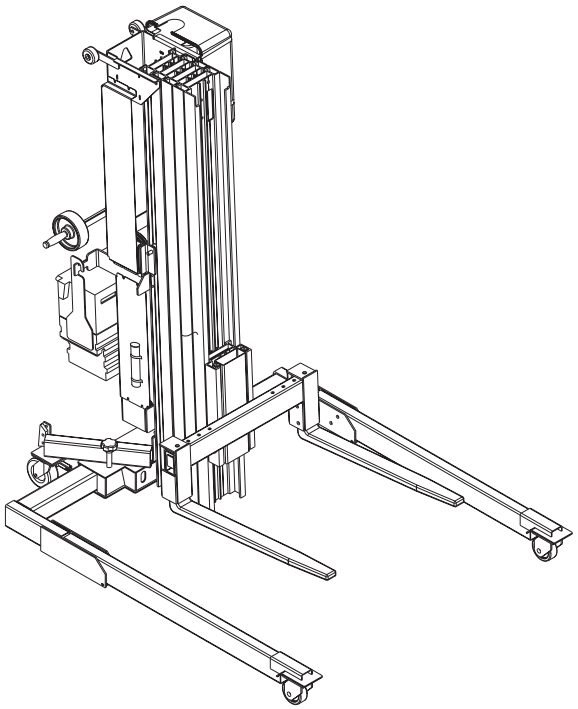
Genie Industries

Technical Publications

Genie POWERED SUPERLIFT™ Advantage

Operator's Manual



First Edition, First Printing
Part No. 52035

Genie POWERED SUPERLIFT™ Advantage

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.

Contents

	Page
Safety	1
Legend	6
Pre-operation Inspection	8
Function Tests	10
Workplace Inspection	13
Operating Instructions	14
Load Capacity Charts	17
Transport Instructions	19
Decals	20
Specifications	23

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Genie Industries

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Safety Rules



Warning

Failure to obey the instructions and safety rules in this manual may 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 above principle before going on to the next section.

2 Always perform a pre-operation inspection.

3 Always perform the function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as a material lift.

☑ **You** read, understand and obey:

manufacturer's instructions and safety rules–operator's manual and machine decals

employer's safety rules and worksite regulations

applicable governmental regulations

SAFETY RULES

Fall Hazards

Do not use as a personnel lifting platform or step.

Do not stand on load handling attachments.

Do not climb on mast.

Tip-over Hazards

Do not raise the load unless the legs have been fully lowered and locked and the casters are in full contact with the ground.

Do not raise the load unless the leg retainer pins are properly inserted through the leg and the base.



Do not remove the leg retainer pins while the machine is loaded and/or raised.





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

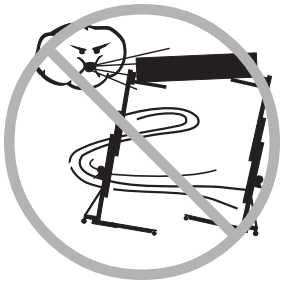


Do not raise the load unless the load handling attachment is properly secured to the machine.

Do not use blocks to level machine.

Do not move the machine with a raised load, except for minor positioning.





Do not operate the machine in strong or gusty winds. Increasing the load surface area will decrease machine stability in windy conditions.

Do not leave a load raised when windy conditions may occur unless the machine(s) are properly guy-wired.



Do not place ladders or scaffolding against any part of the machine.

Do not exceed the rated load capacity.

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

Avoid debris and uneven surfaces while rolling a Genie Superlift with the legs folded up.

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

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



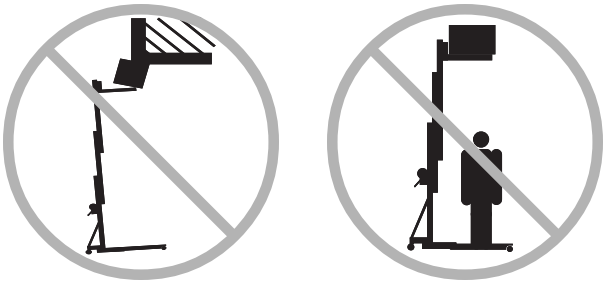
Do not use the machine on a moving or mobile surface or vehicle.

Do not use the rotating barrel handler or the vertical barrel stacker with a PSLA-20.

Collision Hazards

Do not raise if the load is not properly centered on the load handling attachment.

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



Do not stand under or allow personnel under the machine when the load is raised.

Do not stand under load. Safety brake system (if equipped) will allow the load to drop 1 to 2 feet before locking columns.

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

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

Use common sense and planning when transporting machine on an incline or slope.

Do not load for transport unless the machine and vehicle are on a level surface. Use proper lifting techniques to load the machine.

Lifting Hazards

Use the appropriate number of people and proper lifting techniques to load or tip the machine.

Use proper lifting techniques when installing or removing the load handling attachments.

Electrocution Hazards



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

Maintain safe distances away from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

Voltage	Minimum Safe Approach Distance	
Phase to Phase	Feet	Meters
0 to 300V	Avoid Contact	
300V to 50KV	10	3.1
50KV to 200KV	15	4.6
200KV to 350KV	20	6.1
350KV to 500KV	25	7.6
500KV to 750KV	35	10.7
750KV to 1000KV	45	13.7

Allow for mast movement and electrical line sway or sag, and be aware of strong or gusty winds.

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

Do not use the machine as a ground for welding.

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

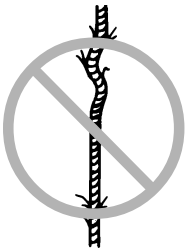
Bodily Injury Hazards

Do not grasp cable.

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

SAFETY RULES

Damaged Machine Hazards



Do not use a damaged or malfunctioning machine.

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

Conduct a thorough pre-operation inspection prior to each use.

Be sure all decals are in place and legible.

Be sure the operator's manual is legible and in storage box located on the lower cable guard.

Improper Use Hazard

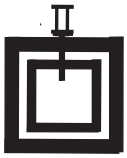
Never leave a Genie Superlift unattended with a load. Unauthorized personnel may attempt to operate the machine without proper instruction, creating an unsafe condition.

Crushing Hazards

Keep hands and fingers away from folding legs and other potential pinch points.

Maintain a firm grasp on the leg when the retaining pin is removed. The leg will drop.

Adjustable Flat Forks



Do not raise the load unless the snap pins are properly inserted in the forks.

Fork Extensions

Do not raise the load unless the fork extensions are properly secured to the forks.

Battery and Charger Safety

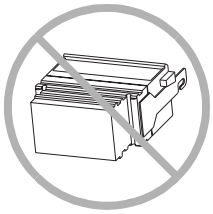
Burn Hazards

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





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



Battery pack must remain in upright position.

Explosion Hazards

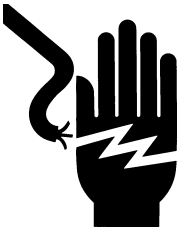


Batteries emit explosive gas. Keep sparks, flames and lighted tobacco away from battery.

Charge batteries in a well-ventilated area.

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

Electrocution Hazards



Connect charger to a grounded AC circuit only.

Do not expose battery or charger to water and/or rain.

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

Lifting Hazard

Battery pack weighs 90 lbs (40.8 kg). Use the appropriate number of people and proper lifting techniques when lifting the battery pack.

Decal Legend

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

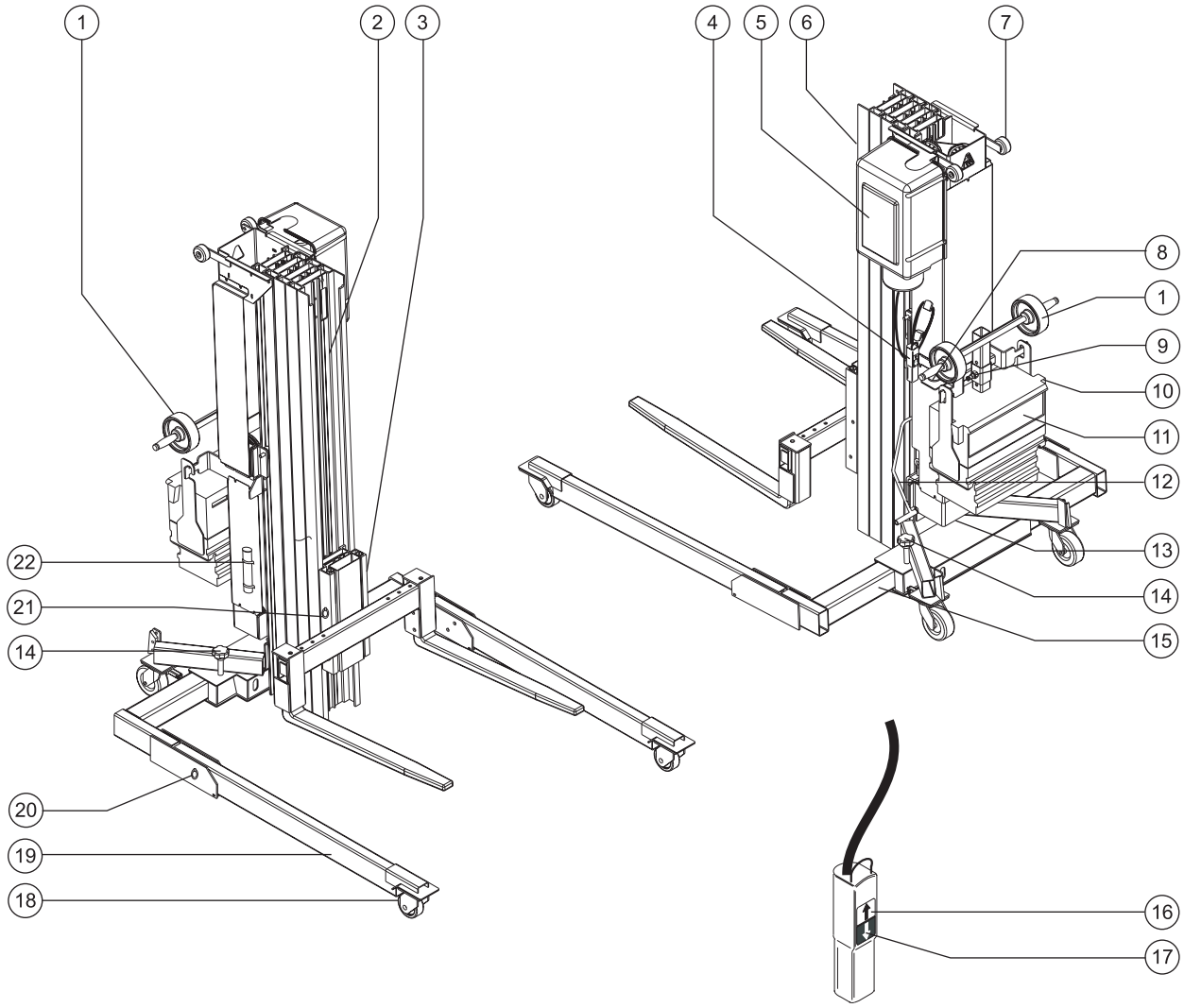
⚠DANGER Red—used to indicate the presence of a hazard that **will** cause death or serious injury.

⚠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.

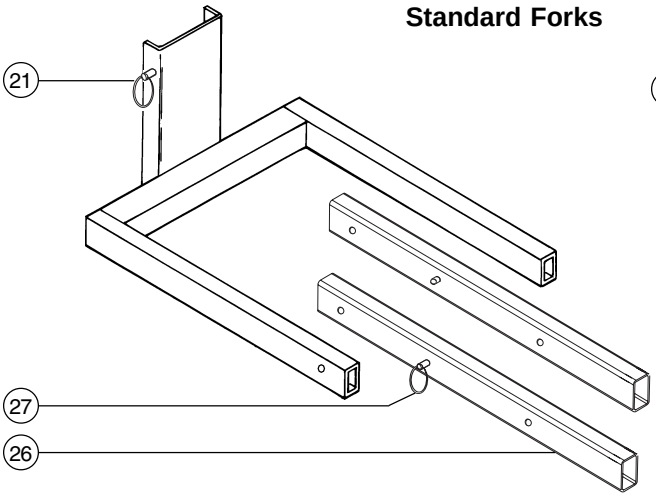
Legend



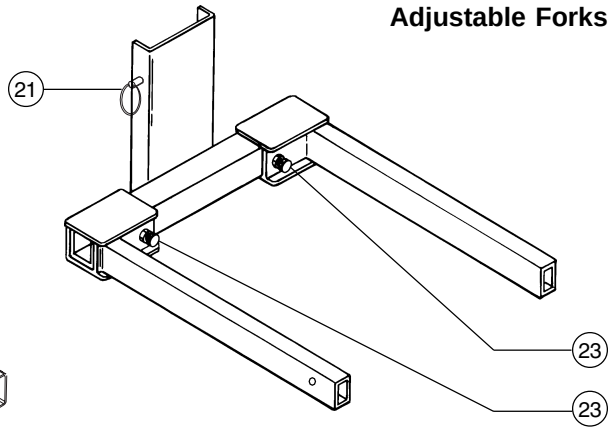
1 Loading wheels/steer handles
2 Cable
3 Carriage
4 Hand controls
5 Power unit
6 Mast
7 Loading wheels
8 Emergency Stop button
9 Loading wheel adjustment pin
10 Battery pack
11 Battery charger
12 Hold down bar
13 Manual lowering valve
14 Arm lock knob
15 Straddle base
16 Up button
17 Down button
18 Leg swivel caster
19 Leg
20 Leg retaining pin
21 Load handling attachment pin
22 Manual storage container
23 Snap pin
24 Lifting shackle
25 Fork mounting bracket
26 Fork extension
27 Fork extension retaining pin

LEGEND

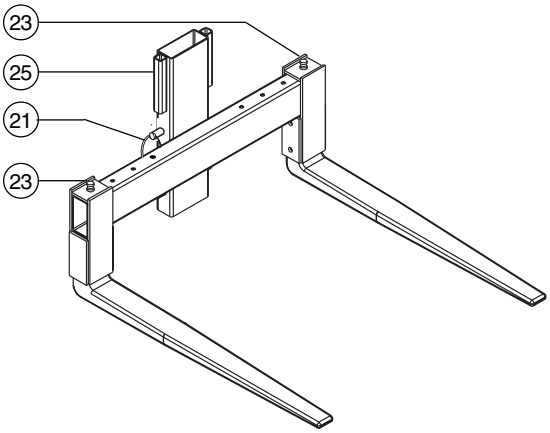
Standard Forks



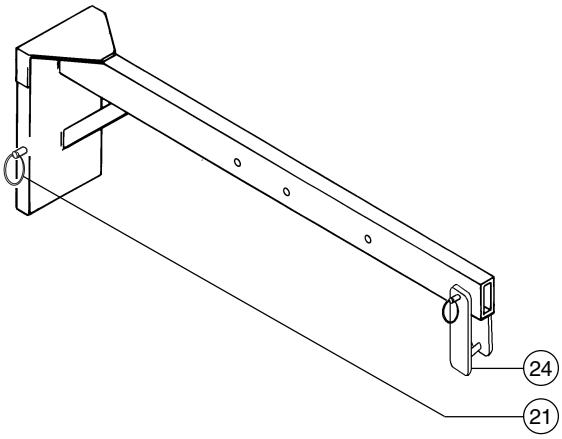
Adjustable Forks



Flat Forks



Boom



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 a material lift.

Fundamentals

It is the responsibility of the operator to perform a Pre-operation Inspection.

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.

Refer to the list on page 9 and check each of the items and locations 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 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 manuals.

Pre-operation Inspection

- ❏ Be sure that the operator's manual is complete, legible and in the storage box located on the lower cable guard.
- ❏ Be sure that all decals are legible and in place (see Decals, page 20).
- ❏ Check the hydraulic oil level. Check for leaks.
- ❏ Check the following components or areas for damage and improperly installed, loose or missing parts:
  - · Electrical components, wiring and electrical cables
  - · Hydraulic power unit, hoses, fittings and cylinder
  - · Straddle base components
  - · Legs
  - · Mast columns
  - · Carriage hold down bar
  - · Cable anchors
  - · Pulleys and rollers
  - · Casters and wheels
  - · Load handling attachment(s)
  - · Nuts, bolts and other fasteners
  - · Cable (kinks, frays, abrasions)
- ❏ Check entire machine for:
  - · Dents or damage
  - · Corrosion or oxidation
  - · Cracks in welds or structural components
- ❏ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- ❏ Inspect and clean battery terminals and all battery cable connections.

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 a material lift.

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

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

Setup

1 Remove the leg retainer pin and lower the leg to the down position. Insert the pin through the leg and base.



Straddle Base

1 Place a 2 inch (5.1 cm) block under one leg swivel caster.

2 Loosen the arm lock knob on the opposite adjustable arm. Push down on the lock knob.

3 Position the adjustable arm to the desired width.

4 Tighten the arm lock knob while supporting the leg assembly.

5 Repeat steps 1-4 for the other arm.

Load Handling Attachments

Standard Forks and Standard Fork Options

1 Place the forks inside the carriage.

2 Insert the retaining pin.



Load Platform with Standard Forks

1 Place load platform on standard forks.

Pipe Cradle

1 Attach pipe cradles to forks. Be sure fasteners are tightened.

Fork Extensions

1 Slide each extension tube onto the fork.

2 Adjust to desired position and insert the retaining pins.

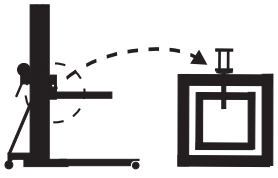
Adjustable Forks and Adjustable Fork Options

1 Place the forks inside the carriage.

2 Insert the retaining pin.



3 Adjust the forks to the desired width and be sure the snap pins are properly inserted in each fork.



FUNCTION TESTS

Load Platform with Adjustable Forks

1 Adjust forks to 23 inch width.

2 Place load platform on adjustable forks.

Pipe Cradle

1 Attach pipe cradles to forks. Be sure fasteners are tightened.

Fork Extensions

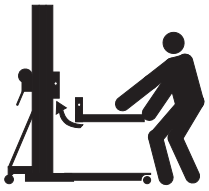
1 Slide each extension tube onto the forks.

2 Adjust to desired position and insert the retaining pins.

Flat Forks

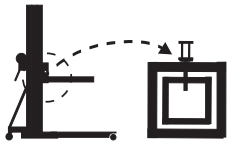
1 Place the fork mounting bracket inside the carriage.

2 Insert the retaining pin.





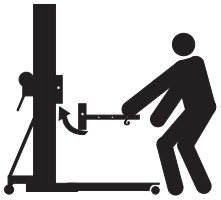
3 Adjust the forks to the desired width and be sure the snap pin is properly inserted in each fork.

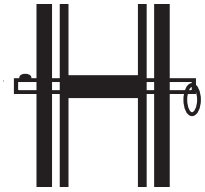


Standard Boom

1 Place the boom inside the carriage.

2 Insert the retaining pin.





3 Attach the lifting shackle to the desired hole on the boom.

Test Emergency Stop Button & Machine Functions

1 Connect the battery pack.

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

3 Push in the up button on the hand controls.

⊙ Result: The carriage should rise to the top of the front mast section, followed in consecutive order by each mast section.

4 Push in the red Emergency Stop button to the OFF position.

5 Push in the down button on the hand controls, then the up button.

⊙ Result: No functions should operate.

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

7 Push in the down button on the hand controls.

⊙ Result: The carriage should lower.

Test Manual Lowering

1 Raise the carriage.

2 Pull the manual lowering lever located at the bottom of the lift cylinder.

⊙ Result: The carriage should lower.

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 a material lift.

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

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.

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 work place.

5 Only use the machine as a material lift.

Fundamentals

Using the machine for anything other than lifting material is unsafe.

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 pre-operation inspection, function tests and a work place inspection before using the machine.

Setup

Select an area that is firm, level and free of obstructions.

Follow setup procedures beginning on page 11.

Raising and Lowering Load

1 Center the load on the load handling attachment (see *Load Capacity Charts*, page 17).

2 Connect the battery pack.

3 Adjust the straddle base to the desired width.

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

5 Push in the up or down button on the hand controls for the desired direction of travel.

Moving Machine with a Load

It is best to move the machine on the worksite with no load. Moving a raised load should be restricted to positioning for loading and unloading. If it is necessary to move the machine with a raised load, understand and obey the following safety rules:

- Area is level and clear of obstructions
- Load is centered on the load handling attachment
- Avoid sudden starts and stops
- Travel with load in the lowest possible position
- Keep personnel away from machine and load

After Each Use

To prepare Genie Superlift for storage, follow setup procedure in reverse order.

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

Charge the batteries.

OPERATING INSTRUCTIONS



Battery and Charger Instructions

Observe and Obey:

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

To Charge 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 If equipped: Set the power switch to the OFF position. 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 If equipped: Set the AC Selector switch to the proper voltage.

7 Set the power switch to the AUTO position.

8 Monitor the ampere meter for the correct charge rate. The initial charge rate should be approximately 10A. The charge rate will decrease as the battery reaches full charge.

9 Charger models equipped with manual/auto selector switch: If the ampere meter indicates that the battery is not being charged, set the power switch to the MANUAL position until the ampere meter begins to move up the scale. Then set the power switch to the AUTO position.

10 The charger will turn off automatically when the battery is fully charged. If equipped: Set the power switch to the OFF position, then disconnect from AC supply.

11 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.

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.

Load Capacity Charts

Observe and Obey:

☑ Failure to properly position the load may result in death or serious injury.

☑ Verify that the load you wish to raise does not exceed the maximum load for your load center. See Load Capacity Chart at page 18.

⚠WARNING Tip-over hazard. Raising a load that exceeds the machine capacity may result in death or serious injury.

☑ A load center is defined as the balancing point (center of gravity) of a load and must be positioned within the load center zone.

⚠WARNING Tip-over hazard. Failure to position the load center within the load center zone may result in death or serious injury.

Forks

Load Positioning Instructions

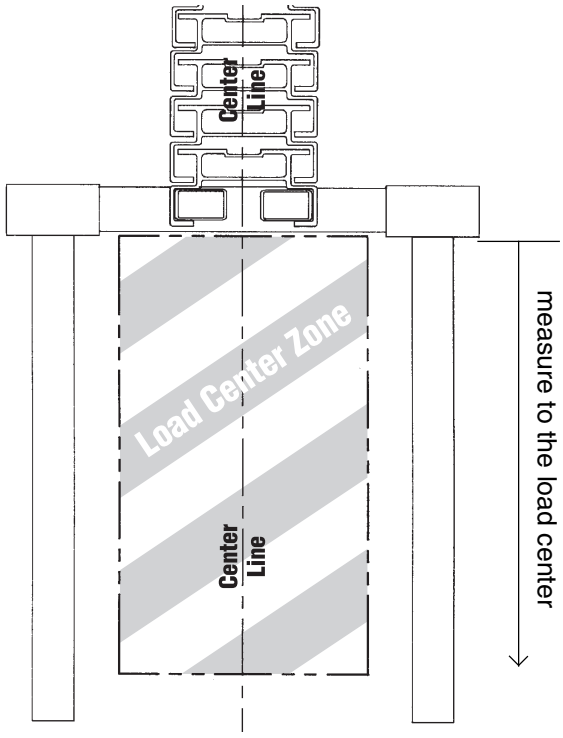
1 Determine the weight of the load and the location of its load center.

2 Measure to the load center from the side of the load that will be closest to the carriage.

3 Refer to the chart on page 18 to determine if the machine is capable of lifting the weight at the location on the forks.

4 Place the load so that it rests on the forks, as close to the carriage as possible.

5 Position the load so that the load center is within the load center zone.



See chart on page 18 for maximum load centers for standard forks, adjustable forks and flat forks.

LOAD CAPACITY CHARTS

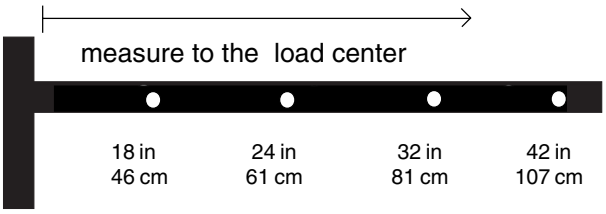
Boom

Load Positioning Instructions

1 Determine the weight of the load and the location of its load center.

2 Refer to the chart below to determine if the machine is capable of lifting the weight at the location on the boom.

3 Secure the load to the lifting shackle on the boom.



Maximum Load Centers

(measure from front of carriage)

Standard Forks:	24 in	61 cm
Adjustable Forks:	24 in	61 cm
Boom:	42 in	107 cm
Flat Forks:	28 in	71 cm
Load Platform:	24 in	61 cm
Pipe Cradle:	18 in	46 cm
Fork Extensions:	42 in	107 cm

Load Capacity Chart

		Load Center												
inches		18	20	22	24	26	28	30	32	34	36	38	40	42
cm		46	51	56	61	66	71	76	81	86	91	97	102	107
Model														
PSLA-20	lbs	800	733	667	600	563	525	488	450	430	410	390	370	350
	kg	363	332	303	272	255	238	221	204	195	186	177	168	159

Transport Instructions

Transport Instructions

Observe and Obey:

- ☑ Transport vehicle must be parked on a level surface.
- ☑ Transport vehicle must be secured to prevent rolling while machine is being loaded.
- ☑ Be sure vehicle capacity, loading surfaces and chains or straps are sufficient to withstand machine weight (see Specifications, page 23).
- ☑ The machine must be secured to the transport vehicle with chains or straps of ample load capacity.
- ☑ Use the appropriate number of people and proper lifting techniques to load or tip the machine.

Loading the Machine

Be sure to remove the load handling attachment from the machine.

1 Fully lower the carriage, to lock for transport.

2 Rotate the carriage hold down bar over the carriage.

3 Raise the carriage until it contacts the carriage hold down bar.

4 DC models: Disconnect and remove the battery pack.

5 Adjust the loading wheels to the desired position. Be sure the load wheel adjustment pin is properly inserted.

6 Lock the rear base casters.



7 Place the machine against the vehicle. Use proper lifting techniques to load the machine into the transport vehicle. Be sure to check that the carriage is locked in the lowered position.



8 To unload, follow loading instructions in reverse order.

Loading the Machine with a Crane

Be sure to place the legs in the stored position.

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

Use the lifting bracket on the top of the rear mast column.

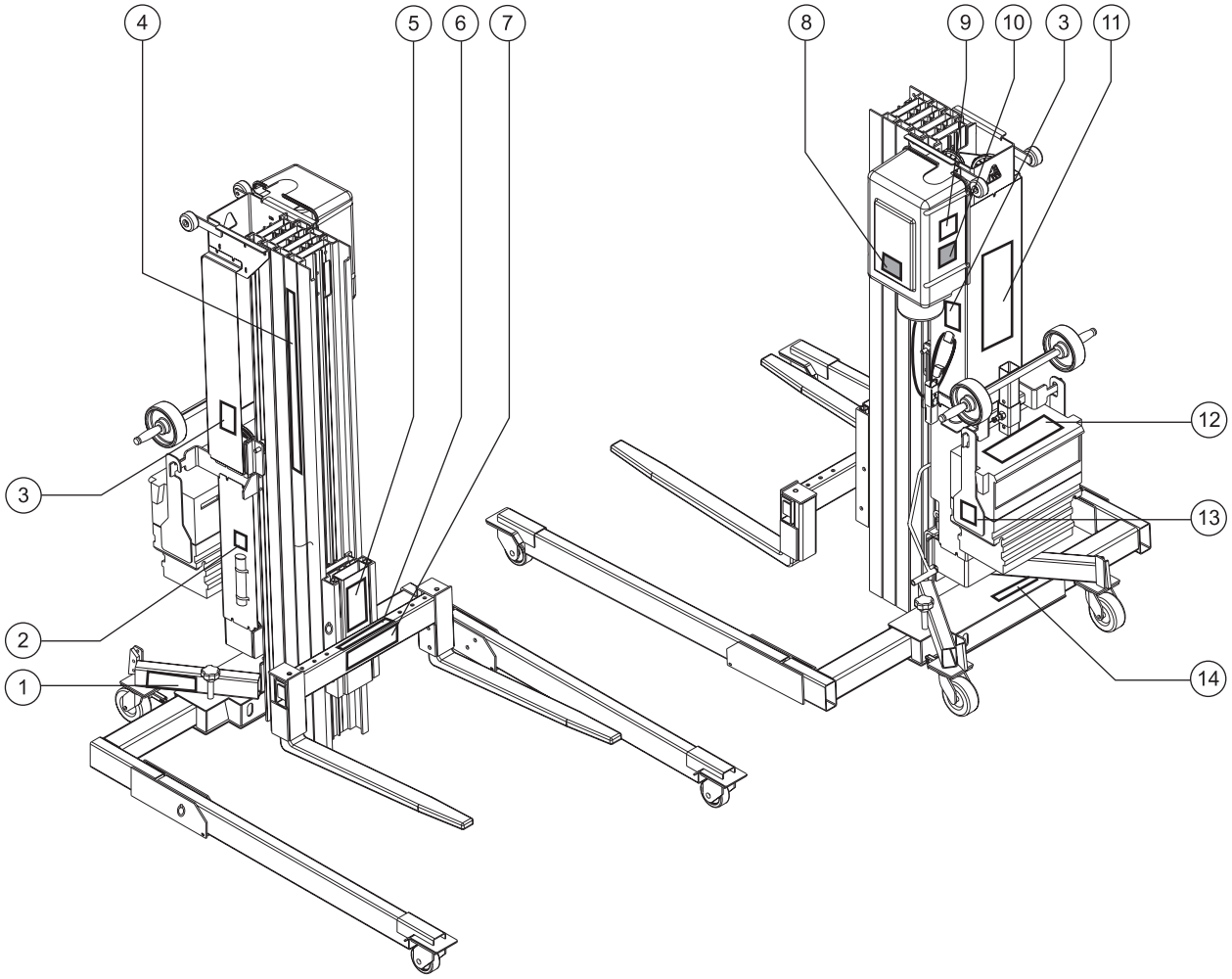
Always place the lifting hook through the lifting bracket so that it points toward the machine.



Decals

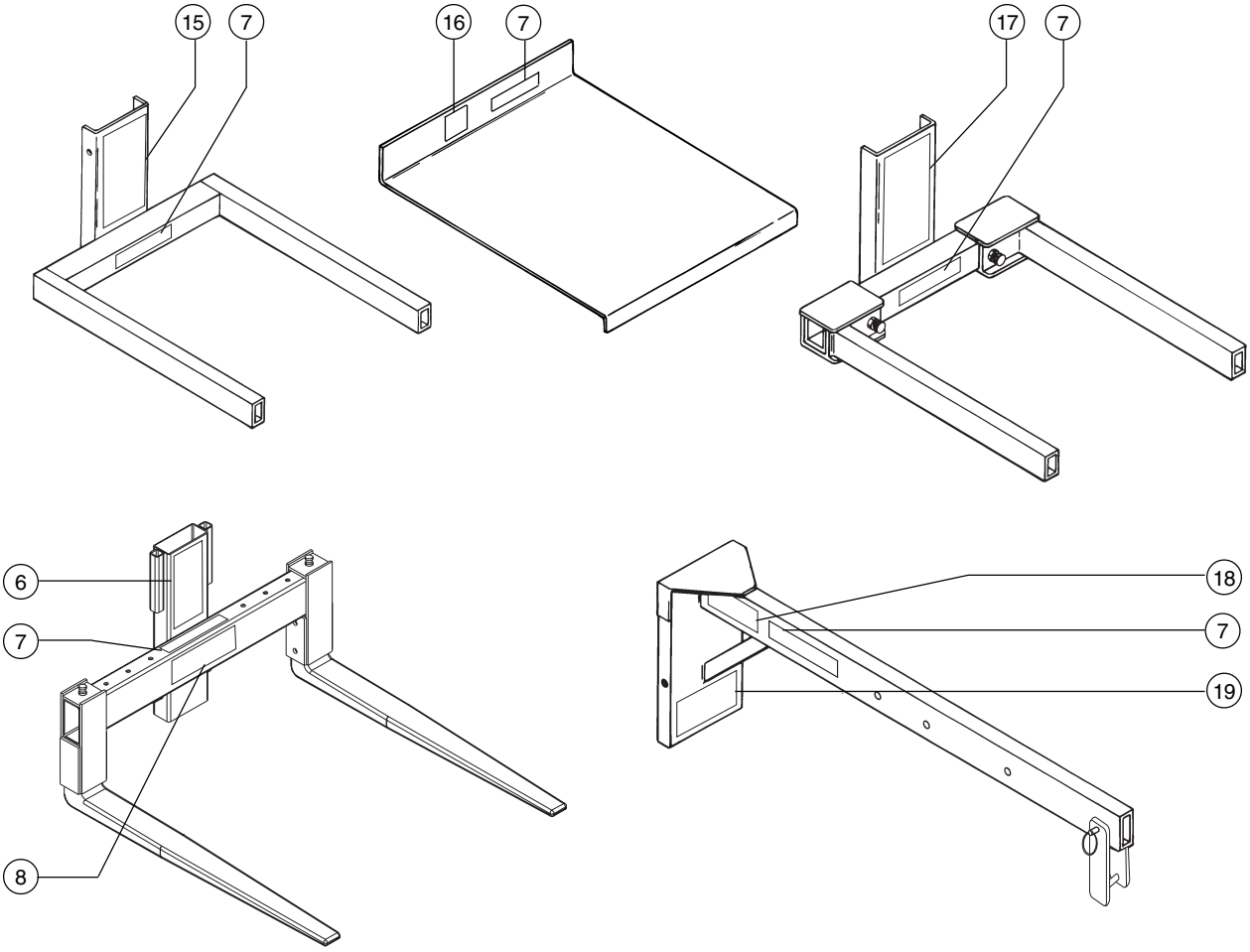
Index	Part No. Decal Description	Quantity
1	52053 Cosmetic - PSLA-20	2
2	31072 Label - Operator's Manual Storage Container	1
3	52054 Warning - Crush Hazard	2
4	52052 Powered Superlift Advantage Logo	2
5	32718 Warning - Flat Forks Safety	1
6	33468 Warning - No Riders	1 (2 on boom)
7	32715 Notice - Flat Forks Setup	1
8	28157 Label - Dexron	1
9	27857 Caution - Pipe Plug	1
10	27868 Danger, Relief Valve	1
11	52051 Warning - Machine Safety & Setup	1
12	31068 Danger - Battery Safety	1
13	28372 Caution - Quick Disconnect	1
14	37145 Label - Manual Lowering Valve	1
15	32687 Warning - Standard Forks Safety & Setup	1
16	32775 (load platform option only) Warning - Fall Hazard	1
17	32714 Warning - Adjustable Forks Safety & Setup	1
18	32716 Notice - Boom Setup	2
19	32717 Notice - Boom Safety	1

DECALS



Shading indicates that decal is hidden from view.

DECALS



Specifications

Model		PSLA-20
Height-Stowed	78 1/2 in	199 cm
Width - Outside Legs		
Minimum	31 1/2 in	80 cm
Maximum	58 in	147 cm
Width - Inside Legs		
Minimum	23 in	58 cm
Maximum	50 in	127 cm
Length-Stowed	30 1/2 in	77 cm
Length-Operating	82 1/2 in	210 cm
Ground Clearance	2 in	50.8 mm
Load Capacity		800 lbs
at 18" load center		363 kg
Note: see Load Capacity Chart on page 18 for load capacities at other load centers.		
Net Weight		
AC models	570 lbs	259 kg
DC models	640 lbs	290 kg
Airborne Noise Emissions by Machinery		85 dB
Maximum sound level at normal operating workstations (A-weighted)		

Dimensions		
Standard Forks		
forks down	19 ft 6 in	6 m
forks up	21 ft 2 1/2 in	6.5 m
Adjustable Forks		
forks down	19 ft 6 in	6 m
forks up	21 ft 2 1/2 in	6.5 m
Flat Forks	19 ft 6 in	6 m
Boom	20 ft 6 in	6.3 m
Note: measured from ground to bottom of shackle		
Load Platform	19 ft 6 in	6 m
forks up	21 ft 2 1/2 in	6.5 m
Note: can be used with standard forks and adjustable forks only		
Pipe Cradle Option		
handles round objects up to 30 in (76 cm) in diameter		
Note: can be used with standard forks and adjustable forks only (see above for working heights)		
Non-marking Fork Option		
Note: can be used with standard forks and adjustable forks only (see above for working heights)		
Fork Extension Option adds 6 1/4 to 25 inches (15 to 64 cm) of length to forks		
Note: can be used with standard forks and adjustable forks only (see above for working heights)		

Load Handling Attachments	Length	Width	Depth	Net Weight
Standard Forks	27 1/2 in 70 cm	23 1/2 in 60 cm	2 1/2 in 6.5 cm	38 lbs 17.2 kg
Adjustable Forks	27 1/2 in 70 cm	11 1/2 in to 30 in 29 cm to 76 cm	2 1/2 in 6.5 cm	52.5 lbs 23.8 kg
Flat Forks	32 in 81 cm	16 in to 31 in 41 cm to 79 cm	1 1/2 in 4 cm	73 lbs 33.1 kg
Boom	18 in to 42 in 46 cm to 107 cm	1 1/2 in 4 cm	6 1/2 in 16 cm	34.5 lbs 15.6 kg
Pipe Cradle	27 1/2 in 70 cm	24 1/2 in 63 cm	6 in 11.5 cm	10 lbs 4.5 kg
Load Platform	27 1/2 in 70 cm	23 1/2 in 60 cm	2 1/2 in 6.5 cm	26.5 lbs 12.0 kg
Fork extensions (each)	30 in 76 cm	2 in 5 cm	3 in 8 cm	4 1/2 lbs 2 kg

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