Genie®
A TEREX BRAND

Operator's Manual

Serial Number Range

IWP® Super Series

from IWPP-13000

ANSI/CSA
North America
South America
Asia

with
Maintenance
Information

Original Instructions
Sixth Edition
First Printing
Part No. 1298036GT

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These machines comply with
ANSI/SAIA A92.20
CAN/CSA B354.6

Introduction

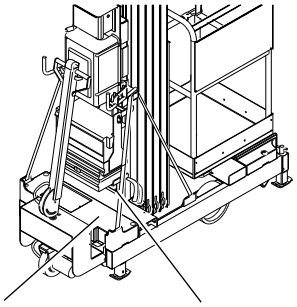
About this manual

Genie appreciates your choice of our machine for your application. Our number one priority is user safety, which is best achieved by our joint efforts. This book is an operation and daily maintenance manual for the user or operator of a Genie 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, contact Genie.

Product Identification

The machine serial number is located on the serial label.



Serial number stamped on chassis

Serial label

Intended Use and Familiarization Guide

The intended use of this machine is to lift personnel, including tools, and materials to an aerial work site. Before operating the machine, it's the operator's responsibility to read and understand this familiarization guide.

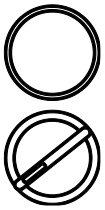
- ☑ Each person must be trained to operate a Mobile Elevating Work Platform (MEWP).
- ☑ Familiarization with the MEWP must be given to each person who is authorized, competent and trained.
- ☑ Only trained and authorized personnel should be permitted to operate the machine.
- ☑ The operator is responsible to read, understand, and obey the manufacturer's instructions and safety rules provided in the Operator's Manual.
- ☑ The Operator's Manual is located in the manual storage container, at the platform.
- ☑ For specific product applications, see **Contacting The Manufacturer**.

Introduction

Platform controls symbology and related machine movement:



Platform up



Platform down

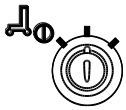
Ground controls symbology and related machine movement:



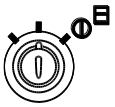
Keyswitch - Off



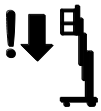
Keyswitch - On



Ground controls



Platform controls

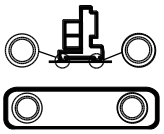


Emergency platform lowering

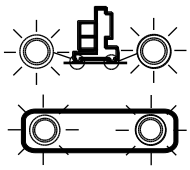


Low battery indicator

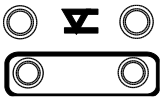




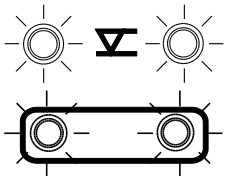
Footpad interlock - Off



Footpad interlock - On



Level sensor interlock - Off



Level sensor interlock - On

Interlocked functions:

- All platform and ground controls.

Limitations of use:

- The intended use of this machine is to lift personnel, including tools, and materials to an aerial work site.
- Do not elevate the platform unless the machine is on firm level ground.

Introduction

Bulletin Distribution and Compliance

Safety of product users is of paramount importance to Genie. Various bulletins are used by Genie to communicate important safety and product information to dealers and machine owners.

The information contained in the bulletins is tied to specific machines using the machine model and serial number.

Distribution of bulletins is based on the most current owner on record along with their associated dealer, so it is important to register your machine and keep your contact information up to date.

To ensure safety of personnel and the reliable continued operation of your machine, be sure to comply with the action indicated in a respective bulletin.

To view any open bulletins for your machine, visit us on the web at www.genielift.com.

Contacting the Manufacturer

At times it may be necessary to contact Genie. When you do, be ready to supply the model number and serial number of your machine, along with your name and contact information. At minimum, Genie should be contacted for:

Accident reporting

Questions regarding product applications and safety

Standards and regulatory compliance information

Current owner updates, such as changes in machine ownership or changes in your contact information. See Transfer of Ownership, below.

Transfer of Machine Ownership

Taking a few minutes to update owner information will ensure that you receive important safety, maintenance and operating information that applies to your machine.

Please register your machine by visiting us on the web at www.genielift.com or by calling us toll free at 1-800-536-1800.

Introduction



Danger

Failure to obey the instructions and safety rules in this manual 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.

Know and understand the safety rules 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 the manufacturer's instructions and safety rules—safety and operator's manuals and machine decals.

☑ You read, understand and obey employer's safety rules and worksite regulations.

☑ You read, understand and obey all applicable governmental regulations.

☑ You are properly trained to safely operate the machine.

Safety Sign Maintenance

Replace any missing or damaged safety signs. Keep operator safety in mind at all times. Use mild soap and water to clean safety signs. Do not use solvent-based cleaners because they may damage the safety sign material.

Hazard Classification

Decals on this machine use symbols, color coding, and signal words to identify the following:



Safety alert symbol—used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

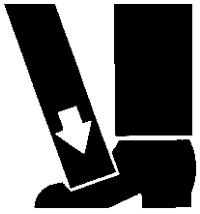
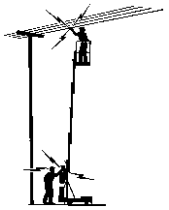
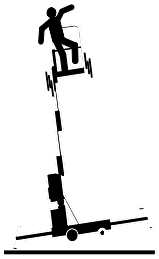
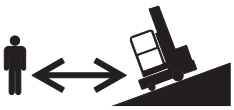
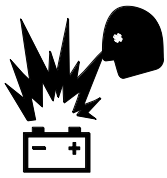
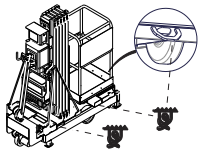
⚠ DANGER Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

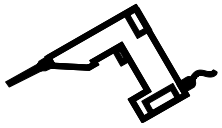
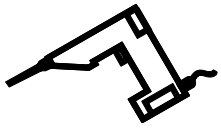
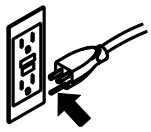
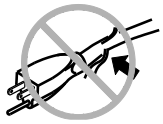
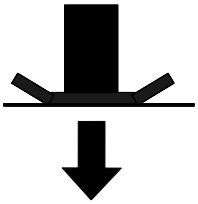
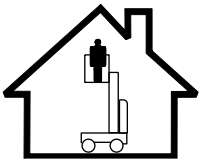
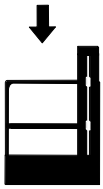
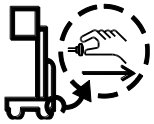
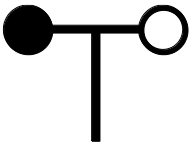
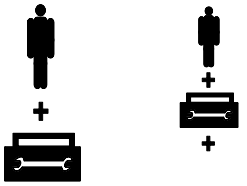
⚠ CAUTION Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE Indicates a property damage message.

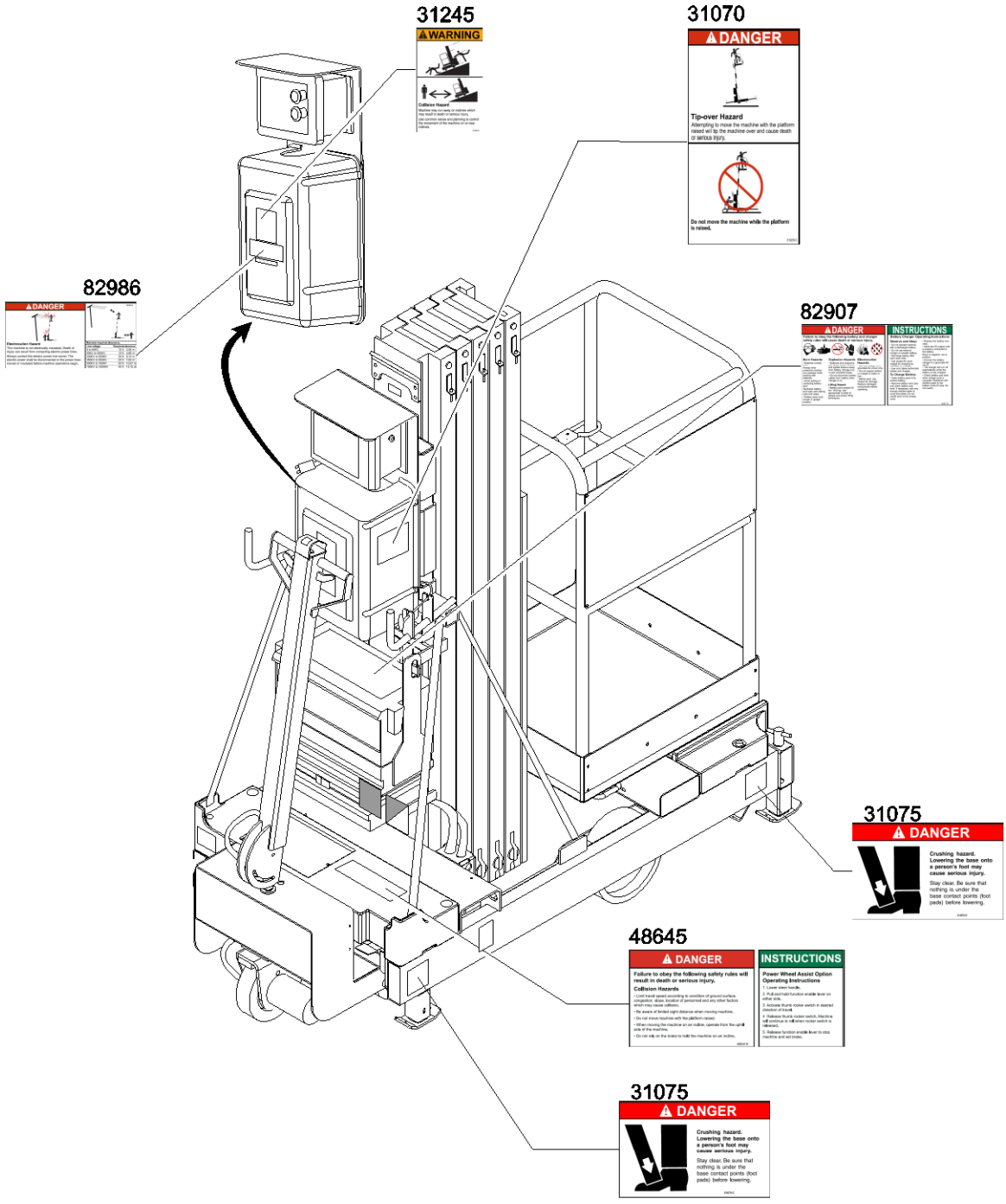
Symbol and Hazard Pictorials Definitions

 Read the operator's manual	 Read the service manual	 Crush hazard	 No smoking	 Collision hazard
 Crush hazard	 Tip-over hazard	 Tip-over hazard	 Electrocution hazard	 Tip-over hazard
 Maintain required clearance	 Tip-over hazard	 Use common sense and planning to control the movement of the machine on or near inclines.	 Collision hazard	 Tiedown
 Burn hazard	 Explosion hazard	 Fire hazard	 Electrocution hazard	 Transport diagram

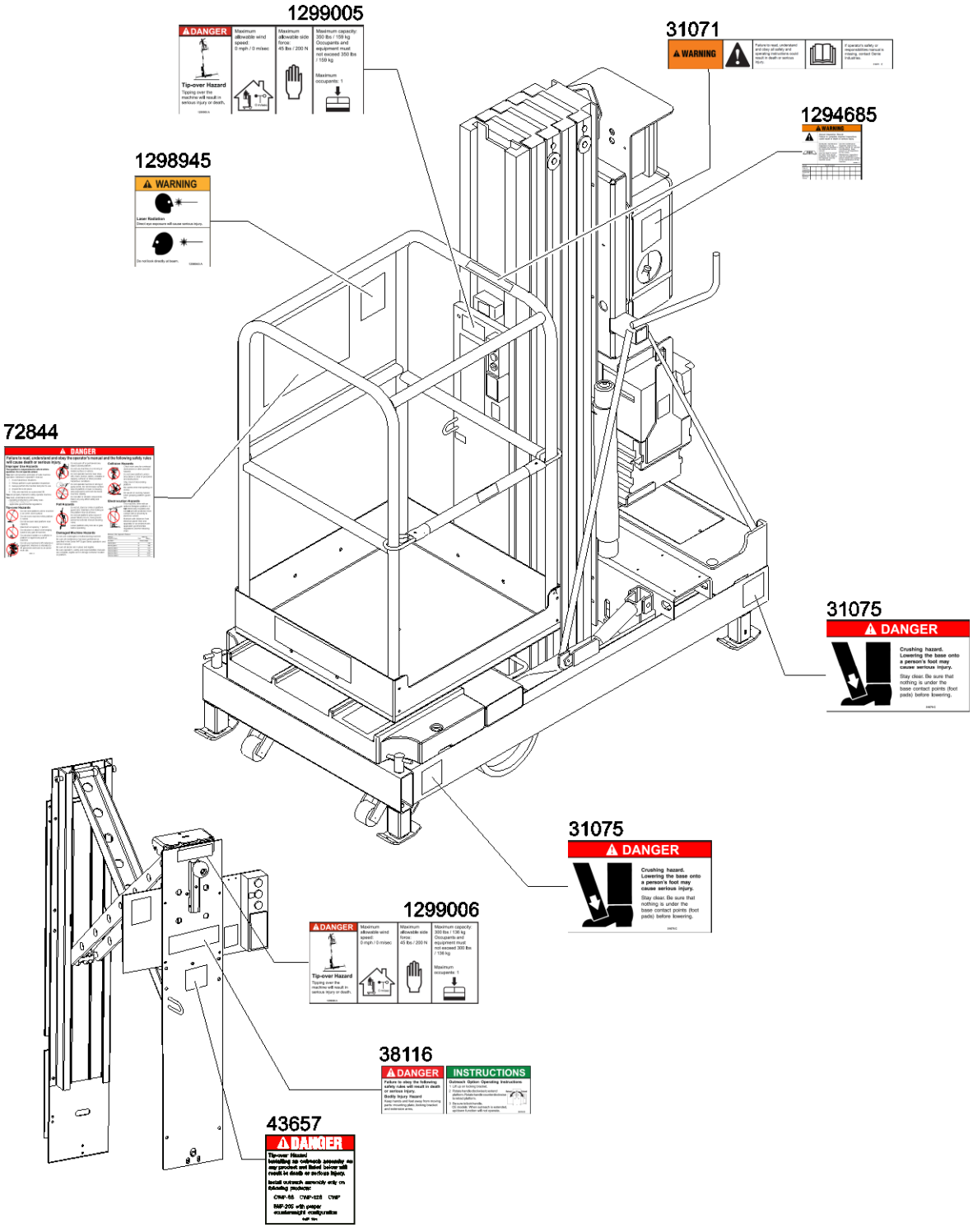
Symbol and Hazard Pictorials Definitions

 Voltage rating for power to platform	 Pressure rating for air line to platform	 Lifting point	 Release brakes	 Grounded AC 3-wire only
 Replace damaged wires and cords	 Wheel load	 Lanyard anchorage points	 Side force	 Manual force
 Footpad load	 Indoor	 Maximum capacity	 Emergency lowering	 Wind speed
 Maximum capacity including occupant, tools, materials and options				

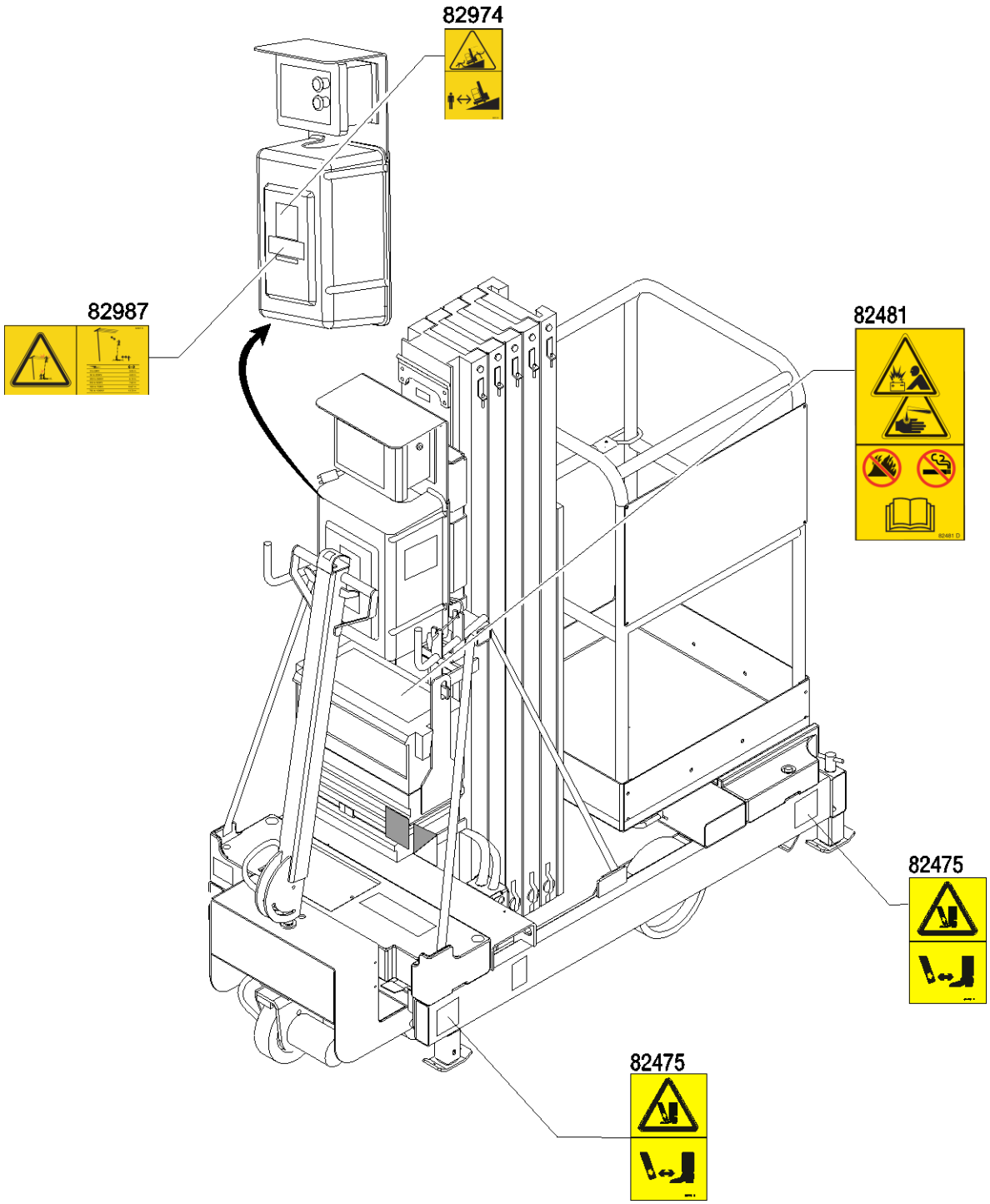
General Safety



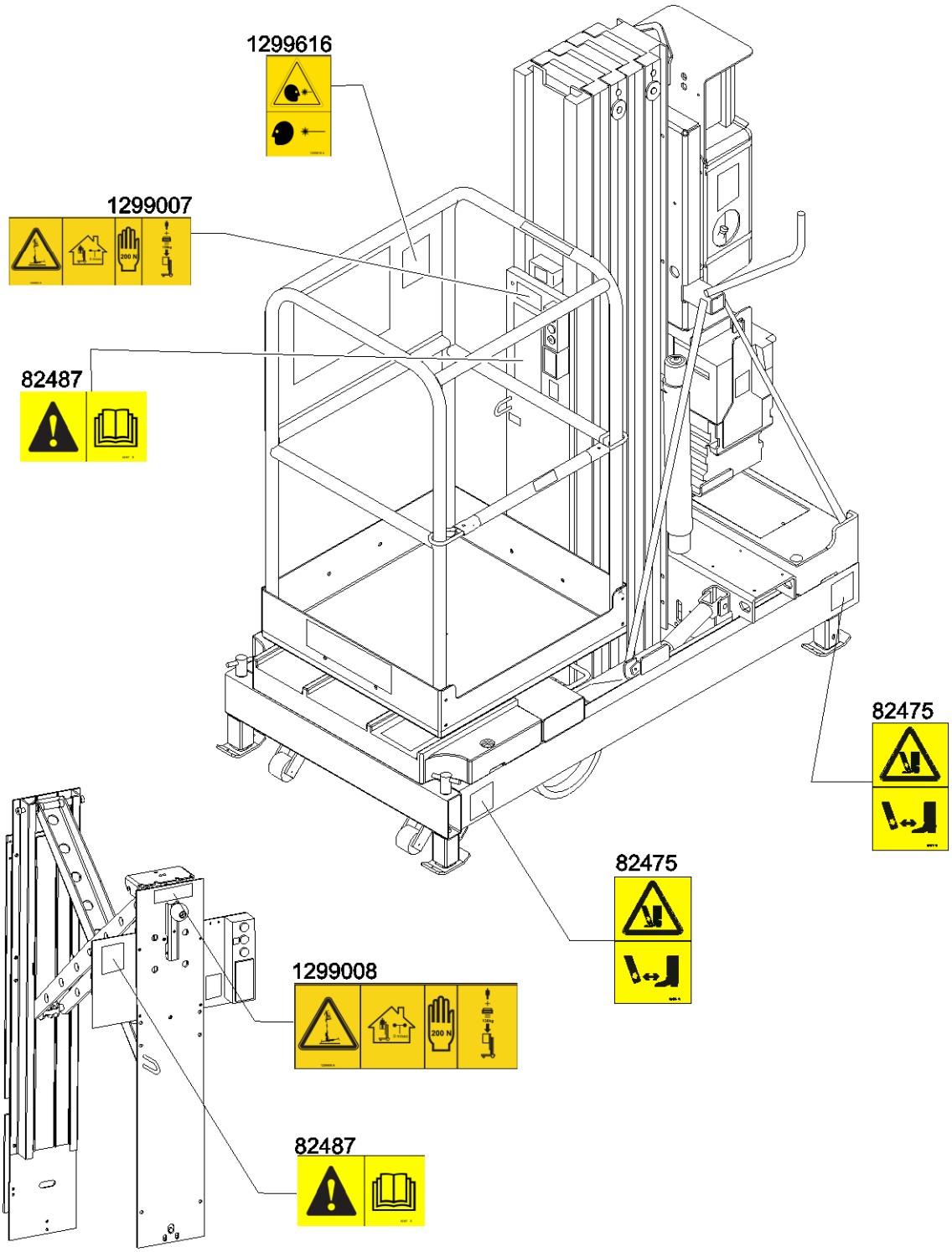
General Safety



General Safety



General Safety



Personal Fall Protection

Personal fall protection equipment (PFPE) is not required when operating this machine. If PFPE is required by job site or employer rules, the following shall apply:

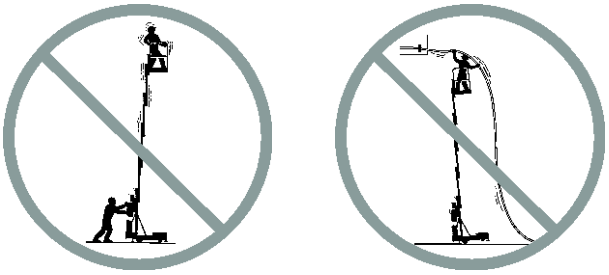
All PFPE must comply with applicable governmental regulations and must be inspected and used in accordance with the manufacturer’s instructions.

Work Area Safety

⚠ Tip-over Hazards

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

Do not move the machine while the platform is raised.

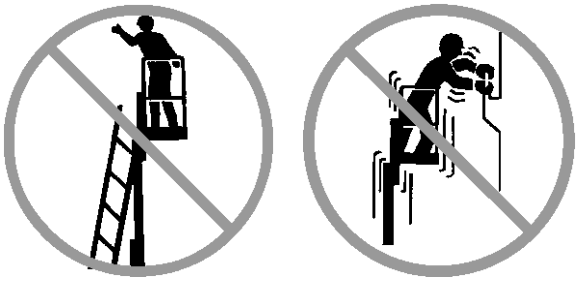


Do not cause a horizontal force or side load to machine by raising or lowering a fixed or overhanging load.

Do not transport tools and materials unless they are evenly distributed and can be safely handled by the person in the platform.

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

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



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

Maximum allowable manual force	45 lbs / 200 N

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

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

Do not replace items critical to machine stability with items of different weight or specification.

Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

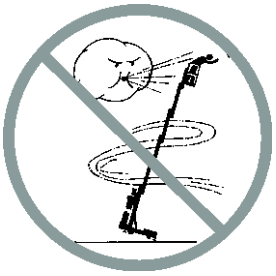
Use only Genie approved replacement parts.

When moving the machine with a forklift or other transport vehicle, the platform should be fully lowered, the machine should be turned off and no personnel shall remain in the platform.

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

Do not alter or modify a mobile elevating work platform without prior written permission from the manufacturer. Mounting attachments for holding tools or other materials onto the platform, toeboards, or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

Work Area Safety



Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.



Occupants, equipment and materials shall not exceed the maximum platform capacity.

ANSI, CSA, AUS & CE models		
Maximum capacity	350 lbs	159 kg
Maximum occupants		1 person
ANSI, AUS & CE models		
Maximum capacity IWP-20S with outreach option	300 lbs	136 kg
Maximum occupants		1 person

Do not install the outreach option on an IWP-25S or an IWP-30S. The outreach option is for the IWP-20S.

⚠ Fall Hazards

The guard rail system provides fall protection. If occupant(s) of the platform are required to wear personal fall protection equipment (PFPE) due to job site or employer rules, PFPE and its use shall be in accordance with the PFPE manufacturer's instructions and applicable governmental requirements. Attach the lanyard to the anchor provided in the platform.

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



Do not exit the platform while raised. If a power failure occurs, have ground personnel activate the manual lowering valve.

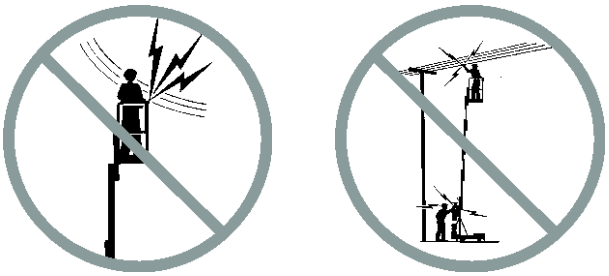
Keep the platform floor clear of debris.

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

Work Area Safety

⚠ Electrocution Hazards

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



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

Obey all local and governmental regulations regarding required clearance from electrical power lines. At a minimum, the required clearance contained in the chart below must be followed.

Voltage Phase to Phase	Minimum Safe Approach Distance	
0 to 300V	Avoid Contact	
300V to 50KV	10 ft	3.05 m
50KV to 200KV	15 ft	4.60 m
200KV to 350KV	20 ft	6.10 m
350KV to 500KV	25 ft	7.62 m
500KV to 750KV	35 ft	10.67 m
750KV to 1000KV	45 ft	13.72 m

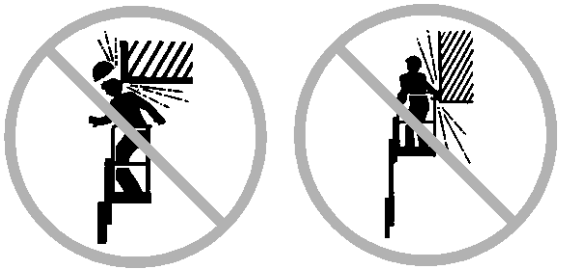
Allow for platform movement, electrical line sway or sag, and beware of strong or gusty winds.

Do not use the machine as a ground for welding.

Do not operate an AC powered machine or a DC battery charger unless using a 3-wire grounded extension cord connected to a grounded AC circuit. Do not alter or disable 3-wire grounded plugs.

⚠ Collision Hazards

Operators must comply with employer, job site, and governmental rules regarding use of personal protective equipment.

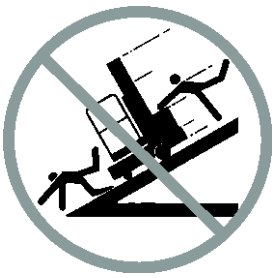


Check the work area for overhead obstructions or other possible hazards.

Be aware of crushing hazards when grasping the platform guard rail.

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

Work Area Safety



Use common sense and planning to control the movement of the machine on or near inclines.

Stay clear of descending platform.

⚠ Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual and the appropriate Genie service manual.

Be sure all decals are in place and legible.

Be sure the operator's, safety and responsibilities manuals are complete, legible and in the storage container located on the platform.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Do not use the machine as a ground for welding.

⚠ Improper Use Hazard

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

⚠ Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.

⚠ Crushing Hazard

Keep hands and limbs out of mast.

Use common sense and planning when operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine and fixed objects.

⚠ Explosion and Fire Hazards

Do not operate the machine or charge the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

Work Area Safety

⚠ Outreach Option Safety

Bodily Injury Hazard

Keep hands and feet away from moving parts: mounting plate, locking bracket and extension arms.

⚠ Power Wheel Assist Option Safety

Collision Hazard

Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Be aware of limited sight distance when moving the machine.

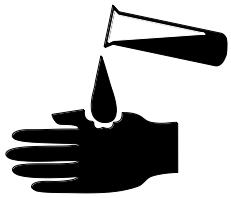
Do not move the machine with the platform raised.

When moving the machine on an incline, operate from the uphill side of the machine.

Do not rely on the brake to hold the machine on an incline.

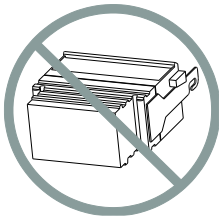
⚠ Battery Safety

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.

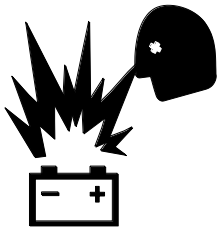


The battery pack must remain in the upright position.

Do not expose the batteries or the charger to water or rain during charging.

Work Area Safety

Explosion Hazards



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

Charge the battery in a well ventilated area.



Do not contact the battery terminals or the cable clamps with tools that may cause sparks.



Do not disconnect charger DC output wires from the battery when the charger is on.

Component Damage Hazard

Do not use any battery charger greater than 24V to charge the batteries.

Electrocution/Burn Hazards



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

Inspect daily for damaged cords, cables and wires. Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

Hazard

The battery pack weighs 90 lbs / 40.8 kg. Use the appropriate number of people and proper lifting techniques when lifting the battery pack.

Use the appropriate number of people and proper lifting techniques when lifting batteries.

Lockout After Each Use

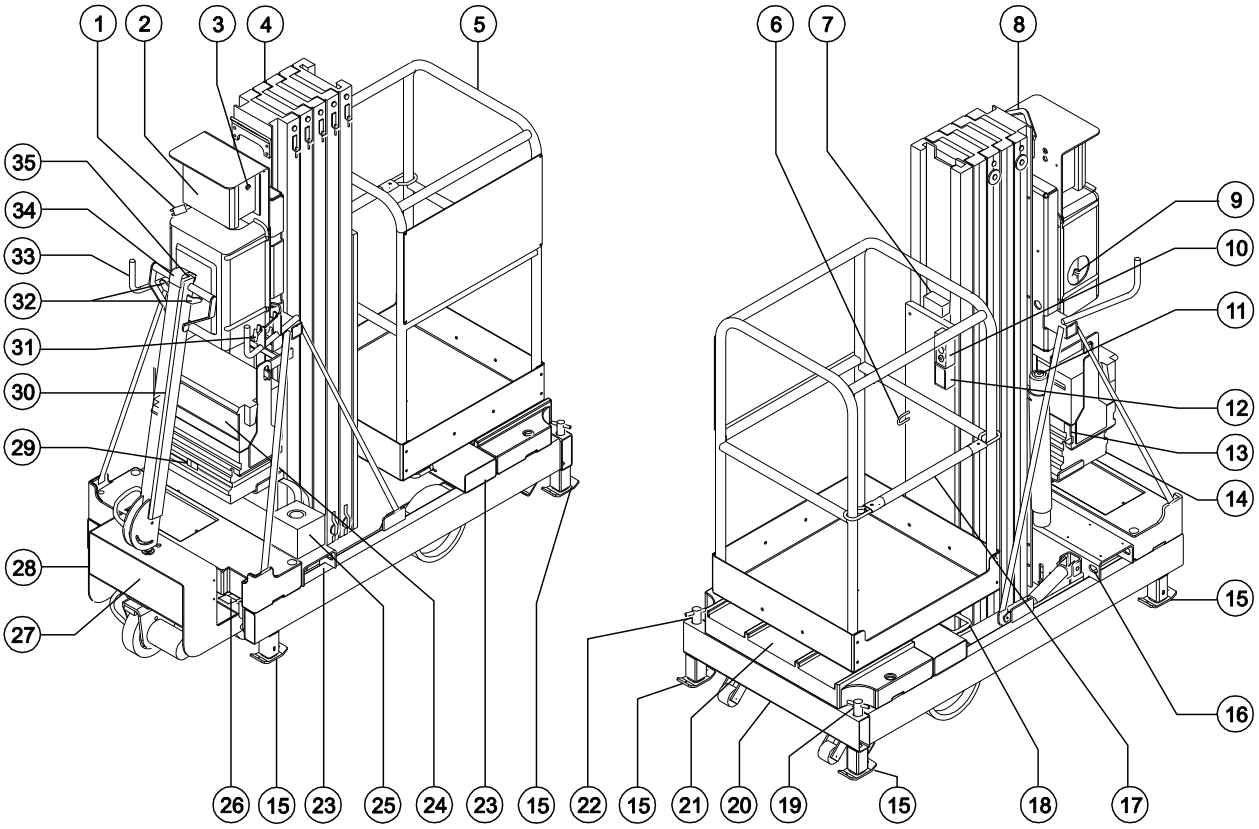
1 Select a safe parking location—firm level surface, clear of obstruction and traffic.

2 Lower the platform.

3 Turn the key switch to the off position and remove the key to secure from unauthorized use.

4 Charge the batteries.

Legend



1 AC models: Power supply for machine
DC models: Power to platform
2 Ground controls
3 Circuit breaker
4 Mast
5 Platform
6 Lanyard anchorage point
7 Operator's manual storage container
8 Lifting eye
9 Breather cap
10 Platform controls
11 Level sensor with bubble level*
12 AC outlet
13 DC models: Battery quick disconnect
14 DC models: Battery pack
15 Footpad
16 Transport tie-down
17 Platform entry mid-rail or gate
18 Forklift ring
19 Left side leveling jack
20 Winching point
21 Counterweight
22 Right side leveling jack
23 Forklift pocket
24 DC models: Battery charger
25 Level sensor with bubble level*
26 Foot pedal
27 Power wheel assist option
28 Manual lowering valve (located at the bottom of the hydraulic cylinder)
29 Battery strap
30 Steer handle - power wheel assist option
31 Base lowering handle
32 Function enable lever - power wheel assist option
33 Steering handle
34 Direction-reversing safety switch - power wheel assist option
35 Thumb rocker switch - power wheel assist option

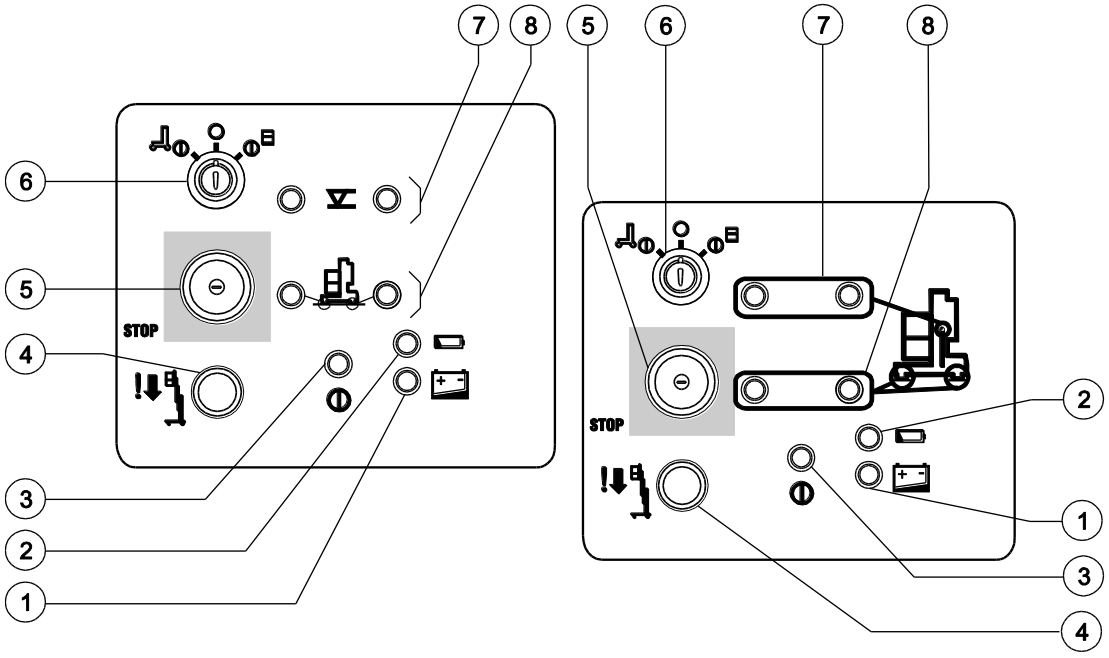
*Two different styles of level sensor were produced.

Controls

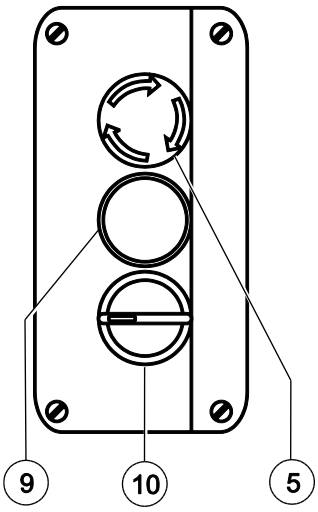
Ground controls

The ground control station can be used in the event of an emergency to rescue an incapacitated person in the platform.

Note: Two different interlock display decals were produced. The symbols on them are different but they both operate the same way. Both are illustrated here and in the text throughout this manual.



Platform controls



1 DC models: Low battery indicator light
2 Low battery indicator light for auxiliary lowering
3 Power light
4 Auxiliary platform lowering button
5 Red Emergency Stop button
6 Key switch
7 Level sensor interlock display lights
8 Footpad interlock display lights
9 Control activate button
10 Up/Down switch

Inspections



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 pre-operation inspection before going on to the next section.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Pre-operation Inspection Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items.

If damage or any unauthorized 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 going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Inspections

Pre-operation Inspection

- ❑ Be sure that the operator's, safety and responsibilities manuals are complete, legible and in the storage container located in the platform.
- ❑ Be sure that all decals are legible and in place. See Decals section.
- ❑ Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.
- ❑ DC models: Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

Check the following components or areas for damage, improperly installed, or missing parts and unauthorized modifications:

- ❑ Electrical components, wiring, and electrical cables
- ❑ Hydraulic power unit, hoses, fittings and cylinders
- ❑ Hydraulic manifolds and foot pump
- ❑ Platform entry mid-rail or gate
- ❑ Sequencing cables and pulleys
- ❑ Lifting chains and idler wheels
- ❑ Mast columns and counterweight
- ❑ Nuts, bolts and other fasteners
- ❑ Breather cap
- ❑ Foot pads
- ❑ Adjustable glide pads
- ❑ Lanyard anchorage points
- ❑ Casters

If equipped: Power wheel assist option

- ❑ Steer handle
- ❑ Hydraulic motor and hoses

If equipped: IWP-20S with Outreach option

- ❑ Locking bracket
- ❑ Handle and handle lock
- ❑ Extension arms
- ❑ Confirm proper counterweight configuration (part number is stamped on top of counterweight)

ANSI & CE Indoor	Front P/N	Rear P/N
IWP-20S Standard Base	37354	37355

Check entire machine for:

- ❑ Cracks in welds or structural components
- ❑ Dents or damage to machine
- ❑ Excessive rust, corrosion or oxidation

- ❑ Inspect and clean battery terminals and all battery cable connections.
- ❑ Verify that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.

Inspections



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 function tests before going on to the next section.

4 Inspect the workplace.

5 Only use the machine as it was intended.

Function Test 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.

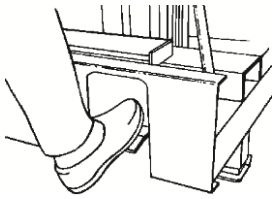
After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

Function Tests

Setup

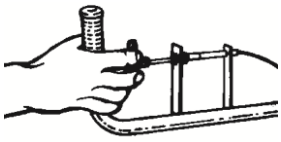
1 Select a test area that is firm, level and free of hazards.

2 Pump the foot pedal to raise the base.



⊙ Result: The wheels should contact the ground.

3 Pull the base lowering handle to fully lower the base.



⊙ Result: All four foot pads should come in firm contact with the ground.

4 Connect to the appropriate power source.

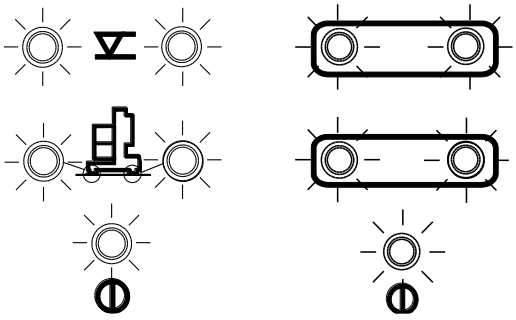
5 Use the bubble level and adjust the leveling jacks until the machine is level and all four foot pads are in firm contact with the ground.

6 Insert the key and turn to platform control.

7 Pull out the red Emergency Stop button at the ground controls to the on position.

8 Pull out the platform red Emergency Stop button to the on position.

⊙ Result: The power light should come on. Within 1 to 4 seconds, the two level sensor interlock display lights and the two foot pad interlock display lights should turn on and remain on.

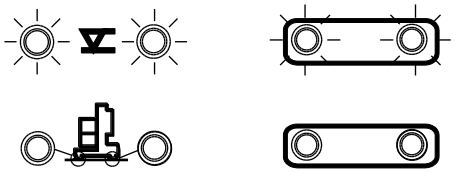


Note: Two different interlock display decals were produced. The symbols on them are different but they both operate the same way. Both are illustrated here and in the text throughout this manual.

Test Interlock System

9 Pump the foot pedal to raise the base.

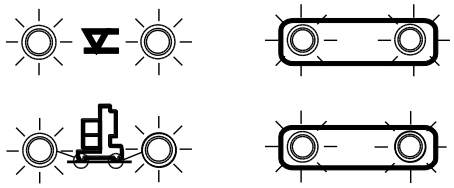
⊙ Result: The two footpad display lights should be off.



Inspections

10 Pull the base lowering handle to fully lower the base.

⊙ Result: The two footpad display lights should be on.

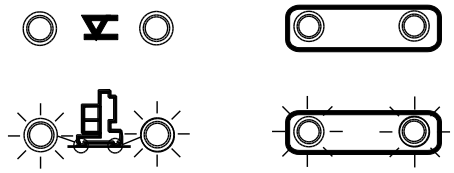


11 Pump the foot pedal to raise the base.

12 Turn both the leveling jacks clockwise to the full down position.

13 Pull the base lowering handle to fully lower the base.

⊙ Result: The base will lower and the two level sensor display lights should be off and remain off because the base is not level.



14 At the platform controls, push in the control activate button and rotate the up/down switch to the up position, then the down position.

⊙ Result: The platform up/down function should not operate.

Test Emergency Stop

15 Use the bubble level and adjust the leveling jacks until the machine base is level. Be sure all four display lights at the ground controls are on.

16 Push in the ground red Emergency Stop button to the off position.

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

⊙ Result: The up/down function should not operate.

18 Push in the platform red Emergency Stop button to the off position.

19 Pull out the red Emergency Stop button at the ground controls to the on position.

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

⊙ Result: The up/down function should not operate.

Inspections

Test Auxiliary Platform Lowering

21 Raise the platform slightly.

⊙ Result: The inner frame wheels should lift off the ground.

22 Disconnect the power source from the machine.

23 Turn the key switch to ground control.

24 Push in the auxiliary platform lowering button at the ground controls.

⊙ Result: The platform should lower.

25 Connect the power source to the machine.

26 Turn the key switch to platform control.

27 Raise the platform slightly.

28 Disconnect the power source from the machine.

29 Push in the control activate button and rotate the up/down switch in the down direction.

⊙ Result: The platform should lower.

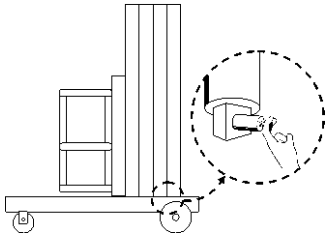
30 Connect the power source to the machine.

Test Manual Lowering

31 Pull out the red Emergency Stop button at the platform controls to the on position. Confirm that the interlock display lights and the power light are on.

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

33 Activate the manual lowering valve located at the bottom of the hydraulic cylinder.



⊙ Result: The platform should lower.

Test Platform Raise and Lower

34 Push in the control activate button and rotate the up/down switch to the up position.

⊙ Result: The platform should raise smoothly, free of hesitation.

35 Push in the control activate button and rotate the up/down switch to the down position.

⊙ Result: The platform should lower.

Test the Direction-reversing Safety Switch (models with Power Wheel Assist Option only)

36 Pull and hold the function enable lever on either side.

37 Press the thumb rocker switch and drive the machine in the reverse direction.

38 Press the direction-reversing safety switch on the end of the steer handle.

⊙ Result: The machine should travel in the forward direction.

Inspections



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 workplace.

Know and understand the workplace inspection before going on to the next section.

5 Only use the machine as it was intended.

Inspections

Workplace Inspection Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

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

Workplace Inspection Checklist

Be aware of and avoid the following hazardous situations:

- ❑ drop-offs or holes
- ❑ bumps, floor obstructions, or debris
- ❑ sloped surfaces
- ❑ unstable or slippery surfaces
- ❑ overhead obstructions and high voltage conductors
- ❑ hazardous locations
- ❑ inadequate surface support to withstand all load forces imposed by the machine
- ❑ wind and weather conditions
- ❑ the presence of unauthorized personnel
- ❑ other possible unsafe conditions

Inspections

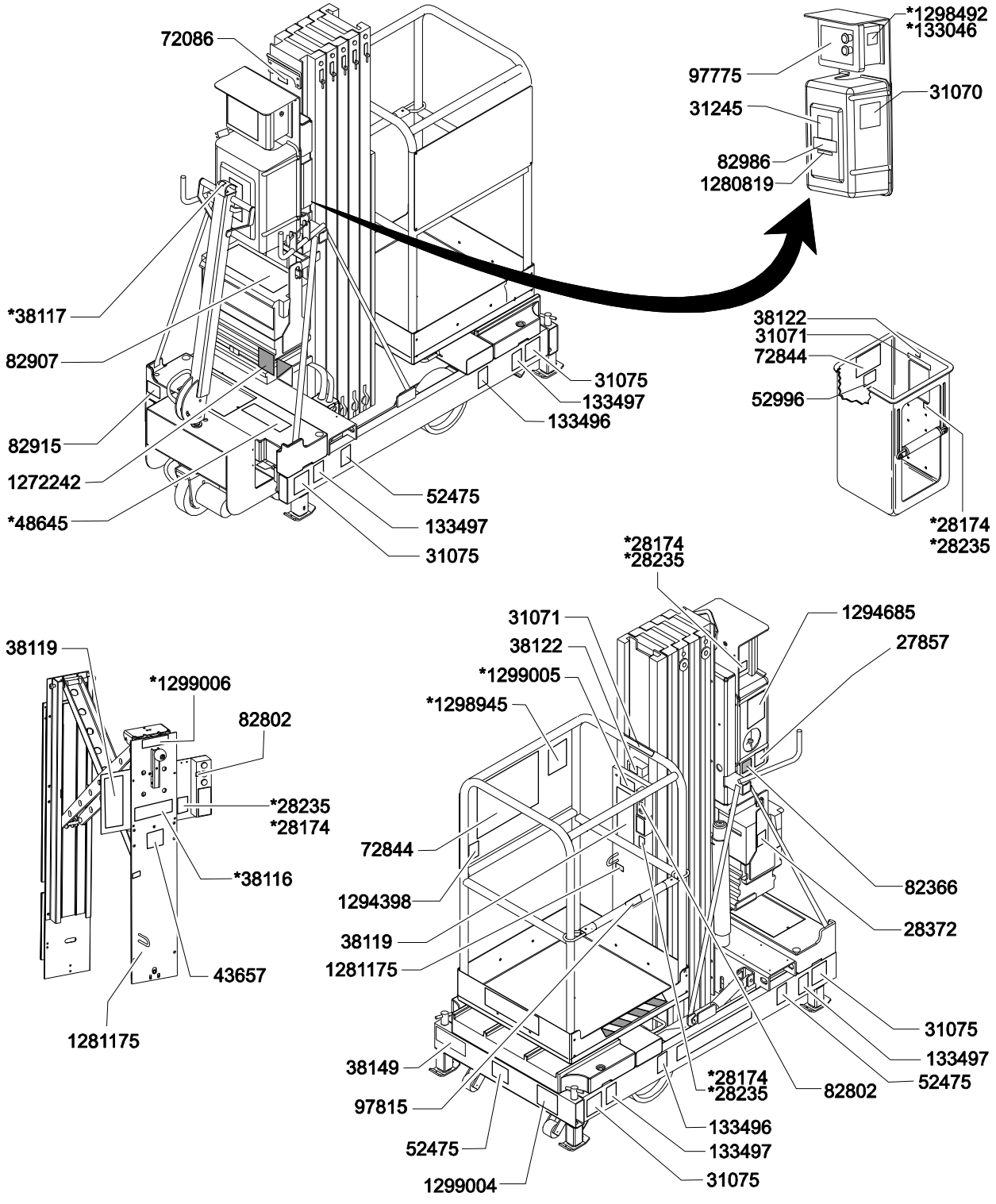
Inspection for Decals with Words

Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

Part No.	Decal Description	Qty
27857	Caution - Pipe Plug	1
28174	Label – Power to Platform, 230V*	2
28235	Label – Power to Platform, 115V*	2
28372	Label – Disconnect Battery Pack Plug	1
31070	Danger - Tip-over Hazard, Moving	1
31071	Warning - Failure to Read	1
31075	Caution - Crushing Hazard	4
31245	Warning - Collision Hazard	1
38116	Danger - Outreach Option Safety and Instructions*	1
38117	Notice - Power Wheel Assist Option Operating Instructions*	1
38119	Notice - Operating Instructions	1
38122	Label - Manual Storage Container	1
38149	Label – Patent	1
43657	Danger - Tip-over Hazard, Outreach Option	1
48645	Danger - Power Wheel Assist Option Safety*	1
52475	Label – Transport Tie-down	3
72086	Label – Lifting Point	1
72844	Danger - General Safety	1
82366	Label – Chevron Rando*	1
82802	Label - Function Enable	1
82907	Danger - Battery Charger Safety	1
82915	Label - Manual Lowering Valve	1
82986	Danger - Electrocution Hazard	1
97775	Label - Interlock Display	1
97815	Label – Lower Mid-rail	1
133046	Label – Input Power, 220V*	1
133496	Label - Wheel Load	2
133497	Label - Footpad Load	4
1272242	Label – Machine Registration/Owner Transfer	1
1280819	Label – Warning, Prop 65	1
1281175	Label – Lanyard Anchorage Point, Fall Restrained	1
1294398	Label – ANSI/CSA Compliant	1
1294685	Instructions – Annual Inspection	1
1298492	Label – Input Power, 100VAC*	1
1298945	Decal - Warning, Platform Locate Light, Word*	1
1299004	Label – Transport Diagram	1
1299005	Notice – Max. Capacity/Side Force, 350 lbs, IWP*	1
1299006	Notice – Max. Capacity/Side Force, 300 lbs, IWP*	1

■ Shading indicates decal is hidden from view, i.e. under covers* These decals are model, option or configuration specific.

Inspections



Inspections

Inspection for Decals with Symbols

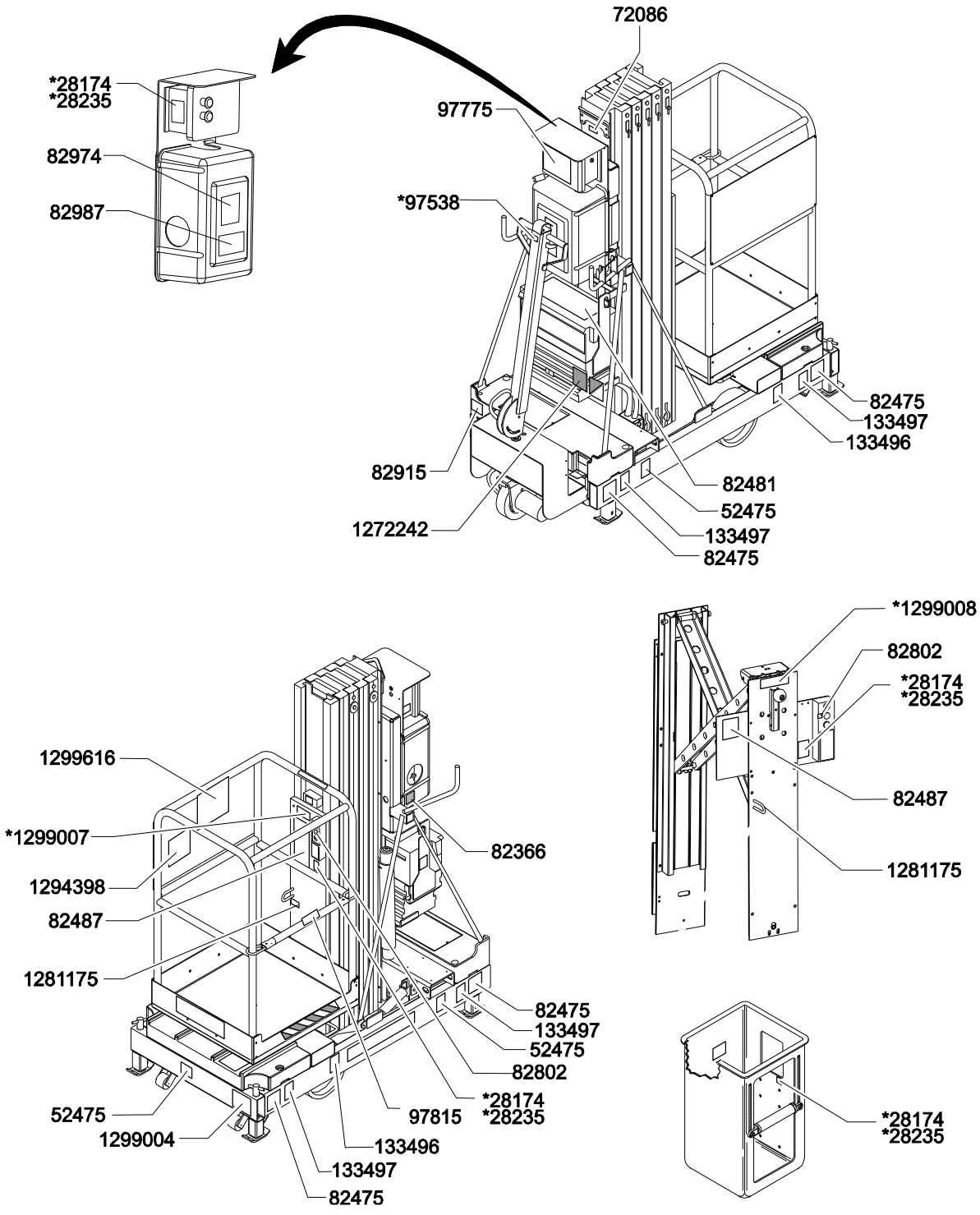
Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

Part No.	Decal Description	Qty
28174	Label – Power to Platform, 230V*	2
28235	Label – Power to Platform, 115V*	2
52475	Label – Transport Tie-down	3
72086	Label – Lifting Point	1
82366	Label – Chevron Rando*	1
82475	Label – Crushing Hazard, Outriggers	4
82481	Label – Battery/Charger Safety	1
82487	Label – Read the Manual	1
82802	Label - Function Enable	1
82915	Label - Manual Lowering Valve	1
82974	Warning - Collision Hazard	1
82987	Danger - Electrocution Hazard	1
97538	Label - Function Enable, Power Wheel Assist	1
97775	Label - Interlock Display	1
97815	Label – Lower Mid-rail	1
133496	Label - Wheel Load	2
133497	Label - Footpad Load	4
1272242	Label – Machine Registration	1
1281175	Label – Lanyard Anchorage Point, Fall Restrained	1
1294398	Label – ANSI/CSA Compliant	1
1299004	Label – Transport Diagram	1
1299007	Notice – Max. Capacity/Side Force, 159 kg/200N, IWP*	1
1299008	Notice – Max. Capacity/Side Force, 136 kg/200N, IWP*	1
1299616	Decal - Warning, Platform Locate Light, Symbol*	1

■ Shading indicates decal is hidden from view, i.e. under covers

* These decals are model, option or configuration specific.

Inspections



Operating Instructions

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 workplace.

5 Only use the machine as it was intended.

Fundamentals

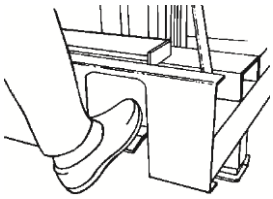
The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

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

If more than one operator is expected to use a machine at different times in the same work shift, each operator is expected to follow all safety rules and instructions in the operator's manual. That means every new operator should perform a preoperation inspection, function tests and a work place inspection before using the machine.

Setup

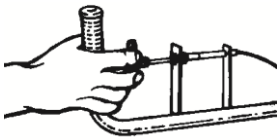
1 Pump the foot pedal to raise the base until the wheels contact the ground.



2 Use the steering handle to push the machine.

3 Position the machine on a firm, level surface directly below the work area.

4 Pull the base lowering handle to lower the base until all four footpads are in firm contact with the ground.



5 Connect to the appropriate power source.

DC models: Connect the battery pack.

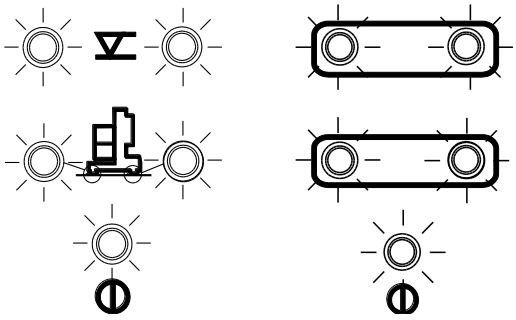
AC models: Connect to a grounded 15A AC power supply. Use a 12 gauge / 3.3mm^2 3-wire grounded extension cord no longer than 50 feet / 13 m.

6 Insert the key and turn to platform control.

7 Pull out the red Emergency Stop button at the ground controls and be sure the power light is on.

Operating Instructions

8 Be sure that the two level sensor interlock display lights and the two footpad interlock display lights are on.



Note: Two different interlock display decals were produced. The symbols on them are different but they both operate the same way. Both are illustrated here and in the text throughout this manual.

Emergency Stop

1 Push in the red Emergency Stop button at the platform controls or at the ground controls to stop the up function.

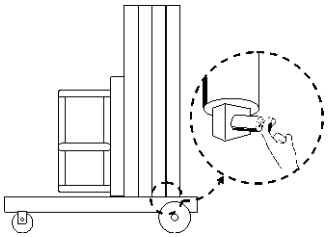
Platform Raise and Lower

1 Pull out the platform red Emergency Stop button to the on position.

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

Manual Lowering

1 Activate the manual lowering valve located at the bottom of the hydraulic cylinder.



Auxiliary Platform Lowering

1 Turn the key switch to ground control.

2 Activate the auxiliary platform lowering button at the ground controls.

Outreach Option Operating Instructions

1 Lift up on the locking bracket.

2 Rotate the handle clockwise to extend the platform. Rotate the handle counterclockwise to retract the platform.

3 Be sure to lock the handle.

CE models: When the outreach is extended, the up/down function will not operate. Retract the outreach and reposition the platform.

Operating Instructions

Power Wheel Assist Option Operating Instructions

1 Lower the steer handle.

2 Pull and hold the function enable lever on eitherside.

3 Activate the thumb rocker switch in the desired direction of travel.

4 Release the thumb rocker switch. The machine will continue to roll when the rocker switch is released.

5 Release the function enable lever to stop the machine and set the brake.

Note: The brake will hold the machine on inclines of less than 3°.

To Move The Machine Without Power Wheel Assist: Pull and hold the function enable lever to release the brake.

After Each Use

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

2 Pull the base lowering handle to lower the base until all four footpads are in firm contact with the ground.

3 Remove the key to secure from unauthorized use.

4 DC models: Charge the batteries.

Maintenance



Observe and Obey:

- ☑ Only routine maintenance items specified in this manual shall be performed by the operator.
- ☑ Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.
- ☑ Dispose of material in accordance with governmental regulations.

Maintenance Symbols Legend

NOTICE The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.



Indicates that tools will be required to perform this procedure.



Indicates that new parts will be required to perform this procedure.

Check the Batteries - DC Models



Proper battery condition is essential to good machine performance and operational safety. Improper fluid levels or damaged cables and connections can result in component damage and hazardous conditions.

⚠WARNING Electrocution hazard. Contact with hot or live circuits may result in death or serious injury. Remove all rings, watches and other jewelry.

⚠WARNING Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

NOTICE Perform this test after fully charging the batteries.

1 Put on protective clothing and eye wear.

2 Remove the battery vent caps.

3 Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.

4 Install the battery vent caps.

Maintenance

Check the Hydraulic Oil Level



Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

1 Be sure the platform is fully lowered.

2 Check the sight gauge on the side of the hydraulic reservoir.

⊙ Result: The hydraulic oil level should be visible in the middle of the sight gauge. Do not overfill.

Hydraulic oil specifications	
Hydraulic oil type	Chevron Rando HD equivalent

Scheduled Maintenance

Maintenance performed quarterly, annually and every two years must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.

Battery Charging Instructions



Battery and Charger Instructions

Observe and Obey:

- ☑ Do not use an external charger or booster battery.
- ☑ Charge the battery in a well-ventilated area.
- ☑ Use proper AC input voltage for charging as indicated on the charger.
- ☑ Use only a Genie authorized battery and charger.

To Charge Primary Battery

1. Open the battery pack lid to access the battery.
2. Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
3. Replace the battery vent caps.
4. Be sure that the DC output cord is properly connected to the battery. Black to negative, red to positive.
5. Connect the battery charger to a grounded AC circuit.
6. The charger will turn off automatically when the battery is fully charged.
7. Check the battery acid level when the charge cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

To Charge Secondary Battery (if equipped)

1. Disconnect the primary battery from the machine by unplugging the Anderson connector located at the rear of the primary battery box.
2. If the primary battery was already disconnected, ensure that the secondary battery is not connected to the machine.
3. Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
4. Replace the battery vent caps.
5. Connect the Anderson connector from the secondary battery to the Anderson connector located at the rear of the primary battery box.
6. Connect the battery charger contained in the top of the primary battery box to a grounded AC circuit.
7. The charger will turn off automatically when the battery is fully charged. If both batteries are discharged, it could take up to 24 hours to completely charge both batteries.
8. Check the battery acid level when the charge cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Battery Charging Instructions

Dry Battery Filling and Charging Instructions

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

2 Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

3 Install the battery vent caps.

4 Charge the battery.

5 Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Transport and Lifting Instructions

Transport Instructions

Observe and Obey:

- ☑ Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- ☑ The transport vehicle must be parked on a level surface.
- ☑ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- ☑ Vehicle capacity, loading equipment and surfaces must be capable of supporting the machine weight. See the serial plate for the machine weight.
- ☑ The base of the machine must remain lowered during all loading and transport procedures.
- ☑ The machine must be securely fastened to the transport vehicle. Use chains or straps of ample load capacity.

Winching the Machine onto a Flatbed Truck

1 Fully lower the platform.

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

3 Inspect the entire machine for loose or unsecured items.

4 Connect the cable to the winching point located on the front of the base.

5 Carefully winch the machine onto the truck.

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

Loading the Machine With a Forklift

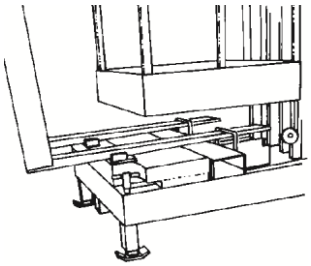
Use the forklift pockets located on the sides of the machine or the forklift rings located behind the counterweight under the platform.

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

To use the forklift rings:

1 Raise the platform 3 inches / 7.5 cm.

2 Position the forklift rings in the up position.



Transport and Lifting Instructions

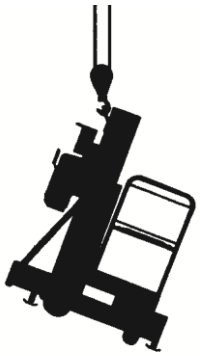
Loading the Machine With a Crane

Use the lifting eye mounted on the rear mast column.

The battery pack must be removed before lifting the machine with a crane. Disconnect the battery plug before removing the battery pack.

Inspect the entire machine and remove any loose or unsecured items.

Always place the lifting hook through the lifting eye so that it points away from the machine.

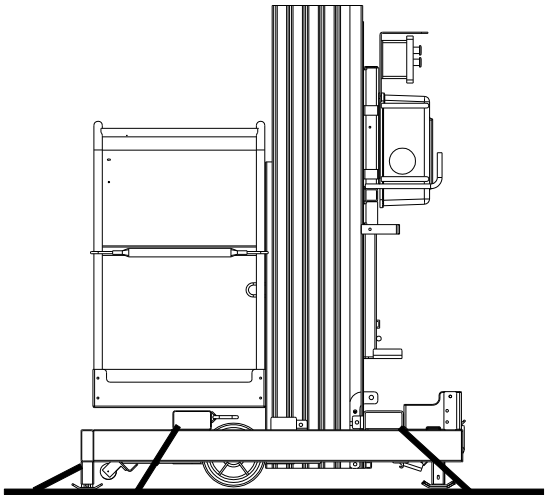


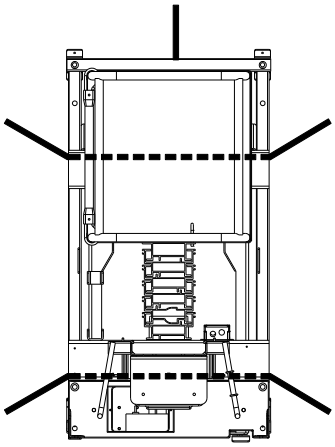
Securing the Machine

Use chains or straps of ample load capacity.

Use a minimum of 3 chains or straps.

Adjust the rigging to prevent damage to the chains.





Specifications

Specifications	
Height, working maximum	
IWP-20S	26 ft 3 in/8.0 m
IWP-25S	30 ft 11 in/9.4 m
IWP-30S	35 ft 6 in/10.8 m
Height, platform maximum	
IWP-20S	20 ft 3 in/6.1 m
IWP-25S	24 ft 11 in/7.6 m
IWP-30S	29 ft 6 in/9.0 m
Height, stowed, base fully lowered	76 in/1.9m
Height, stowed, base raised	78 in/2.0 m
Width	
IWP-20S, IWP-25S	32 in/81.3 cm
IWP-30S	40 in/101.6 cm
Length, all models	60 in/152.4 cm
Weight, all models	See Serial Label
Lift capacity, standard	350 lbs/159 kg
Lift capacity, with outreach	300 lbs/136 kg
Optional Outreach, extended	24 in/61 cm
Corner access, IWP-20S, IWP-25S	6 in/15 cm
Corner access, IWP-30S	7 in/18 cm
Power source	
DC Model	12V
AC Model	110V or 220V
Ambient operating temperature	-20°F to 135°F -29°C to 57°C

Airborne noise emissions	
Sound pressure level at ground workstation	<70 dBA
Sound pressure level at platform workstation	<70 dBA

Total vibration value to which the hand/arm system is subjected does not exceed 2.5 m/s^2.

Highest root mean square value of weighted acceleration to which the whole body is subjected does not exceed 0.5 m/s^2.

Platform dimensions (length x width)	
Standard platform gated or sliding mid-rail	27 x 26 x 44.75 in 69 cm x 66 cm x 1.1 m
Gated ultra-narrow platform	22 x 18 x 44.75 in 56 cm x 46 cm x 1.1 m
Gated narrow platform	26 x 20 x 44.75 in 66 cm x 51 cm x 1.1 m
Standard fiberglass platform	29 x 26.5 x 43.5 in 74 cm x 67 cm x 1.1 m
Narrow fiberglass platform	26 x 22 x 43.5 in 66 cm x 56 cm x 1.1 m

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

California Proposition 65

WARNING

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

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