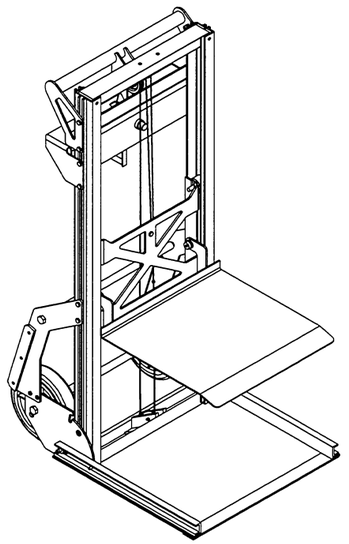
Genie Industries

Technical Publications

Genie® Load Lifter

Operator's Manual



Parts & Service Manual

First Edition, Second Printing
Part No. 35523

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Genie Load Lifter

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.

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Genie Industries

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Patents Pending

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 or sit on the load platform.

Do not climb on the machine.

Tip-over Hazards

Do not exceed the rated load capacity. Maximum capacity is 200 lbs (91 kg).

Do not raise the load unless the legs have been fully lowered and locked.

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





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

Do not tilt the machine back with a raised load.

Do not operate the machine unless the wheel/leg configuration is properly installed.

Do not use blocks to level the machine.

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

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

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 machine 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.

Collision Hazards

Do not raise if the load is not properly centered on the load platform.

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 lower the load unless the area below is clear of personnel and obstructions.

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

Lifting Hazard

Use proper lifting techniques to load or tip the machine, or move the machine on stairs.

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Notes

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.

Bodily Injury Hazards

Do not grasp the cable.

Do not allow the platform to drop during setup.

Keep hands and fingers away from folding legs, pulleys, the carriage and other potential pinch points.

Improper Use Hazard

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

Damaged Machine Hazards



Do not use a damaged or malfunctioning machine.

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

Do not use a machine with less than 4 wraps of cable on the winch drum when the carriage is fully lowered.

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

Be sure all decals are in place and legible.

Maintain proper lubrication on the winch. See Section 3, Repair Procedures for details. Do not allow oil or grease on braking surfaces.

Do not use any type of lubrication on the channel surfaces.

Crushing Hazard

Do not release grasp on the winch handle until the brake is locked. The brake is locked when the load will not cause the winch handle to turn.

SAFETY RULES

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.

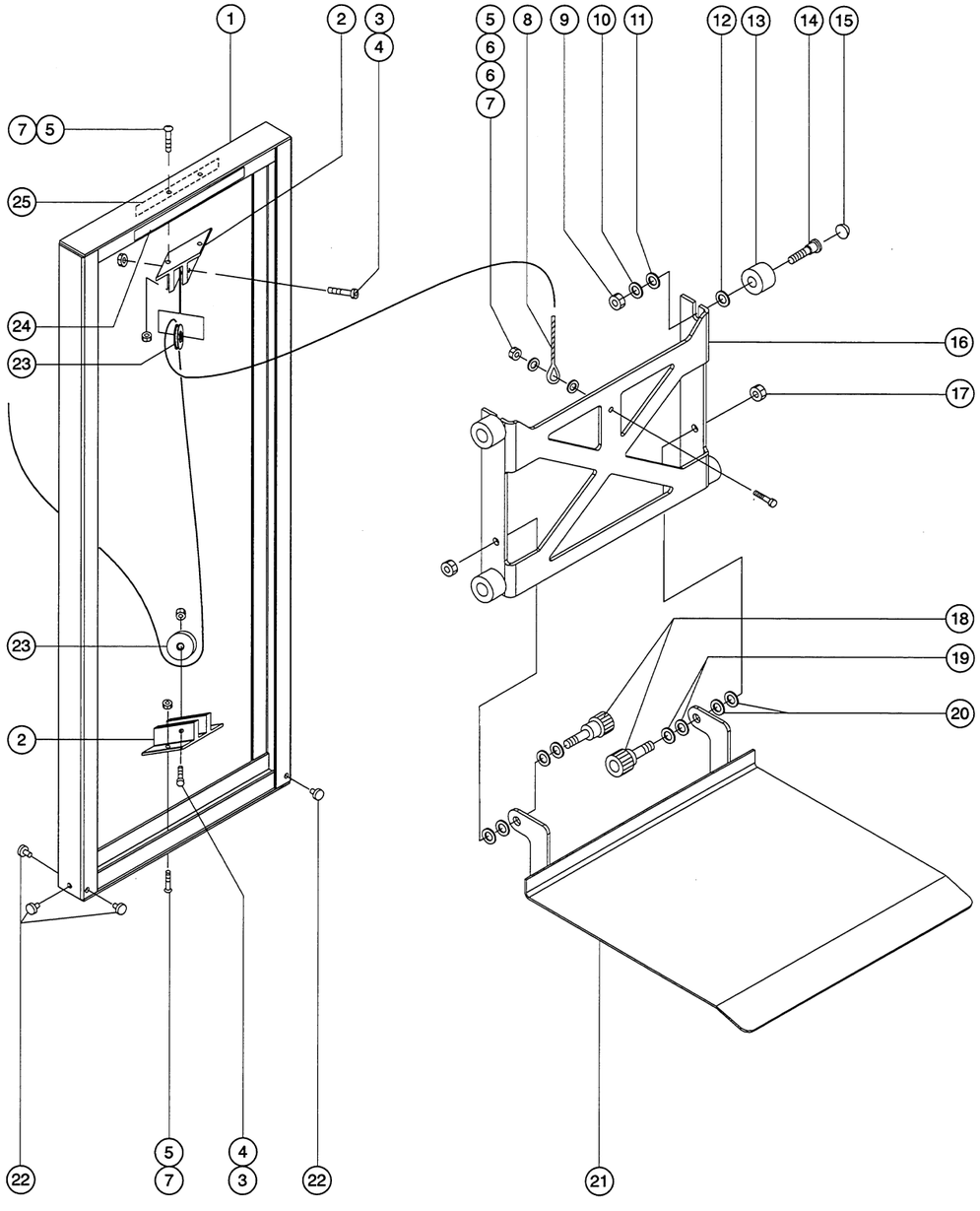
FIGURE 4-C

Index	Part No.	Description	Quantity This Figure
1	35582	Inner Frame with Decals	1
2	35200	Bracket - Pulley Mount	2
3	6584	Screw - SHS, 10-24 x 0.625 inch	2
4	5365	Nut - Nylock, 10-24	2
5	6091	Nut - Nylock, 1/4 -20	5
6	6638	Washer - Flat, 0.25 inch	2
7	14297	Screw - BHS, 1/4 -20 x 0.75 inch	5
8	35543	Cable Assembly	1
9	6054	Nut - Hex, 3/8 -24	4
10	6021	Washer - Lock, 0.375 inch	4
11	6097	Washer - Flat, 0.375 inch	4
12	12013	Washer - Shim, 0.375 x 0.625 x 0.063 inch	4*
—	7267	Washer - Shim, 0.375 x 0.625 x 0.016 inch	4*
13	11906	Roller - Nylatron, 1.62 inches (4.1 cm)	4
14	21280	Bolt - Roller, 3/8 -24 x 1.69 inches	4
15	21279	Button - Nylatron	4
16	35203	Carriage	1
17	7713	Nut - Low Profile Nylock, 3/8 -16	2
18	11335	Screw - SHS, 3/8 -16 x 0.5 inch	2
19	11978	Washer - Flat, Nylon, 0.515 x 0.88 x 0.093 inch	4
20	6052	Washer - Shim, 0.5 x 0.875 x 0.063 inch	4
21	35185	Weldment - Platform	1
22	11890	Button - Glide	6
23	11224	Pulley with Bearing	2
24	35545	Decal - Genie Load Lifter	1
25	35567	Decal - Warning Bodily Injury Hazard	1

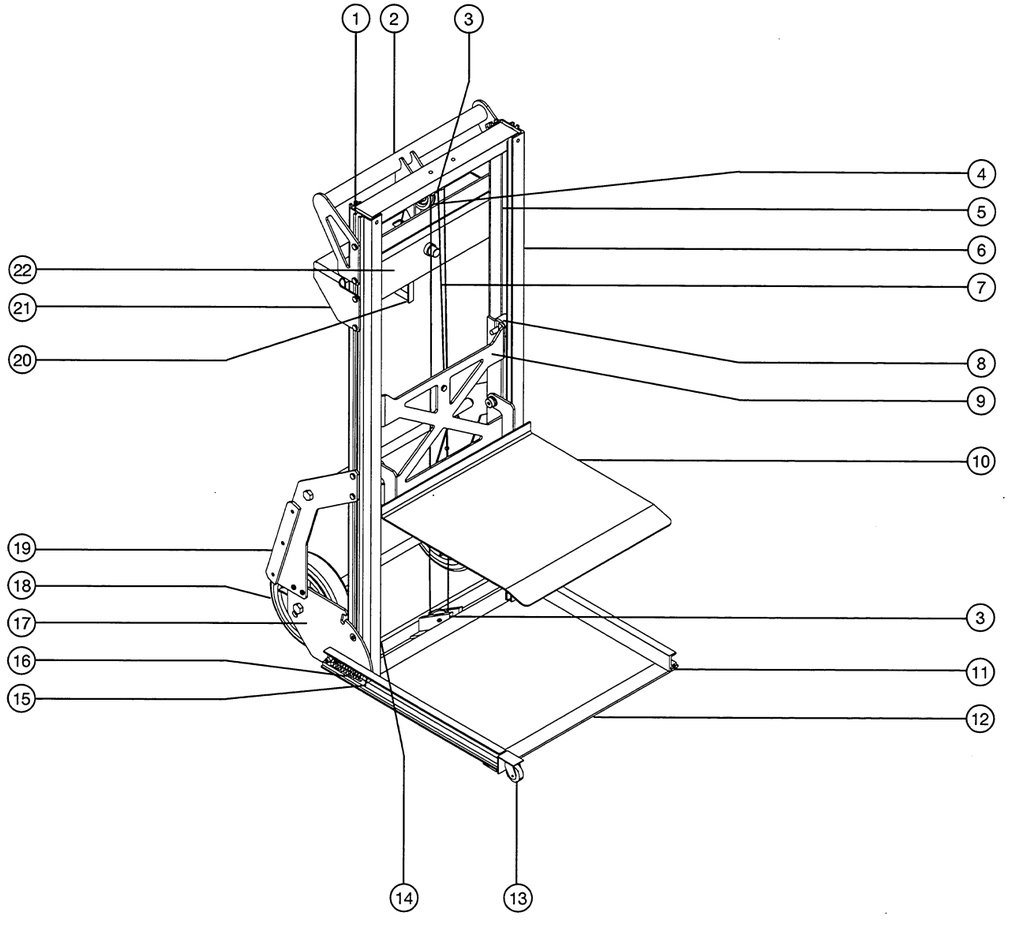
* Quantity listed for this item is approximate. Actual quantity may vary to ensure proper fit.

Figure 4-C

Load Platform and Inner Frame Assembly



Legend



1 Outer frame glide button
2 Handle
3 Inner frame pulley
4 Outer frame pulley
5 Inner frame
6 Outer frame
7 Cable
8 Roller wheel
9 Carriage
10 Load platform
11 Foot pad
12 Folding leg
13 Front leg caster (option)
14 Inner frame glide button
15 Leg lock bolt
16 Leg spring
17 Base plate
18 Rear wheel
19 Stair glide (option)
20 Winch handle
21 Winch (under plate)
22 Winch mounting plate

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

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 that the operator's manual is complete, legible and available for reference.

❑ Be sure that all decals are legible and in place (see *Decals*, page 1-11).

❑ Check the following components or areas for damage and improperly installed, loose or missing parts:

- Winch and related components
- Base components
- Leg
- Glide buttons and roller wheels
- Inner and outer frames
- Cable anchor
- Cables and pulleys
- Wheels
- Casters (if equipped)
- Load platform
- 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

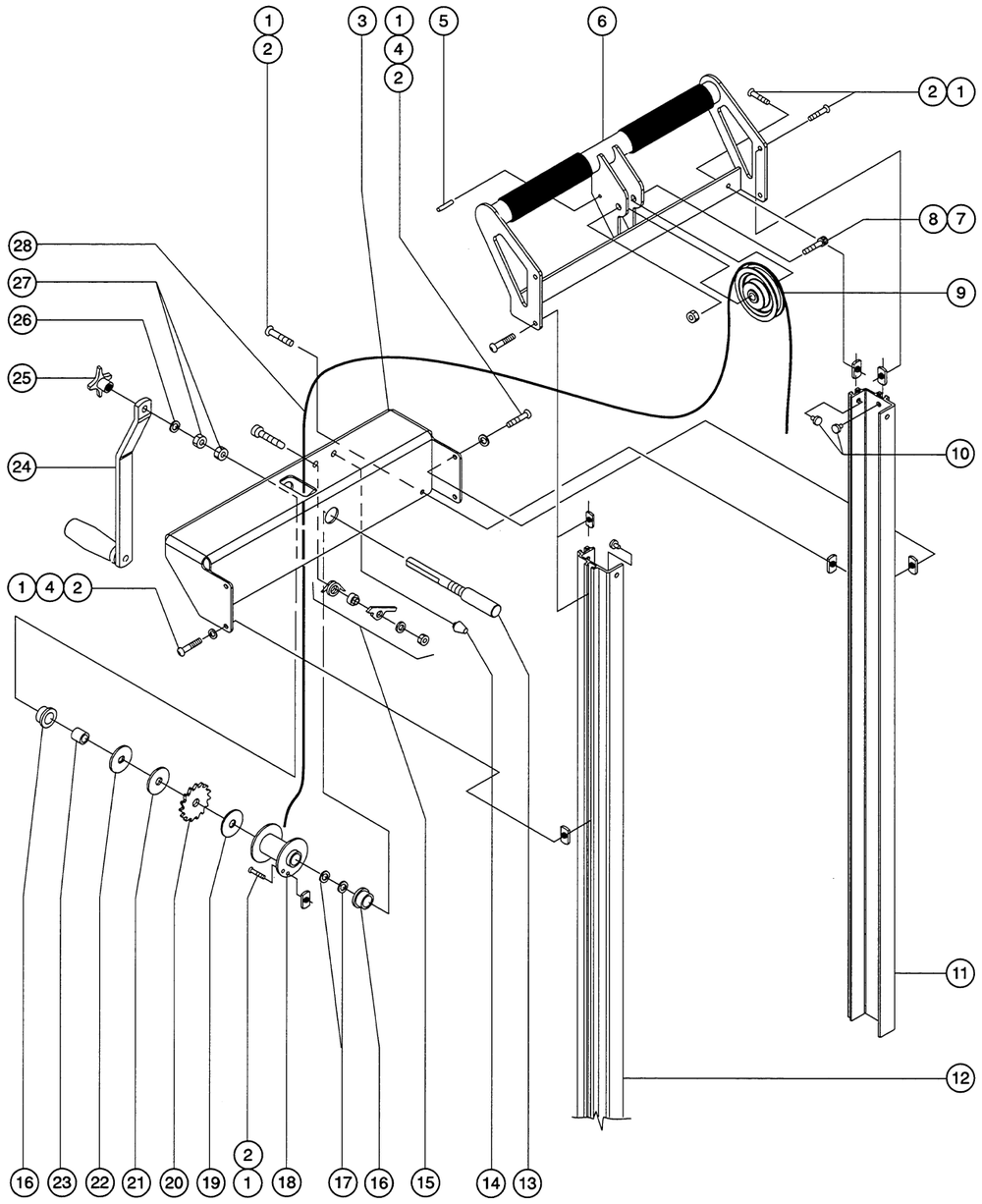
❑ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.

❑ Be sure that there is a minimum of 4 wraps of cable around the winch drum, when the carriage is fully lowered.

FIGURE 4-B

Index	Part No.	Description	Quantity This Figure
20	35625	Ratchet Gear	1
21	35630	Brake Disk, UHMW	1
22	35626	Pinion Plate	1
23	35922	Spacer - Pinion Shaft	1
24	16342	Handle - Winch	1
25	35997	Knob - Winch Handle	1
26	22692	Washer - Wave	1
27	6034	Nut - Hex Jam, 1/2 -13	2
28	35543	Cable Assembly	1

FIGURE 4-B



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 Tilt the machine back.

2 Lift the folding legs up to unlock them.

3 Lower the folding legs and push in to lock them.

4 Lower the platform. Do not drop it.

5 Remove the knob on the winch handle, reverse the winch handle and replace the knob. The handle grip should face the operator.

Test the Spring Tension of the Legs

1 Pull the legs out and release grasp.

⊙ Result: The legs should snap back into locked position.

Test the Winch Operation

1 Rotate the winch handle **clockwise** to raise the platform.

⊙ Result: The carriage should raise to the top of the inner frame and then the inner frame should raise. The carriage and inner frame should move smoothly, free of hesitation and binding.

2 Rotate the winch handle **counterclockwise** to lower the platform.

⊙ Result: The inner frame and the carriage should lower into the outer frame. The carriage and inner frame should move smoothly, free of hesitation and binding.

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.

FIGURE 4-B

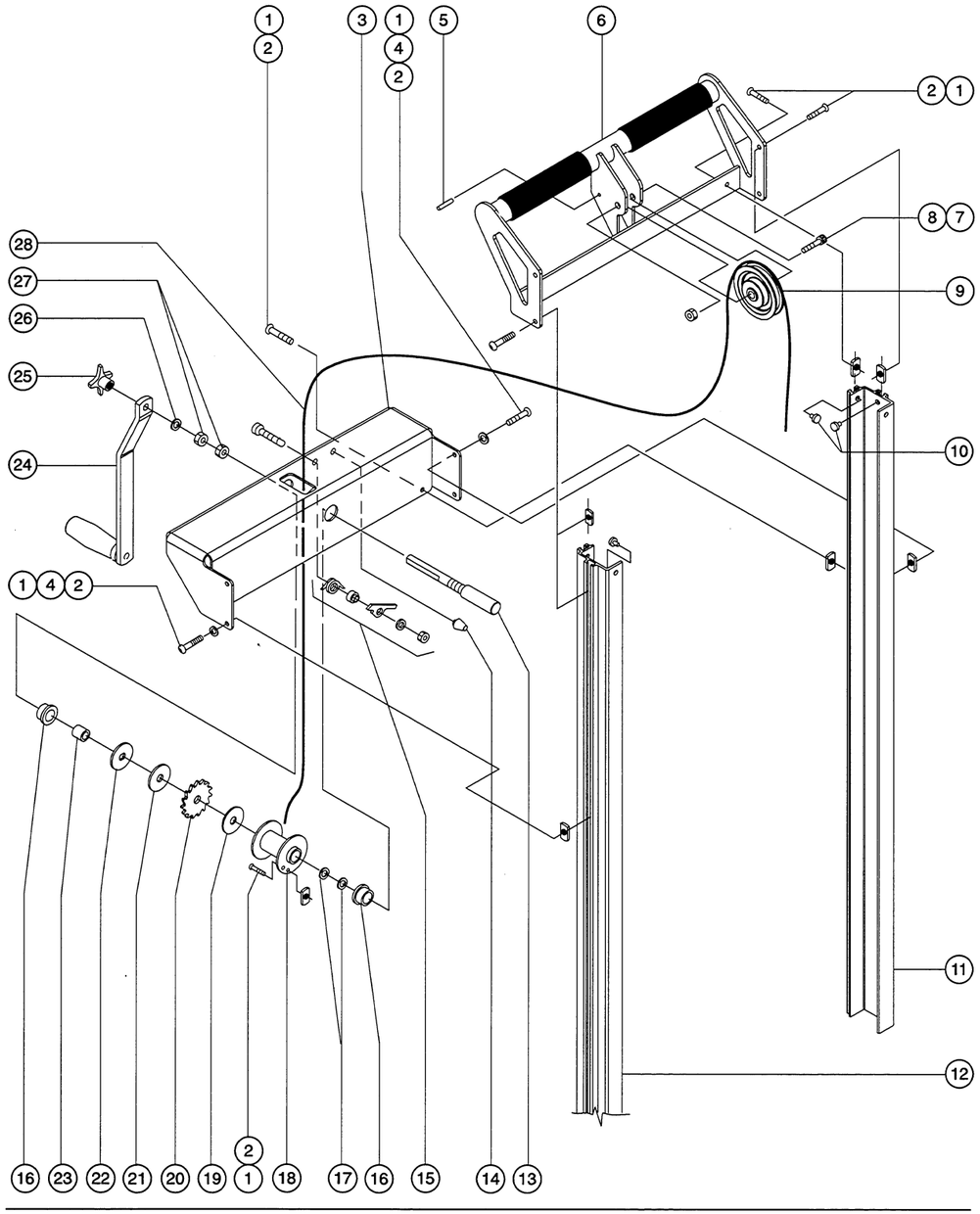
Index	Part No.	Description	Quantity This Figure
1	12011	Screw - BHS, 1/4 -20 x 0.5 inch	12
2	35991	Nut - Weld, 1/4 -20	12
3	35556	Bracket - Winch Mounting with Decals	1
—	35546	Decal - Warning Machine Safety	—
—	33468	Decal - Warning No Riders	—
—	35555	Decal - Notice Maximum Capacity	—
—	35547	Decal - Notice Machine Setup	—
4	6356	Washer - Lock, 0.25 inch	6
5	22547	Roll Pin, 3/16 x 1.25 inches	1
6	35537	Handle Assembly	1
—	35580	Grip - Rubber with Tape	—
—	35581	Tape - Double Backed, 2 x 900 inches (5 x 2286 cm) Roll	—
7	5224	Screw - HHC, 3/8 -16 x 2 inches, GR 5	1
8	4828	Nut - Nylock, 3/8 -16	2
9	35914	Pulley - Outer Frame, 2.75 x 0.375 inch (7 x 0.95 cm)	1
10	11890	Button - Glide	6
11	35195	Outer Frame Channel - Left Side	1
12	35194	Outer Frame Channel - Right Side	1
13	35623	Shaft - Pinion, Direct Drive	1
14	29849	Damper - Rubber	1
15	35557	Ratchet Kit (includes index number 14)	1
—	4828	Nut - Nylock, 3/8 -16	1
—	5397	Washer - Flat, 5/16 inch	1
—	35634	Ratchet Pawl	1
—	35918	Spacer - Ratchet	1
—	35989	Spring - Ratchet Pawl	1
—	8516	Screw - HHC, 3/8 -16 x 1.5 inches, GR 5	1
16	35920	Bushing - Bronze, 0.75 x 1 x 0.62 inch	2
17	6563	Washer - Shim, 0.75 x 1.125 x 0.030 inch	2*
18	35650	Winch Drum	1
19	35629	Brake Disk	1

* Quantity listed for this item is approximate. Actual quantity may vary to ensure proper fit.

This parts list continues. Please turn the page.

Figure 4-B

Outer Frame and Attached Parts



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 1-7.

Raising and Lowering Load

1 Center the load on the load platform.

2 Raise the load by firmly grasping the winch handle and rotating it clockwise. Do not allow the cable to wind unevenly onto the drum.

3 Lower the load by firmly grasping the winch handle and rotating it counterclockwise. After lowering to desired position, turn the winch handle clockwise (raise the load) 1/4 turn to set the brake.

OPERATING INSTRUCTIONS

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 platform
- Avoid sudden starts and stops
- Travel with load in the lowest possible position
- Keep personnel away from machine and load
- Do not tilt the machine back with a raised load.

Moving Machine on Stairs

Fully lower the load.

Ease the machine over each stair. Maintain a firm grasp on the handle.

Do not allow the machine to become unbalanced.

Continue carefully up or down the stairs.

Use the appropriate number of people and proper lifting techniques with heavy loads.

After Each Use

To prepare machine for storage, follow setup procedure in reverse order. The platform must be fully lowered to store legs.

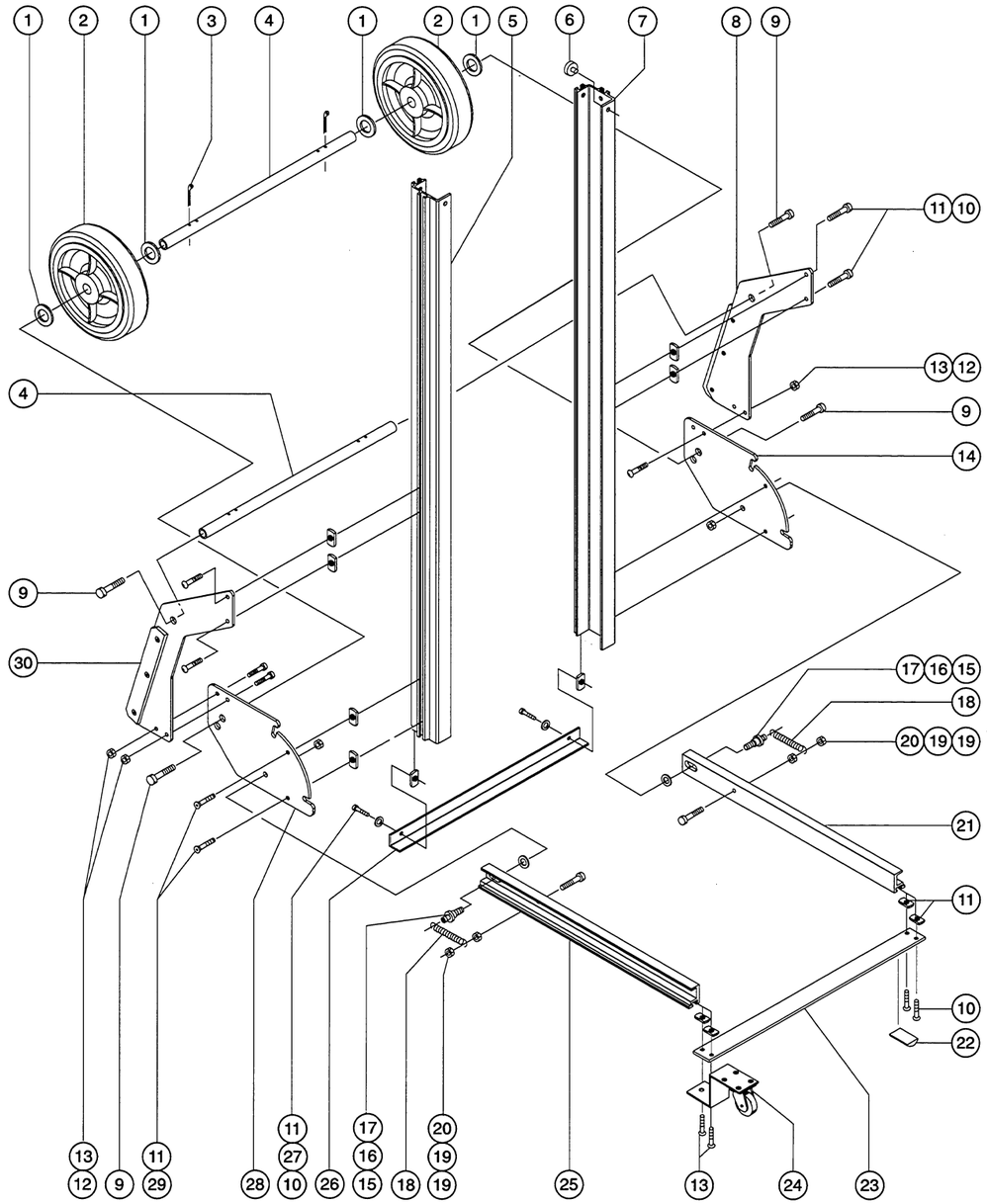
Select a safe storage location - firm level surface, weather protected, clear of obstruction and traffic.

FIGURE 4-A

Index	Part No.	Description	Quantity This Figure
24	35571	Swivel Caster and Mounting Bracket Assembly (Front Caster Option)	2*
—	35553	Caster - Swivel Plate, 2 x 0.75 inch	—
—	35550P	Bracket - Swivel Caster Mount	—
25	35645	Leg - Right Side	1
26	35190	Inner Frame Stop Angle	1
27	6356	Washer - Lock, 0.25 inch	2
28	35559	Base Plate with Decal - Right Side	1
—	35552	Decal - Warning Tip-over Hazard	—
29	23903	Screw - FHS, 1/4 -20 x 0.5 inches	4
30	35570	Stair Glide Assembly - Right Side (Stair Glide Option)	1*

* Quantity listed may not reflect specific model configuration requirements.

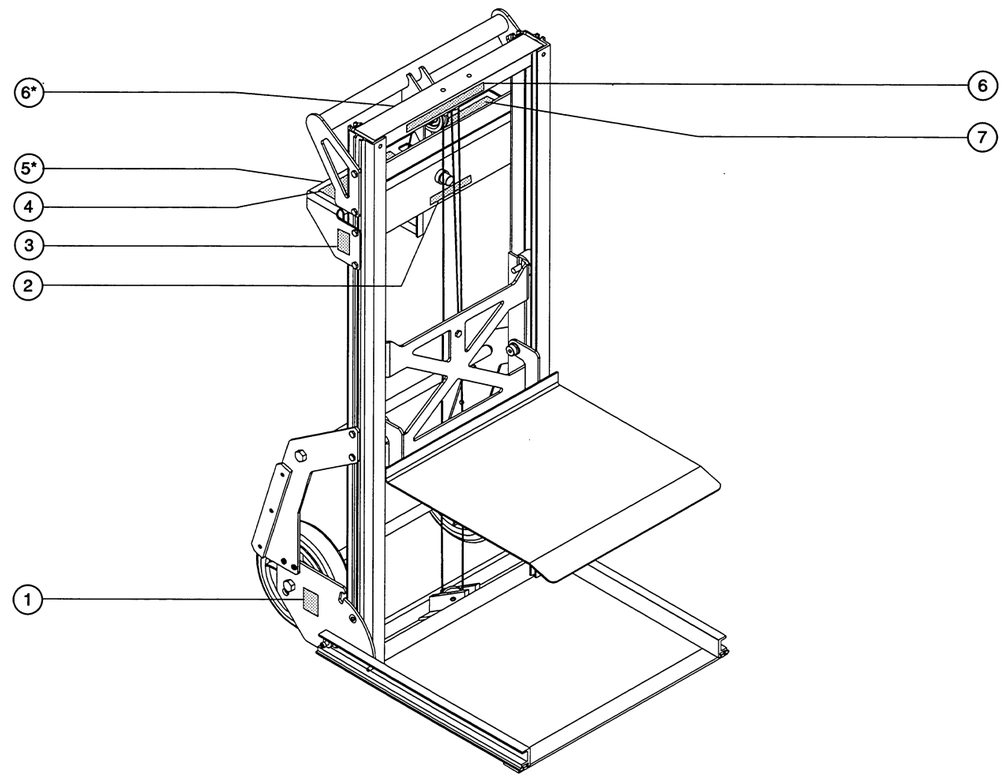
FIGURE 4-A



Decals

Index	Part No. Decal Description	Quantity
1	35552 Warning - Tip-over	2
2	33468 Warning - No riders	1
3	35548 Serial Plate, Load Lifter	1
4	35547 Notice - Machine Setup	1
5	35555 Maximum Capacity 200 lbs (91 kg)	1
6	35567 Warning - Bodily Injury Hazard	1
7	35545 Genie Load Lifter	1
8	35546 Warning - Machine Safety	1

* Decal located on opposite side of machine



Specifications

Height, maximum platform	5 ft 7 in	1.70 m
Lift capacity	200 lbs	91 kg
Machine weight	44 1/2 lbs	20 kg
Height, stowed	45 in	114 cm
Width	20 1/2 in	52 cm

Length - Stowed	15 in	38 cm
Length - Operating	28 3/4 in	73 cm
Load Platform		
Length	16 1/4 in	41 cm
Width	16 3/4 in	43 cm
Load Height	2 in	5 cm

Component Mounting Locations

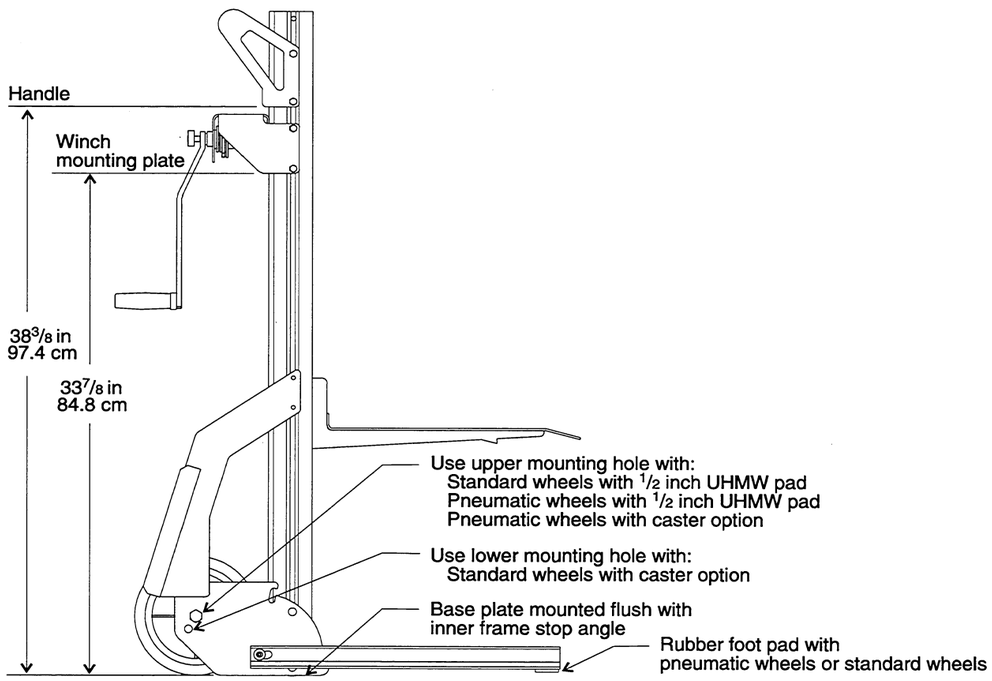


FIGURE 4-A

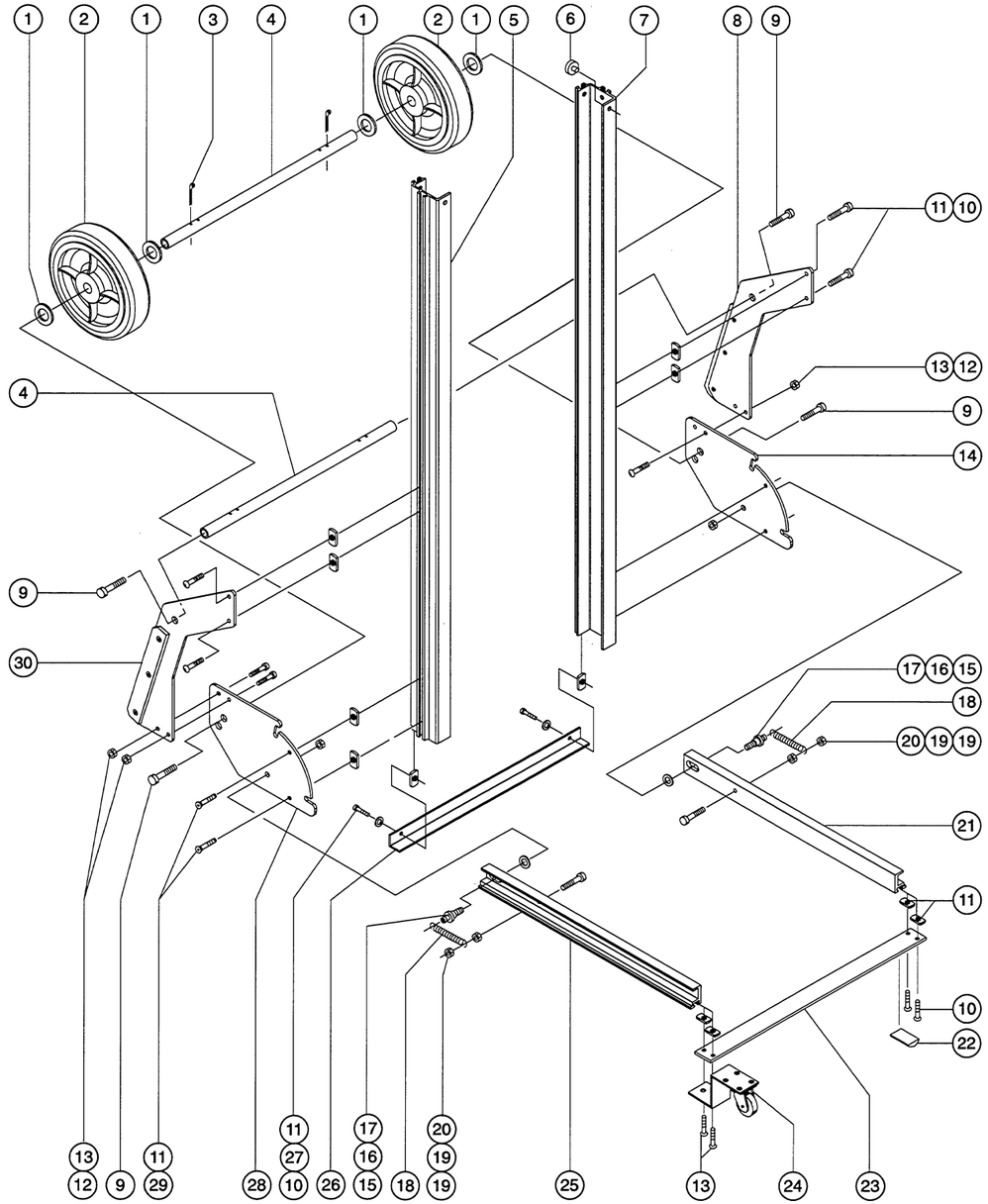
Index	Part No.	Description	Quantity This Figure
1	6563	Washer - Shim, 0.75 x 1.125 x 0.030 inch (models with solid rubber wheels)	4
—	6564	Washer - Shim, 0.75 x 1.125 x 0.093 inch (models with pneumatic wheels)	4
2	32453	Wheel - Solid Rubber, 8 x 2 inches (20.3 x 5.1 cm)	2
—	35909	Wheel - Pneumatic, 8 x 2.5 inches (20.3 x 6.3 cm)	2
3	5361	Pin - Cotter, 0.125 x 1.5 inches	2
4	35189	Tube - Axle / Stair Glide Support	2*
5	35194	Outer Frame Channel - Right Side	1
6	11890	Button - Glide	6
7	35195	Outer Frame Channel - Left Side	1
8	35569	Stair Glide Assembly - Left Side (Stair Glide Option)	1*
9	10587	Screw - HHC, 1/2 -13 x 0.75 inch, GR 5	4*
10	12011	Screw - BHS, 1/4 -20 x 0.5 inch	12*
11	35991	Nut - Weld, 1/4 -20	12*
12	6091	Nut - Nylock, 1/4 -20	4*
13	14297	Screw - BHS, 1/4 -20 x 0.75 inch	8*
14	35558	Base Plate with Decal - Left Side	1
—	35552	Decal - Warning Tip-over Hazard	—
15	35649	Bolt - Leg Pivot	2
16	6052	Washer - Shim, 0.5 x 0.875 x 0.063 inch	2
17	4828	Nut - Nylock, 3/8 -16	2
18	35994	Spring - Leg Lock	2
19	6889	Nut - Low Profile Nylock, 1/4 -20	4
20	22283	Screw - SHC, 1/4 -20 x 0.75 inch	2
21	35646	Leg - Left Side	1
22	37258	Foot Pad - Rubber	2
23	35648	Leg Stiffener	1

* Quantity listed may not reflect specific model configuration requirements.

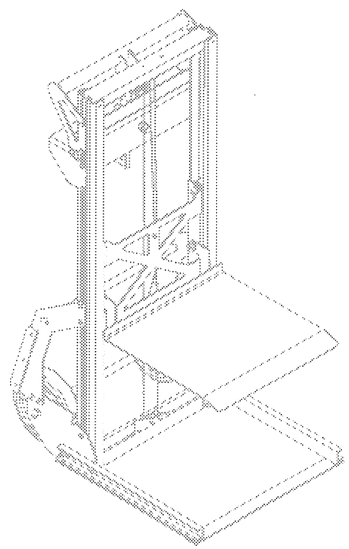
This parts list continues. Please turn the page.

Figure 4-A

Folding Legs and Rear Wheels



Parts & Service Manual



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Genie Industries — Service Parts Order Form

Please fill out completely

Date _____ Account Number _____

Your Name _____ **Your Fax Number** _____

_____ Your Phone Number _____

Bill To _____ Ship To _____

_____ _____

_____ _____

_____ _____

Purchase Order Number _____ Ship Via _____

Model _____ **Serial No.** _____

Part Number	Description	Quantity	Price

For Internal Use Only

Order Number _____ Origin Code _____ Comments _____

Date Scheduled _____ Ship Condition _____ _____

Order Total _____ Terms Code _____ _____

How To Order Parts

How To Order Service Parts

Please be prepared with the following information when ordering replacement parts for your Genie product:

- Machine model number
- Machine serial number
- Genie part number
- Part description and quantity
- Purchase order number
- "Ship to" address
- Desired method of shipment
- Name and telephone number of the authorized Genie Distributor in your area

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, call Genie.

Genie North America
Telephone (206) 881-1800
Toll Free 800 536-1800 in U.S.A.
Toll Free 800 426-8089 in Canada
Fax (206) 883-3475

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

Machine Information

_____
Model

_____
Serial Number

_____
Date of Purchase

_____
Authorized Genie Distributor

_____
Phone Number

Safety Rules



Warning

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

Many of the hazards identified in section 1, operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

☑ You are trained and qualified to perform maintenance on this machine.

☑ You read, understand and obey:
- manufacturer's instructions and safety rules
- employer's safety rules and worksite regulations
- applicable governmental regulations

☑ You have the appropriate tools and a suitable workshop.

SAFETY RULES

Personal Safety

Any person working on or around a machine must be aware of all known safety hazards. Personal safety and the continued safe operation of the machine should be your top priority.

Read each procedure thoroughly. This manual and the decals on the machine use signal words to identify the following:

⚠DANGER Indicates the presence of a hazard that **will** cause death or serious injury.

⚠WARNING Indicates the presence of a hazard that **may** cause death or serious injury.

⚠CAUTION Indicates the presence of a hazard that **will** or **may** cause serious injury or damage to the machine.

NOTICE Indicates special operation or maintenance information.

Be sure to wear protective eye wear and other protective clothing if the situation warrants it.

Be aware of potential crushing hazards such as moving parts, free swinging or unsecured components, and lifting or placing loads. Always wear approved steel-toed shoes.

Workplace Safety

Be sure to keep sparks, flames and lighted tobacco away from flammable and combustible materials like battery gases, cleaning solvents and engine fuels. Always have an approved fire extinguisher within easy reach.

Be sure that all tools and working areas are properly maintained and ready for use. Keep work surfaces clean and free of debris that could get into machine components and cause damage.

Be sure that your workshop or work area is properly ventilated and well lit.

Be sure any forklift, overhead crane or other lifting or supporting device is fully capable of supporting and stabilizing the weight to be lifted. Use only chains or straps that are in good condition and of ample capacity.

Be sure that fasteners intended for one time use (i.e., cotter pins and self-locking nuts) are not reused. These components may fail if they are used a second time.

Be sure to properly dispose of old oil or other fluids. Use an approved container. Please be environmentally safe.

Recommended Parts Stocking List

How To Use This List

The service parts listed below have been divided into four priority groups: A, B, C and D. Use the group code and quantities listed to plan enough inventory to support your fleet. The quantities shown are recommended for 1 to 5 machines. Some of these service parts are common to other Genie products.

Group A parts are required to perform maintenance procedures as outlined in *Section 2.*

Group B parts solve 75% of machine troubleshooting issues.

Group C parts that affect the safe operation of the machine.

Group D parts do not affect the safe operation of the machine.

Group A and B

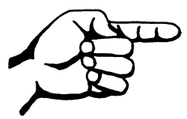
Part No.	Description	Qty.
11890	Button - Glide	25
35914	Pulley - Outer Frame, 2.75 x 0.375 inch	2
21279	Button - Nylatron	8
11906	Roller - Nylatron, 1.62 inches (4.1 cm)	8
21280	Bolt - Roller, 3/8 -24 x 1.69 inches	8
11224	Pulley with Bushing	4
35994	Spring - Leg Lock	4

Group C

Part No.	Description	Qty.
35634	Ratchet Pawl	3
35989	Spring - Ratchet Pawl	3
35629	Brake Disk	3
35625	Ratchet Gear	3
35630	Brake Disk, UHMW	3
35543	Cable Assembly	3

Group D

Part No.	Description	Qty.
12011	Screw - BHS, 1/4 -20 x 0.5 inch	12
14297	Screw - BHS, 1/4 -20 x 0.75 inch	12
21832	Nut - Weld, 1/4 -20	12



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Scheduled Maintenance Procedures



Observe and Obey:

- ☑ Maintenance and repair procedures shall be completed by a person trained and qualified on the maintenance and repair of this machine.
- ☑ Scheduled maintenance procedures shall be completed daily, quarterly (every 3 months) and annually.

⚠WARNING Failure to properly complete each inspection when required may result in death, serious injury or substantial machine damage.

- ☑ Read, understand and obey the safety rules and operating instructions in Section 1, Operator's Manual.
- ☑ Be sure that all necessary tools and parts are available and ready for use.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating machine.
- ☑ Unless otherwise specified, perform each procedure with the machine in the following configuration:
  - machine positioned on a flat level surface
  - carriage fully lowered
  - legs down and locked
  - load platform down

About The Maintenance Section

This section contains detailed procedures for each scheduled maintenance inspection.

Schedule

There are three types of maintenance inspections that must be performed according to a schedule—daily, quarterly and annually. Use the following chart to determine which group(s) of procedures are required to perform a scheduled inspection.

Inspection	Table or Checklist
Daily	A
Quarterly (every 150 hours or three months)	A + B
Annual	A + B + C

Each procedure includes a description, safety warnings and step-by-step instructions.

Symbols Legend

⊙ Indicates that a specific result is expected after performing a series of steps.

About The Repair Section

Most of the procedures in this section should only be performed by a trained service professional in a suitably equipped workshop. Select the appropriate repair procedure after troubleshooting the problem.

Perform disassembly procedures to the point where repairs can be completed. Then to re-assemble, perform the disassembly steps in reverse order.

Table A Procedures

A-1
Inspect the Operator's Manual

Maintaining the operator's manual in good condition is essential to safe machine operation. The operator's manual is included with each machine. An illegible or missing manual will not provide safety and operational information necessary for a safe operating condition.

1 Check to make sure the operator's manual is available for reference.

2 Examine the pages of the manual to be sure that they are legible and in good condition.

3 Always return the manual to a safe location.

NOTICE Contact your authorized Genie distributor or Genie Industries if a replacement manual is needed.

A-2
Inspect the Decals and Placards

Maintaining all of the safety and instructional decals and placards in good condition is essential for safe machine operation. Decals alert operators and personnel to the many possible hazards associated with using this machine. They also provide users with operation and maintenance information. An illegible decal will fail to alert personnel of a procedure or hazard and could result in unsafe operating conditions.

1 Refer to the decals section in this manual and use the decal list and illustration to determine that all decals and placards are in place.

2 Inspect all decals for legibility and damage. Replace any damaged or illegible decal immediately.

NOTICE Contact your authorized Genie distributor or Genie Industries if replacement decals are needed.

A-3
Inspect for Damage, Loose or Missing Parts

Daily machine condition inspections are essential to safe machine operation and good machine performance. Failure to locate and repair damage, and discover loose or missing parts may result in an unsafe operating condition.

1 Inspect the entire machine for damage and improperly installed or missing parts including:

NOTICE Refer to the Legend on page 1-5 for component locations.

- cable anchor
- cable and pulleys
- inner and outer frames
- glide buttons and roller wheels
- nuts, bolts and other fasteners
- load platform
- winch and related components
- legs
- wheels
- casters (if equipped)
- dents or damage to machine
- cracks in welds or structural components
- corrosion to painted surfaces (if equipped)
- corrosion or oxidation to all other surfaces

A-4
Check the Winch Operation

Detection of damage to the winch is essential to safe machine operation. An unsafe working condition exists if the winch is damaged or not operating correctly. A daily check of the winch operation allows the inspector to identify changes in the operating condition of the winch that might indicate damage.

REPAIR PROCEDURES

6 Wrap the cable around the new pulley and re-install the pulley into the pulley bracket.

NOTICE Be sure not to compress the pulley mounting bracket when installing the new pulley.

7 Install the pulley bracket into the inner frame.

NOTICE Be sure not to twist the cable when installing the new pulley and pulley bracket.

1-4
How to Replace the Lifting Cable

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

1 Fully lower the carriage.

2 Remove the cable retaining fastener from the winch drum. Then unwind the cable from the winch drum.

3 Remove the cable mounting fastener from the carriage. Pull all the cable out of the machine.

4 Attach the new cable to the carriage.

5 Facing the platform side of the machine, thread the cable through the top inner frame pulley, from front to back. Pull all the cable through the pulley.

6 Thread the cable through the bottom inner frame pulley, from front to back. Pull all the cable through the pulley.

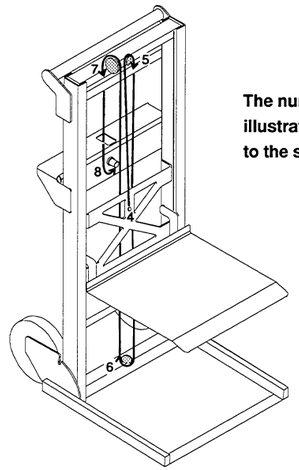
7 Thread the cable through the handle pulley, from front to back. Pull all the cable through the pulley.

8 Facing the winch side of the machine, thread the cable through the winch mounting plate. Pull all the cable through the plate.

9 Wrap the cable clockwise around the winch drum. Attach the cable to the drum.

10 While holding the cable tight on the drum, rotate the winch until all the cable is spooled onto the drum. Be sure there are at least 4 wraps of cable on the winch drum.

Cable Routing

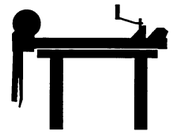


The numbers on the illustration correspond to the steps in procedure 1-4.

Platform is raised for illustrative purposes only.

1-5
How to Replace a Glide Button

1 Using proper lifting techniques, lay the machine over onto a table or other suitable work station.



2 Remove the inner frame stop angle mounting fasteners. Then remove the inner frame stop angle.

3 Slide the inner frame out the bottom of the outer frame approximately 6 inches (15.2 cm).

4 Use a soft metal drift to remove the glide button.

5 Press the new glide button into place until they are fully seated.

6 Slide the inner frame into the outer frame and install the inner frame stop angle.

REPAIR PROCEDURES

1-2
How to Disassemble the Winch

1 Fully lower the carriage.

2 Remove the cable retaining fastener from the winch drum. Then unwind the cable from the winch drum.

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

3 Remove the winch handle from the winch.

4 Remove the two jam nuts from the pinion shaft.

5 From the platform side of the machine, rotate the pinion shaft counterclockwise until the shaft is removed. Be sure to hold the winch components in place while removing the pinion shaft.

6 Remove the pinion shaft bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with a rubber mallet.

NOTICE Note the quantity and location of the shims between the winch drum and the bushing before disassembling.

How to Assemble the Winch

1 Clean and inspect the winch components before installing.

NOTICE Use the illustration on page 4 - 8 for a reference.

2 Install the pinion shaft bushings. Use a soft metal drift equal to the outside diameter of the bushing and tap with a rubber mallet until fully seated.

3 Apply a small amount of lithium grease (Genie part number 90375) to the large threaded section of the pinion shaft.

4 Insert the pinion shaft through the winch drum.

5 Install the UHMW brake disk, ratchet gear, brake disk, pinion plate and pinion shaft spacer in respective order onto the pinion shaft.

⚠CAUTION Be sure the pinion shaft is threaded all the way into the winch drum before tightening the two jam nuts.

⚠CAUTION Do not allow grease or oil onto the brake disks or the ratchet gear.

6 Install the two jam nuts and the handle onto the winch shaft.

7 Route the cable around the winch and install the cable retaining fastener.

1-3
How to Replace a Pulley

1 Fully lower the carriage.

2 Unwind the cable from the winch drum. Do not remove the cable.

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

Outer Frame Pulley:

3 Remove the pulley mounting fastener. Then remove the pulley.

4 Wrap the cable around the new pulley and re-install the pulley into the handle.

NOTICE Be sure not to twist the cable when installing the new pulley.

Inner Frame Pulleys:

3 Remove the pulley bracket mounting fasteners.

4 Remove the pulley mounting fastener from the pulley bracket. Then remove the pulley.

5 Apply a small amount of lithium grease (Genie part number 90375) to the pulley bushing and pulley sides.

TABLE A PROCEDURES

1 Visually inspect all winch components for damage.

2 Raise the load platform through a partial cycle and release the winch handle.

⊙ Result: The winch should operate smoothly, free of hesitation or binding. The load platform should not lower when the handle is released.

3 Fully lower the load platform.

⊙ Result: The winch should operate smoothly, free of hesitation or binding.

A-5
Inspect the Channels for Damage

Detection of damage to the inner and outer frame channels is essential for safe machine operation. An unsafe working condition exists if the channels are damaged and do not operate smoothly, free of hesitation and binding. A daily check of the channels allows the inspector to identify changes in the operating condition of the unit that might indicate damage.

1 Visually inspect each channel for the following:
- dents, gouges or abrasions
- bends or warping
- excessive wear

2 Raise and lower the load platform through a complete cycle.

⊙ Result: The carriage and inner frame should raise and lower smoothly, free of hesitation and binding.

A-6
Inspect the Cable and Cable Pulleys

Detection of damage to the cable or pulleys is essential for safe machine operation. An unsafe working condition exists if these components are damaged and do not operate smoothly. A daily check of this system allows the inspector to identify changes in the operating condition that might indicate damage.

1 Visually inspect the cable and components for the following:
- damaged cable coating
- frayed or broken wire strands
- kinks in the cable
- corrosion
- paint or foreign materials
- split or cracked swagged end
- cable is properly secured to the winch
- cable is properly secured to the carriage
- cable is on the pulleys
- upper and lower mounting brackets are properly secured
- no broken or damaged pulleys
- no unusual or excessive pulley wear

A-7
Inspect the Casters and Wheels

Extremely dirty conditions may require that the wheels and casters be inspected more often. The front casters are optional equipment.

1 Visually inspect each caster and wheel for cuts, cracks or unusual wear.

2 Move the machine on a flat smooth surface and check that the casters and wheels roll smoothly, free of hesitation and binding.

3 **Pneumatic Wheel Option:** Check the tire pressure with an air pressure gauge and add air as needed .

⊙ Tire pressure should be 50 psi (3.4 bar).

Table B and C Procedures

B-1
Inspect All Welds

Weld inspections are essential to safe machine operation and good machine performance. Failure to locate and repair damage may result in an unsafe operating condition.

1 Visually inspect the welds in the following locations:

- handle
- inner frame
- load platform

B-2
Clean the Channels

Clean inner and outer frame channels are essential to good machine performance and safe operation. Extremely dirty conditions may require that the channels be cleaned more often.

1 Raise the load platform to the maximum height.

2 Visually inspect the inner and outer frame channels for debris or foreign material. If necessary, use a mild cleaning solvent to clean the channels.

⚠CAUTION Do not apply any lubrication to the channels.

B-3
Inspect and Lubricate the Winch

Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Carefully lubricate with 30W oil the pivot point on the ratchet pawl.

2 Inspect the brake disks for excessive wear. Replace if pad is less than 1/16 inch (1.5 mm) thick.

3 Inspect pinion shaft bushings for excessive wear. Replace if wall thickness of bushing is less than 1/8 inch (3.1 mm).

C-1
Replace the Winch Brake Disks and Lubricate the Winch Shaft

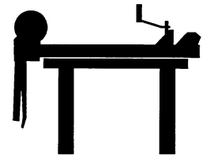
Maintaining the winch is essential to good machine performance and safe operation. An unsafe working condition exists if the winch has excessive wear and/or does not operate smoothly, free of hesitation and binding.

1 Replace the winch brake disks and lubricate the winch shaft. See Repair procedure 1-2, *How to Disassemble the Winch*

Repair Procedures

1-1
How to Disassemble the Machine

1 Using proper lifting techniques, lay the machine over onto a table or other suitable work surface.



2 Remove the leg mounting fasteners. Then remove the legs from the machine.

NOTICE Note where the shims are located between the base plates and the leg before disassembling.

3 Remove the rear wheel mounting fasteners. Then remove the rear wheels and axle.

NOTICE Note where the shims are located between the base plates and the wheels before disassembling.

4 Remove the stair glide mounting fasteners from the base plates (if equipped).

5 Remove the base plate mounting fasteners from the outer frame channels. Then remove the base plates from the outer frame channels.

6 Remove the stair glide mounting fasteners from the outer frame channels (if equipped). Then remove the stair glides from the outer frame channels.

7 Remove the cable retaining fastener from the winch drum. Then remove the cable from the drum.

⚠CAUTION Bodily injury hazard. Cables can fray. Always wear adequate hand protection when handling cable.

8 Remove the inner frame stop angle mounting fasteners from the outer frame channels. Then remove the inner frame stop angle from the outer frame channels.

9 Remove the winch plate mounting fasteners from the outer frame channels. Then remove the winch plate from the outer frame channels.

10 Pull the cable through the pulley located in the handle.

11 Remove the handle mounting fasteners from the outer frame channels. Then remove the handle from the outer frame channels. Slide the outer frame channels off of the inner frame assembly.

⚠CAUTION Bodily injury hazard. After the handle has been removed from the outer frame channels, the outer frame channels are not attached.

12 Remove the cable mounting fastener from the carriage. Then remove the cable from the machine.

13 Loosen the carriage roller wheel mounting fasteners. Slide the roller wheels out of the slots on the carriage. Remove the carriage from the machine.

NOTICE Note where the shims are located on the roller wheels before dissembling.

14 Remove the load platform mounting fasteners from the carriage. Then remove the platform from the carriage.

NOTICE When assembling the machine, use Loctite® removable thread sealant on the base plate mounting fasteners.