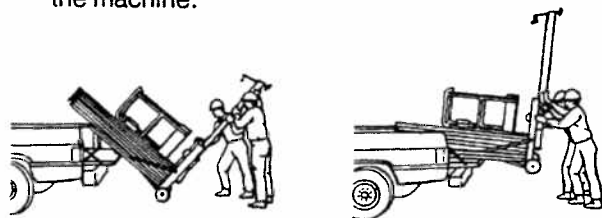
The number of people required to load and unload a machine is dependent on a number of factors, including but not limited to:

- the physical condition, strength and disabilities or prior injuries of the people involved
- the vertical and horizontal distances the machine has to be moved
- the number of times the machine will be loaded or unloaded
- the stance, posture and grip used by the people involved
- the lifting techniques used
- the site conditions and weather in which the activity is being performed (i.e., slippery, icy, raining)

The appropriate number of people and proper lifting techniques must be used to prevent physical injury.

Loading for Transport

- 1 Be sure that the vehicle capacity and loading surfaces are sufficient to support the machine weight.
- 2 Park the transport vehicle on a level surface.
- 3 Powered DC models: Remove the battery pack to avoid acid spill.
- 4 Remove the outriggers from the platform and place them in the transport vehicle.
- 5 Attach the hold down bar or hook to the carriage.
- 6 Inspect the entire machine for loose or unsecured items.
- 7 Position the machine flush against loading surface. Do not transport the machine in the tilt-back position
- 8 Slide one outrigger into the front base socket.
- 9 Use proper lifting techniques to lift this outrigger and tilt the machine onto the loading surface. This procedure requires two people to safely lift the machine.



- 10 Carefully push the machine into transport position.
- 11 Remove the outrigger from the front base socket.
- 12 Secure the machine base and mast to the transport vehicle. Use chains or straps of ample load capacity.
- 13 Be sure that all of the outriggers stay with the machine during transport.
- 14 Reverse this procedure to unload.

OPERATING INSTRUCTIONS

**Warning**

Failure to obey the instructions and safety rules may result in death or serious injury.

Lifting Instructions

The number of people required to load and unload a machine is dependent on a number of factors, including but not limited to:

- the physical condition, strength and disabilities or prior injuries of the people involved
- the vertical and horizontal distances the machine has to be moved
- the number of times the machine will be loaded or unloaded
- the stance, posture and grip used by the people involved
- the lifting techniques used
- the site conditions and weather in which the activity is being performed (i.e., slippery, icy, raining)

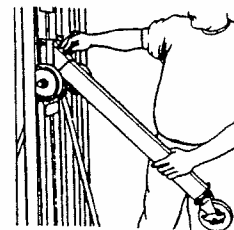
The appropriate number of people and proper lifting techniques must be used to prevent physical injury.

Tilt-back Operation Instructions - PL-12, 18, 24, 30 and PLC-30 Models

- ☒ Tilt-back leg snap pin must be inserted into tilt-back leg before tilting back machine.
- ☒ Do not tilt the machine back unless the area behind the machine is clear of personnel and obstructions.

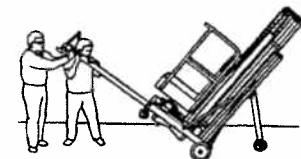
How To Tilt Back A PL-12, 18, 24, 30 and PLC-30

- 1 Remove tilt-back leg from base storage socket and install in mast mounted socket. Be sure snap pin locks tilt-back leg in the socket.



- 2 Insert an outrigger all the way into the front base socket.

- 3 Use proper lifting techniques to lift the outrigger until the tilt-back leg caster comes in contact with the ground.



- 4 Remove the outrigger from the front base socket.

Returning a machine to a standing position is the reverse procedure of tilting the machine back.

OPERATING INSTRUCTIONS

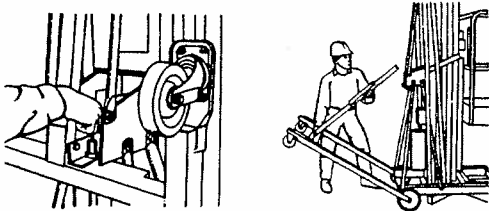
Tilt-back Operation Instructions - PLC-36

- ☑ The tilt-back frame retaining latch must be properly secured to prevent the tilt-back frame from dropping.
- ☑ Do not stand behind or under tilt-back frame when raising or lowering it.
- ☑ Do not tilt the machine back unless the area is clear of personnel and obstruction.

How To Lower The Tilt-back Assembly

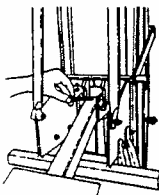
Be sure that the area behind the machine and under the tilt-back frame is clear of personnel and obstructions.

Firmly grasp and support the tilt-back frame. Then pull the lock pin.



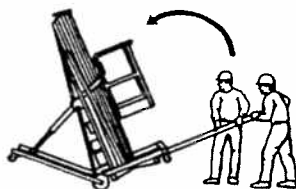
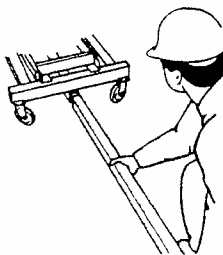
Carefully lower the tilt-back frame and guide the tilt-back strut into the strut socket.

Insert the retaining pin in the strut socket.



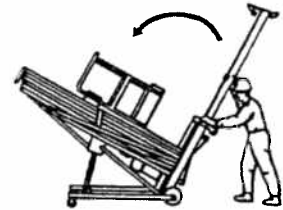
How To Tilt Back The Machine

Insert an outrigger into the front base socket.



Use proper lifting techniques to lift the outrigger to mid-tilt position with the casters on the tilt-back frame in contact with the floor.

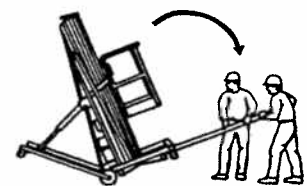
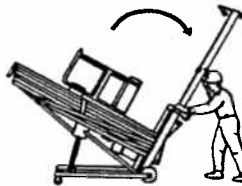
Continue lifting until the telescoping tilt-back strut is completely compressed.



How To Return The Machine To A Standing Position

Be sure that the area below the outrigger and machine base is clear of personnel and obstructions.

Carefully pull down the outrigger until the machine rests at the mid-tilt position.

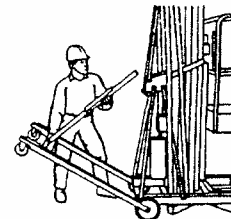
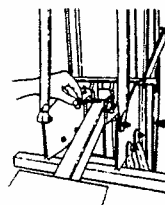


Use proper lifting techniques to lower the outrigger until the base casters are in contact with the ground.

Remove the outrigger from the front base socket.

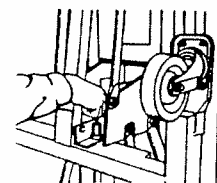
How To Stow The Tilt-back Assembly - PLC-36

Remove the retaining pin.



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

Raise the tilt-back frame and hold it against the mast. Then use the lock pin to secure it in place.



OPERATING INSTRUCTIONS



Warning

Failure to obey the instructions and safety rules may result in death or serious injury.

Tilt-back Operation Instructions - PL-36 Models

- ☒ The tilt-back frame retaining latch must be properly secured to prevent the tilt-back frame from dropping.
- ☒ Do not stand behind or under tilt-back frame when raising or lowering it.
- ☒ Do not tilt the machine back unless the area is clear of personnel and obstruction.
- ☒ Be aware of pinch points when raising or lowering the tilt-back frame and strut.

Lifting Instructions

The number of people required to load and unload a machine is dependent on a number of factors, including but not limited to:

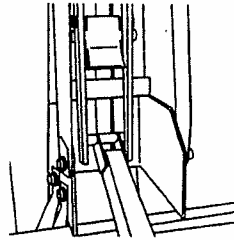
- the physical condition, strength and disabilities or prior injuries of the people involved
- the vertical and horizontal distances the machine has to be moved
- the number of times the machine will be loaded or unloaded
- the stance, posture and grip used by the people involved
- the lifting techniques used
- the site conditions and weather in which the activity is being performed (i.e., slippery, icy, raining)

The appropriate number of people and proper lifting techniques must be used to prevent physical injury.

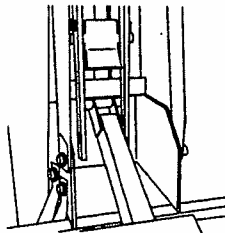
OPERATING INSTRUCTIONS

How To Lower A PL-36 Tilt-back Assembly

- 1 Be sure that the area behind the machine and under the tilt-back frame is clear of personnel and obstruction.
- 2 Firmly grasp and support the tilt-back frame. Then lift the retaining latch.
- 3 Carefully lower the tilt-back frame while guiding the telescoping tilt-back strut down the guide channel until the end is below the top of the strut mounting bracket.

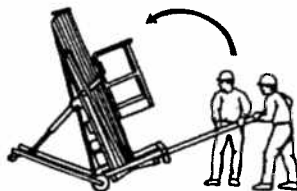
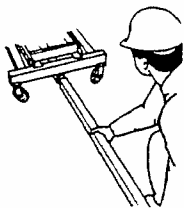


- 4 Push the tilt-back frame towards the machine and check that the end of the tilt-back strut moves towards the mast and locks under the top bar of the strut mounting bracket.



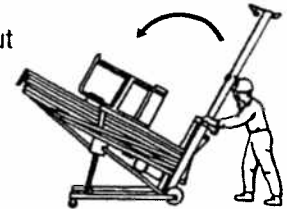
How To Tilt Back A PL-36

- 1 Be sure that the area behind the machine and under the tilt-back frame is clear of personnel and obstruction.
- 2 Insert an outrigger into the front base socket.



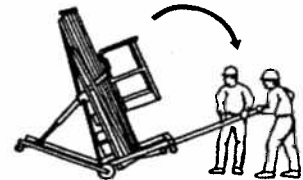
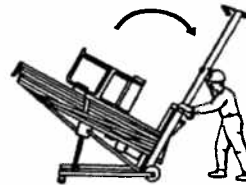
- 3 Use proper lifting techniques to lift the outrigger to mid-tilt position with the casters on the tilt-back frame in contact with the floor. Before continuing, check that the end of the telescoping tilt-back strut has locked under the top bar of the strut mounting bracket.

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

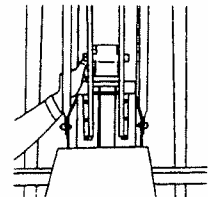


How To Return A PL-36 To The Standing Position

- 1 Insert an outrigger into the front base socket.
- 2 Use proper lifting techniques to lower the outrigger until the base casters are in contact with the ground.



- 3 Firmly grasp and support the tilt-back frame. Then push the safety latch and carefully lift the tilt-back frame while guiding the tilt-back strut up the guide channel.



- 4 Secure the tilt-back frame in the stowed position with the retaining latch.

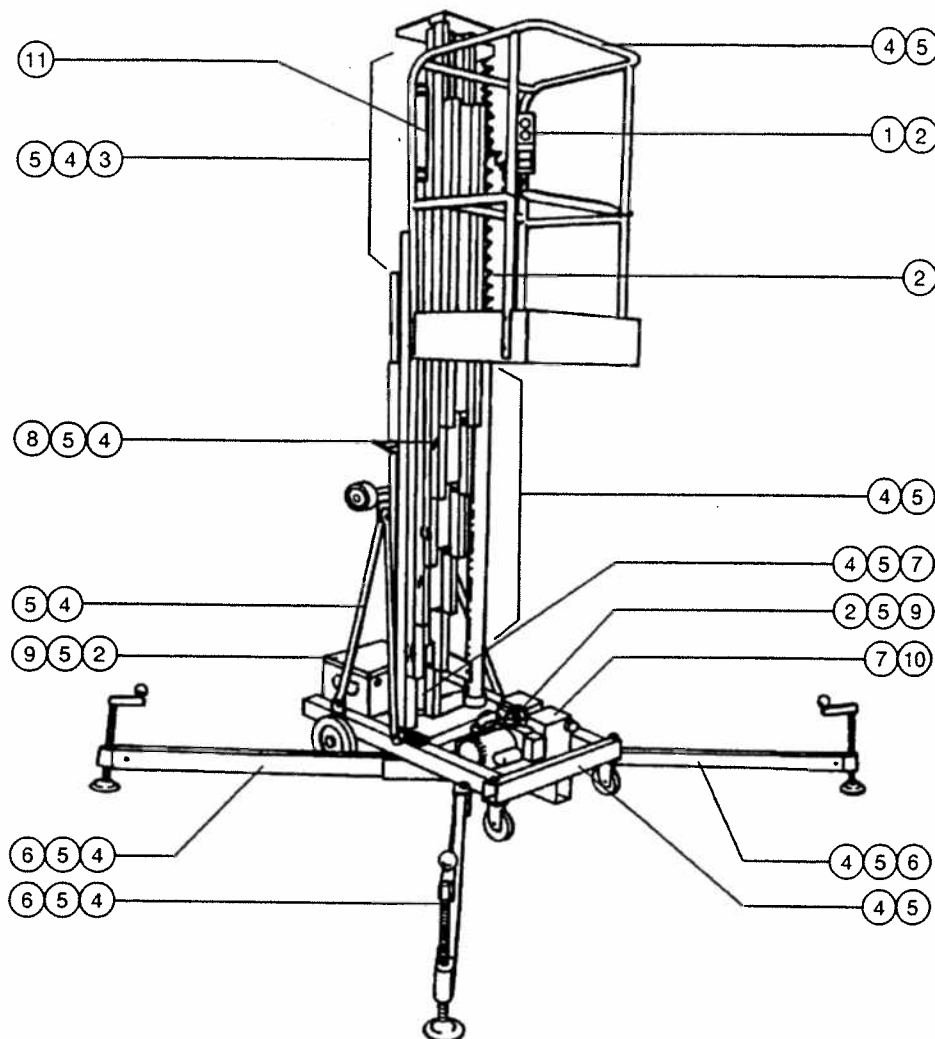
Maintenance Inspection - Powered Models



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.

Model shown is a PLC-24 and is representative of all PL and PLC models. Component locations may vary across models and years.



MAINTENANCE INSPECTION - POWERED MODELS

Daily Check List

Make copies of this checklist to use for each inspection.

- ☐ - Inspect all decals for damage and legibility.
- ☐ 1 Check operation of the platform up and down controls.
- ☐ 2 Check electrical cables and wiring harness for frays, abrasions or physical damage.
- ☐ 3 Inspect lifting chains and idler wheels on each mast assembly for damage and proper operation.
- ☐ 4 Check that all structural and other critical components are present and all fasteners and pins are in place and properly tightened.
- ☐ 5 Inspect entire machine for damage and loose or missing parts.
- ☐ 6 Inspect and test outriggers, leveling jacks and stabilizers (if equipped).
- ☐ 7 Inspect hydraulic components for leaks and damage.
- ☐ 8 Inspect sequencing cables and pulleys on both sides of each mast section for damage and proper operation.
- ☐ 9 DC Models: Inspect and clean battery terminals and all battery cable connections.
- ☐ 10 Check hydraulic oil level.
- ☐ 11 Confirm the operator's manual is located in platform tube.

 Serial No

 Model

PLC	<input type="checkbox"/> 15 ft	<input type="checkbox"/> 19 ft	<input type="checkbox"/> 24 ft	<input type="checkbox"/> 30 ft	<input type="checkbox"/> 36 ft
PL	<input type="checkbox"/> 12 ft	<input type="checkbox"/> 18 ft	<input type="checkbox"/> 24 ft	<input type="checkbox"/> 30 ft	<input type="checkbox"/> 36 ft

 Inspected by

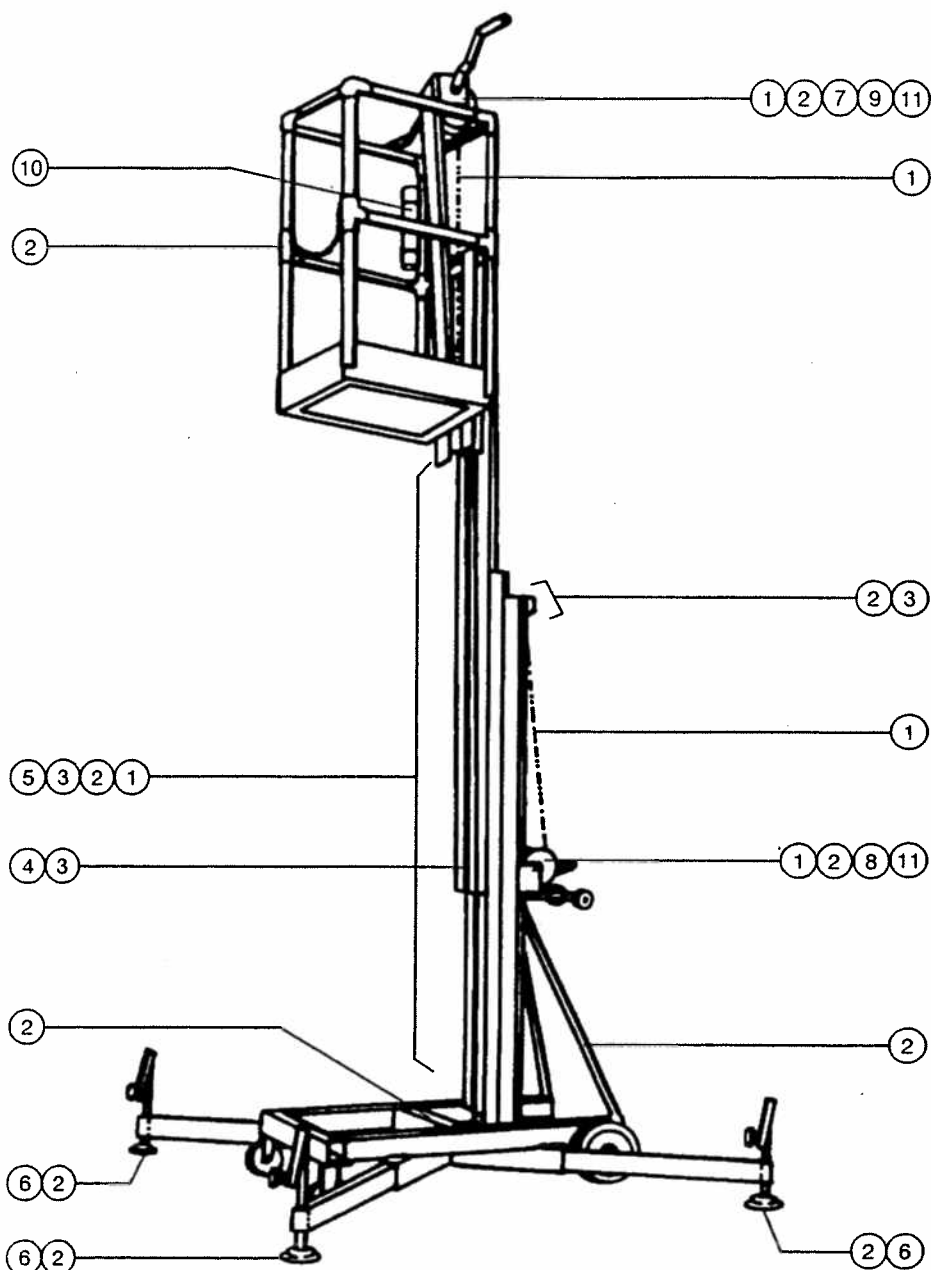
 Date

Maintenance Inspection - Manual Models



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.



MAINTENANCE INSPECTION - MANUAL MODELS

Daily Check List

Make copies of this checklist to use for each inspection.

- ☐ — Inspect all decals for damage and legibility.
- ☐ — Inspect entire machine for damage and loose or missing parts.
- ☐ 1 Check for worn, frayed, kinked or damaged cable.
- ☐ 2 Check that all structural components are present and all fasteners are in place and properly tightened.
- ☐ 3 Inspect cable pulleys and cable retainers for damage and proper operation.
- ☐ 4 Inspect safety brake mechanism of each mast and carriage for proper operation.

Procedure: Follow the Setup instructions beginning on page 12 to properly set up the machine. Use the emergency lowering winch to raise the platform without a load. When the bottom of each mast section is exposed, check and be sure that the safety brake catch rotates freely.

- ☐ 5 Inspect safety brake slotted channel on each mast section for damage.
- ☐ 6 Inspect and test outriggers and leveling jacks.
- ☐ 7 Check that platform winch has between three and five wraps of cable on winch drum with platform in fully lowered position.
- ☐ 8 Check that emergency lowering winch has proper amount of cable on the winch drum. Approximate number of wraps:

PLM-12	26 wraps
PLM-18	35 wraps
PLM-24	43 wraps

- ☐ 9 Check operation of platform winch raise and lower functions.
- ☐ 10 Confirm the operator's manual is located in the container in the platform.
- ☐ 11 Check winches for proper lubrication and inspect for unusual wear paying close attention to the drum bolt, pinion shaft, ratchet gear, pinion gear, drum gear and brake discs.

 Serial No

 Model ☐ 12 ft ☐ 18 ft ☐ 24 ft

 Inspected by

 Date

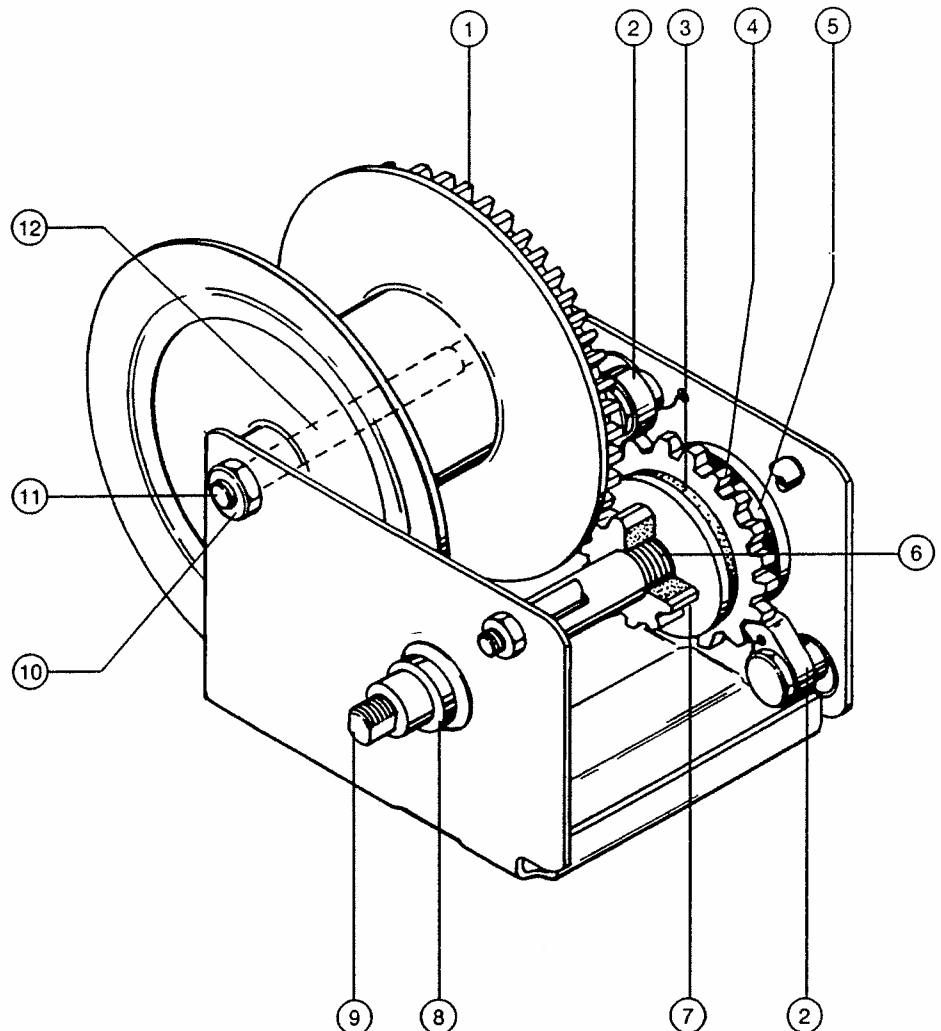
MAINTENANCE INSPECTION - MANUAL MODELS

**Danger**

Failure to properly inspect and lubricate winch will result in winch failure and cause death or serious injury.

Observe and Obey:

- ☒ Maintenance inspection shall be completed by a person trained and qualified on the maintenance of this machine.
- ☒ Repair any winch damage or malfunction before operating machine.
- ☒ Do not apply any lubrication to brake disk, ratchet gear or plastic washer. Winch brakes will fail and winch will not hold a load if any oil or grease comes in contact with brake disk, ratchet gear or plastic washer.



1 cable drum gear

2 ratchet pawl

3 brake disk

4 ratchet gear

5 plastic spacer

6 pinion shaft threads

7 pinion gear

8 pinion shaft bushing

9 pinion shaft

10 drum bolt nut

11 drum bolt

12 frame spacer

MAINTENANCE INSPECTION - MANUAL MODELS

Winch Maintenance Check List

Make copies of this checklist to use for each inspection.

- ☐ Carefully lubricate the following areas with multi-purpose grease:
 - the cable drum gear.
 - the teeth on pinion gear that mesh with cable drum gear.
 - the threads on pinion shaft, under pinion gear.
 - the outside of frame spacer going through cable drum. When installing cable drum and spacer after lubrication and inspection, insert drum bolt from gear side of winch and tighten to 20 ft-lbs (27 Nm). Do not overtighten. Be sure that drum bolt does not turn with the drum.
- ☐ Carefully lubricate with 30W oil each ratchet pawl pivot point.

Do not apply any lubrication to brake disk, ratchet gear or plastic washer. Winch brakes will fail and winch will not hold a load if any oil or grease comes in contact with brake disc, ratchet gear or plastic washer.

- ☐ Inspect brake disk for excessive wear. Replace if disk is less than $\frac{1}{16}$ inch (1.5 mm) thick.
- ☐ Inspect ratchet pawls for excessive wear. Check for proper engagement with ratchet gear.
- ☐ Inspect pinion shaft bushings for excessive wear. Replace if bushing wall thickness is less than $\frac{1}{8}$ inch (3.1 mm).
- ☐ Check that the pinion gear turns smoothly on pinion shaft threads.
- ☐ Inspect both winches for loose or missing parts.

 Serial No

 Model ☐ 12 ft ☐ 18 ft ☐ 24 ft

 Inspected by

 Date

Decals - Powered Models

PLC And PL Models

This list is representative of the decals that should be present and legible on the specified model(s).

Part numbers from decals applied to early models may vary. Component and decal placement may vary across models and years. Some components may not appear on all models.

Part No. Decal Description	Location Quantity
31456 Both sides of platform toeboard (outside). Genie Logo	2
33526 Front of platform on toeboard (outside). Danger - Tip-over Hazard (outriggers)	1
33528 Top surface of each outrigger. Danger - Tip-over Hazard (outriggers)	4
31072 On operator's manual storage container. Label - Operator's Manual Storage Container	1
33529 On platform decal plate (inside). Danger - General Safety Rules	1
PLC-36 Models Only	
7063 On platform mounting bracket. Adjustable Platform	1
PLC-36 Models Only	
8766 Inside platform, on toeboard against mast. Maximum Capacity, 250 lbs	1
PLC-36 Models Only	
29759 On tilt-back strut plate. Tilt-back Safety and Operation Instructions	1
PL-36 Models Only	
43051 On tilt-back strut plate. Tilt-back Safety and Operation Instructions	1
PL-36 Models Only	
43079 On tilt-back strut plate. Caution - Pinch Point	1
All Models Except PLC-36	
8765 Inside platform, on toeboard against mast. Maximum Capacity, 300 lbs	1
7322 Back of mast. Operating Instructions	1

8034 On the side of the platform control box. Emergency Stop	1
11857 Inside platform, on toeboard against mast. Platform Is Not Electrically Insulated	1
18597 On platform midrail near power receptacle. Caution - 8A Maximum Load On Platform Receptacle	1
19480 On power unit. Hydraulic Oil Only, Dexron II ATF or Equivalent	1
9216 On back mid-rail of platform near controls. All Outriggers Must Be Installed Before Operating	1
DC Powered Models Only	
11657 On battery box. Battery Operating Instructions	1
6730 On both sides of the mast. Genie Personnel Lift	2
7061 On hold down bar. Hold Down Bar	1
AC Powered Models Only	
6697 On motor contactor box near power unit. 100-115V 60 Hz	1
AC Powered Models Only	
30561 On motor contactor box. PLC Wiring, AC	1
8148 Above front base socket. Caution - Front Outrigger Sockets	1
8874 On or near power unit. Emergency Lowering - Pull Lever	1
OR	
12301 On or near power unit. Emergency Lowering - Push Knob And Twist	1

Decals - Manual Models

PLM Manual Models

This list is representative of the decals that should be present and legible on the specified model(s).

Part numbers from decals applied to early models may vary. Component and decal placement may vary across models and years. Some components may not appear on all models.

Part No. Decal Description	Location Quantity
31456 Both sides of platform toeboard (outside). Genie Logo	2
33526 Front of platform on toeboard (outside). Danger - Tip-over Hazard (outriggers)	1
33528 Top surface of each outrigger. Danger - Tip-over Hazard (outriggers)	4
31072 On operator's manual storage container. Label - Operator's Manual Storage Container	1
33529 On platform decal plate (inside). Danger - General Safety Rules	1
11857 Inside platform, on toeboard against mast. Platform Is Not Electrically Insulated	1
6726 On winch mount channel. Winch Operating Instructions	1
6727 On the back of the mast above the winch. Emergency Lowering	1
6730 On both sides of the mast. Genie Personnel Lift	2
6787 On the winch. Winch Lubrication Instructions	2
7061 On hold down bar. Hold Down Bar	1
7322 Back of mast. Operating Instructions	1

8148	Above front base socket.	
Caution - Front Outrigger Sockets		1

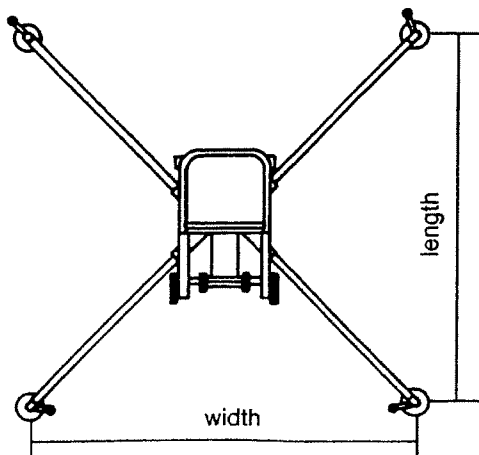
8765	Inside platform, on toeboard against mast.	
Maximum Capacity, 300 lbs		

9216	On winch mount channel.	
All Outriggers Must Be Installed Before Operating		1

PLC Specifications

Model		PLC-15	PLC-19	PLC-24	PLC-30	PLC-36
Height-working max.	U.S. - ft	21	25	30	36	42
	Metric - m	6.4	7.6	9.1	11.0	12.8
Height-platform max.	U.S. - ft	15	19	24	30	36
	Metric - m	4.6	5.8	7.3	9.1	11
Height-stowed	U.S. - in	78	78	78	91	109
	Metric - cm	198	198	198	231	277
Height-tilted back	U.S. - in				78	78
	Metric - cm				198	198
Width-outriggers stowed	U.S. - in	29	29	29	29	29
	Metric - cm	79	74	74	74	74
Length-stowed	U.S. - in	46	46	46	46	54
	Metric - cm	117	117	117	117	137
Lift capacity	U.S. - lbs	300	300	300	300	250
	Metric - kg	136	136	136	136	113
Power source	DC	12V	12V	12V	12V	12V
	AC	110V / 220V	110V / 220V	110V / 220V	110V / 220V	110V / 220V
Platform dimensions (l x w x h)	U.S. - in	24 x 24 x 42	24 x 24 x 42	24 x 24 x 42	24 x 24 x 42	24 x 24 x 42
	Metric - cm	61 x 61 x 107	61 x 61 x 107	61 x 61 x 107	61 x 61 x 107	61 x 61 x 107
Outrigger footprint* (l x w)	U.S. - in	52 x 60	68 x 76	88 x 96	111 x 119	199 x 147
	Metric - cm	132 x 152	173 x 193	224 x 244	282 x 302	505 x 373
Shipping weight (DC/AC)	U.S. - lbs	454 / 532	500 / 578	552 / 630	721 / 799	856 / 934
	Metric - kg	206 / 241	227 / 262	251 / 286	328 / 362	389 / 423

*Standard base with outriggers in standard "X" pattern. See chart on page 10 for outrigger lengths.

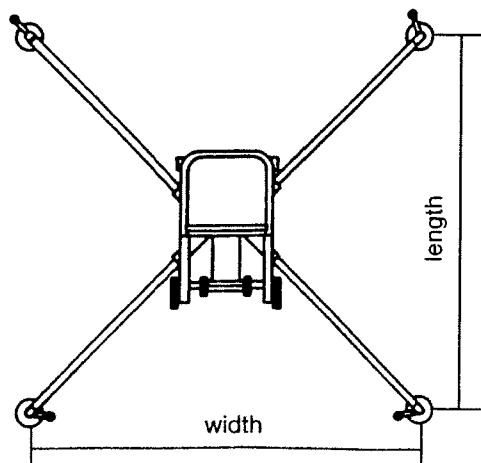


Specifications on early models may vary.

PL Specifications

Model		PL-12	PL-18	PL-24	PL-30	PL-36
Height-working max.	U.S. - ft	18	24	30	36	42
	Metric - m	5.5	7.3	9.1	11.0	12.8
Height-platform max.	U.S. - ft	12	18	24	30	36
	Metric - m	3.7	5.5	7.3	9.1	11
Height-stowed	U.S. - in	91	91	91	91	91
	Metric - cm	231	231	231	231	231
Height-tilted back	U.S. - in	78	78	78	78	78
	Metric - cm	198	198	198	198	198
Width-outriggers stowed	U.S. - in	29	29	29	29	29
	Metric - cm	74	74	74	74	74
Length-stowed	U.S. - in	51	51	51	51	51
	Metric - cm	130	130	130	130	130
Lift capacity	U.S. - lbs	300	300	300	300	250
	Metric - kg	136	136	136	136	113
Power source	DC	12V	12V	12V	12V	12V
	AC	110V / 220V	110V / 220V	110V / 220V	110V / 220V	110V / 220V
Platform dimensions (l x w x h)	U.S. - in	24 x 26 x 42	24 x 26 x 42	24 x 26 x 42	24 x 26 x 42	24 x 26 x 42
	Metric - cm	61 x 66 x 107	61 x 66 x 107	61 x 66 x 107	61 x 66 x 107	61 x 66 x 107
Outrigger footprint* (l x w)	U.S. - in	48 x 48	72 x 72	96 x 96	120 x 120	163 x 163
	Metric - cm	122 x 122	183 x 183	244 x 244	305 x 305	414 x 414
Shipping weight (DC/AC)	U.S. - lbs	329 / 404	379 / 454	439 / 514	489 / 564	856 / 938
	Metric - kg	149 / 183	172 / 206	199 / 233	222 / 256	389 / 425

*Standard base with outriggers in standard "X" pattern. See chart on page 10 for outrigger lengths.

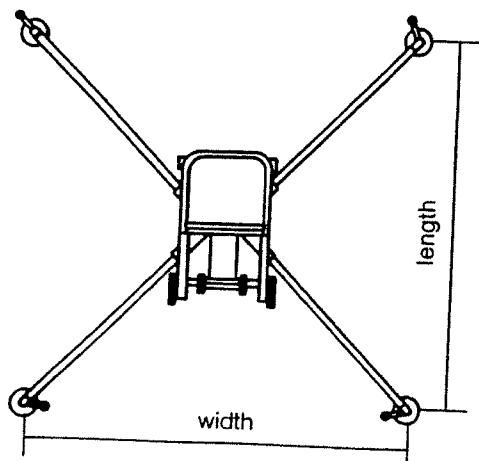


Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice or obligation.

PLM Specifications

Model		PLM-12	PLM-18	PLM-24
Height-working max.	U.S. - ft	18	24	30
	Metric - m	5.5	7.3	9.1
Height-platform max.	U.S. - ft	12	18	24
	Metric - m	3.7	5.5	7.3
Height-stowed	U.S. - in	89	89	89
	Metric - cm	226	226	226
Height-tilted back	U.S. - in	78	78	78
	Metric - cm	198	198	198
Width-outriggers stowed	U.S. - in	29	29	29
	Metric - cm	74	74	74
Length-stowed	U.S. - in	51	51	51
	Metric - cm	130	130	130
Lift capacity	U.S. - lbs	300	300	300
	Metric - kg	136	136	136
Platform dimensions (l x w x h)	U.S. - in	24 x 24 x 42	24 x 24 x 42	24 x 24 x 42
	Metric - cm	61 x 61 x 107	61 x 61 x 107	61 x 61 x 107
Outrigger footprint* (l x w)	U.S. - in	48 x 48	72 x 72	96 x 96
	Metric - cm	122 x 122	183 x 183	244 x 244
Shipping weight	U.S. - lbs	312	369	426
	Metric - kg	141	167	193

*Standard base with outriggers in standard "X" pattern. See chart on page 10 for outrigger lengths.



Specifications may vary on early models.