

INSTALLATION & OPERATION MANUAL

QL1P5.5K

5,500 LB MOBILE SINGLE-POST LIFT



Read this manual before installing or operating the lift.

Keep it near the lift and make sure every operator understands the safety instructions. Improper installation or operation can cause serious injury or death.

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Product Overview

The QL1P5.5K is a mobile, single-post vehicle lift with a 5,500 lb capacity. It is designed for indoor vehicle inspection, maintenance and repair. Use it only with compatible vehicles whose weight, lift points and load distribution meet the lift's requirements. It is not intended for vehicle storage.

A hydraulic cylinder raises the carriage and arm assembly. Four adjustable support pads contact the vehicle manufacturer's designated lift points. A manual safety lock supports the raised assembly during service.

The steering handle and retractable transport wheel allow the unloaded lift to be repositioned. Before lifting a vehicle, lower the base firmly onto a level, load-bearing floor. Never move the lift with a vehicle on it.

The standard power unit is 1 HP, 110V, single-phase and prewired with a three-prong plug.



Technical Specifications

Specification	QL1P5.5K
Rated capacity	5,500 lb
Maximum lifting height	70-7/8 in.
Minimum pad height	4-5/16 in.
Overall column height	99-5/16 in.
Base length, side reference	71-3/4 in.
Length, plan reference	78-3/4 in.
Base width	47-1/4 in.
Rear arm adjustment	19-11/16 to 26-15/16 in.
Front arm adjustment	24-13/16 to 37-3/16 in.
Carrier span	48-13/16 in.
Pad height adjustment	3-15/16 in.
Lift weight	1,653 lb
Lifting speed	0.94 in./second
Electrical supply / motor	110V, single-phase / 1 HP
Control circuit	24V
Operating noise	Less than 70 dB

Safety Before Every Lift

Only trained, authorized adults may operate this lift. Read the entire manual and learn the controls before use. Keep the lift and surrounding area clean and free of tools, debris and trip hazards.

Never exceed 5,500 lb. Use all four pads and position them only at the vehicle manufacturer's recommended lift points. Check that the arm restraints engage when the pads contact the vehicle.

Turn off the vehicle engine, apply the parking brake and close the doors. No one may remain inside the vehicle or ride on the lift. Keep everyone clear while raising or lowering.

Raise the vehicle a short distance, stop and check all four pad contacts and vehicle stability. Continue only when the vehicle is securely supported and the load is balanced.

Removing or installing heavy components can shift the vehicle's center of gravity. Reassess stability before this work. Keep clear of all moving and pinch-point areas.

Stop immediately if the lift moves unevenly, makes unusual noises, leaks, or has a damaged or unreliable safety device. Take it out of service until a qualified technician resolves the problem.

Safety Systems and Service

Mechanical safety lock. Lower the raised lift onto the safety lock before working beneath a vehicle. Do not rely on hydraulic pressure alone to support a vehicle.

Hold-to-run controls. Operate the lift only while watching the vehicle, pads and lifting assembly. Release the control immediately if an unsafe condition develops.

Hydraulic line-break protection. A pipe-break valve helps prevent sudden descent if hydraulic pressure drops rapidly. It does not replace the mechanical safety lock.

Pressure relief valve. The factory relief setting limits hydraulic pressure to approximately 2,900 PSI. Do not increase the setting to lift an overloaded vehicle.

Before maintenance, fully lower and unload the lift, turn it off and disconnect electrical power. Prevent accidental reconnection. Electrical repairs require a qualified electrician; other service requires qualified personnel.

Do not bypass, remove or alter safety devices. Protect electrical components from moisture. Do not use pressure washers, steam cleaners or corrosive cleaners on the lift.

Receiving, Handling and Storage

Inspect the shipment as soon as it arrives. Compare the contents with the order and check for shipping damage. Report missing or damaged items to the carrier immediately and contact Quick Lift USA.

Most components are preassembled and secured in protective packaging within a steel frame. The arms, adapters and rubber pads are supplied with the lift. The power unit is packaged separately.

Only trained personnel should unload, unpack or handle the lift. Use lifting and transport equipment suitable for the package's weight, dimensions and center of gravity. Secure the load before moving it.

Open the packaging carefully so loose parts cannot fall. Inspect every component before assembly. Do not install or operate damaged equipment.

Store packaged equipment indoors, protected from direct sunlight and excessive moisture. Storage temperature: 14°F to 104°F. Operating temperature: 23°F to 104°F.

Site Preparation and Assembly

Use the lift indoors on a hard, flat, level floor capable of supporting the lift and vehicle. The factory specifies a load-bearing capacity of approximately 615 lb per square foot at the column position. Confirm the floor is suitable before use.

Provide approximately 39-3/8 in. of clear working space around the lifted vehicle and an indoor clear height of about 11 ft 9-3/4 in. Check overhead doors, fixtures and all other obstructions before raising a vehicle.

Do not install or operate near explosives or flammable liquids, in continuously wet areas, or in exposed outdoor conditions. Keep the operating area clear and provide safe access to the controls.

Have qualified personnel assemble the components shipped separately. Use the exploded assembly and original parts list in the technical reference section to identify the arms, adapters, pads, power unit and hardware. Check all connections and fasteners before commissioning.

Keep dirt and moisture out of hydraulic fittings. Inspect hoses for damage and route them away from pinch points and traffic. Correct any leak before using the lift.

Electrical Supply and Initial Testing

The QL1P5.5K uses a **1 HP, 110V, single-phase motor prewired with a three-prong plug**. Connect it to a properly grounded 110V receptacle suitable for the equipment. Never remove the grounding prong or use an adapter that defeats grounding.

Any receptacle, supply-circuit or internal wiring work must be performed by a qualified electrician. Keep cords clear of moving parts and protect electrical equipment from moisture. Disconnect power before opening electrical components.

Do not modify the prewired power unit or bypass its electrical safety controls. Contact Quick Lift USA for service information specific to the installed power unit.

Before the first loaded lift, operate the lift without a vehicle. Check the raising and lowering controls, mechanical safety lock, arm restraints, hydraulic connections and transport mechanism.

Watch the full travel of the carriage and arms. Stop if there is interference, unusual noise, a leak or a control malfunction. Do not put the lift into service until the issue has been corrected.

Turn the power off after use and prevent unauthorized operation.

Positioning the Mobile Lift

Move the lift only when it is unloaded. Use the steering handle to raise the column base onto the transport mechanism. Push or pull the lift carefully into position.

Align the lift with the vehicle before moving the arm assembly beneath it. Avoid contact with the underbody. The vehicle may be positioned over the lowered lift only when there is adequate clearance.

Use the transport release control to retract the wheel and lower the base steadily to the floor. The base must rest firmly on the floor before any vehicle is lifted.

Remove tools, bolts, stones and other debris from beneath the base. Confirm the floor is level and that the lift is stable.

Never raise a vehicle while the column is supported by the transport wheel. Never move the lift while a vehicle is raised or supported on the pads.

Adjusting the Arms and Pads

Move the rear support arms in their available adjustment directions to align the pads with the vehicle's rear lift points. Adjust the front arms inward, outward and sideways as required to reach the front lift points.

Rotate the threaded pads to adjust their height. Counterclockwise rotation raises the pad; clockwise rotation lowers it. The available pad-height adjustment is approximately 3-15/16 in.

Use all four pads. Each pad must sit securely against a designated vehicle lift point; the main arm must not contact the vehicle floor pan or other underbody components.

Check that arm restraints engage and that the pads are level enough to support the vehicle evenly. Do not use loose blocks or improvised adapters to make a vehicle fit.

After the initial short lift, stop and inspect the pad contacts and vehicle balance again. Lower and reposition the vehicle if any contact is insecure.

Raising and Locking the Vehicle

1. Park the vehicle in the service position. Shut off the engine, apply the parking brake and clear the lift area.
2. Position the unloaded lift, retract the transport wheel and set the base firmly on a clean, level floor.
3. Align all four pads with the vehicle manufacturer's designated lift points. Adjust the arms and pad heights, then check the arm restraints.
4. Press the green UP button to raise the vehicle approximately 4 to 6 in. Stop and verify all four contacts, balance and underbody clearance.
5. Continue raising while closely watching the vehicle and lifting assembly. Stop immediately if anything shifts or interferes.
6. At the required service height, lower the lift onto the mechanical safety lock. Confirm the lock is engaged before anyone works beneath the vehicle.

Lowering and Removing the Vehicle

1. Clear everyone, tools and equipment from beneath the vehicle and from the lift's travel path.
2. Raise the lift approximately $\frac{3}{4}$ to $1\text{--}\frac{3}{16}$ in. to remove the load from the safety lock.
3. Pull the safety release cable at the column, then operate the lowering handle on the power unit. Watch the vehicle continuously as it descends.
4. Lower the vehicle fully to the floor. Release the controls and confirm the vehicle is supported by its wheels.
5. Move the pads and arms clear of the vehicle. If the lift must be repositioned, use the transport mechanism only after the vehicle is no longer supported by the lift.
6. Drive the vehicle away only when its path is clear. Turn off the lift and secure it against unauthorized use.

Maintenance Schedule

Before each use: inspect pads, arm restraints, safety locks, hoses, connections, controls and visible structural components. Keep the floor and base clean. Repair leaks and replace damaged parts before operation.

Monthly: inspect bolts, nuts and pins; tighten, clean or replace them as needed. Check shafts, sprockets, chains, pulleys and the cable for wear, alignment and lubrication. Inspect and lubricate sliding components. Check hydraulic connections and the reservoir for leaks.

If a hydraulic connection leaks, have a qualified technician inspect the fitting and seal. If the leak continues, inspect the cylinder seals and replace damaged components.

Hydraulic oil: check its level and condition. Change the oil as needed depending on use and contamination. Use the oil appropriate for the installed power unit and avoid mixing incompatible fluids.

Before maintenance, lower and unload the lift and disconnect power. Never service a pressurized hydraulic system. Dispose of used oil through an approved collection service.

At the end of the lift's service life, have qualified personnel dismantle it. Recycle metal components and dispose of oil, electrical parts and other materials under applicable requirements.

Troubleshooting

Problem	Inspection and corrective action
Motor will not run	Check the 110V supply, plug and power switch. Disconnect power before a qualified technician checks controls or wiring.
Motor runs but lift will not rise	Check vehicle weight, hydraulic oil level and visible leaks. Have a technician inspect the pump, valves and cylinder seals.
Lift will not raise a rated load	Confirm the load does not exceed 5,500 lb and is balanced. Have a qualified technician inspect the hydraulic system. Do not increase the relief setting.
Unusual hydraulic noise	Stop and check the oil level and supply voltage. A technician should check for air in the circuit and carry out unloaded bleeding cycles.
Lift will not lower	Confirm the safety lock is unloaded and released. Have a technician inspect the lowering control and valve.
Leak or damaged safety component	Stop using the lift. Correct the fault before returning it to service.

Do not swap electrical phases on this single-phase, prewired unit. Valve cleaning, pressure checks and seal replacement are service work for qualified personnel. Contact Quick Lift USA if the problem remains unresolved.

Warranty and Customer Service

Quick Lift USA automatically provides a **two-year warranty on all non-wearable parts**. No warranty registration form is required.

For warranty assistance, parts or service, contact Quick Lift USA. Have the model number, serial number and a description of the issue available so the correct components can be identified.

Quick Lift USA Inc.

3380 S. Power Rd. #105

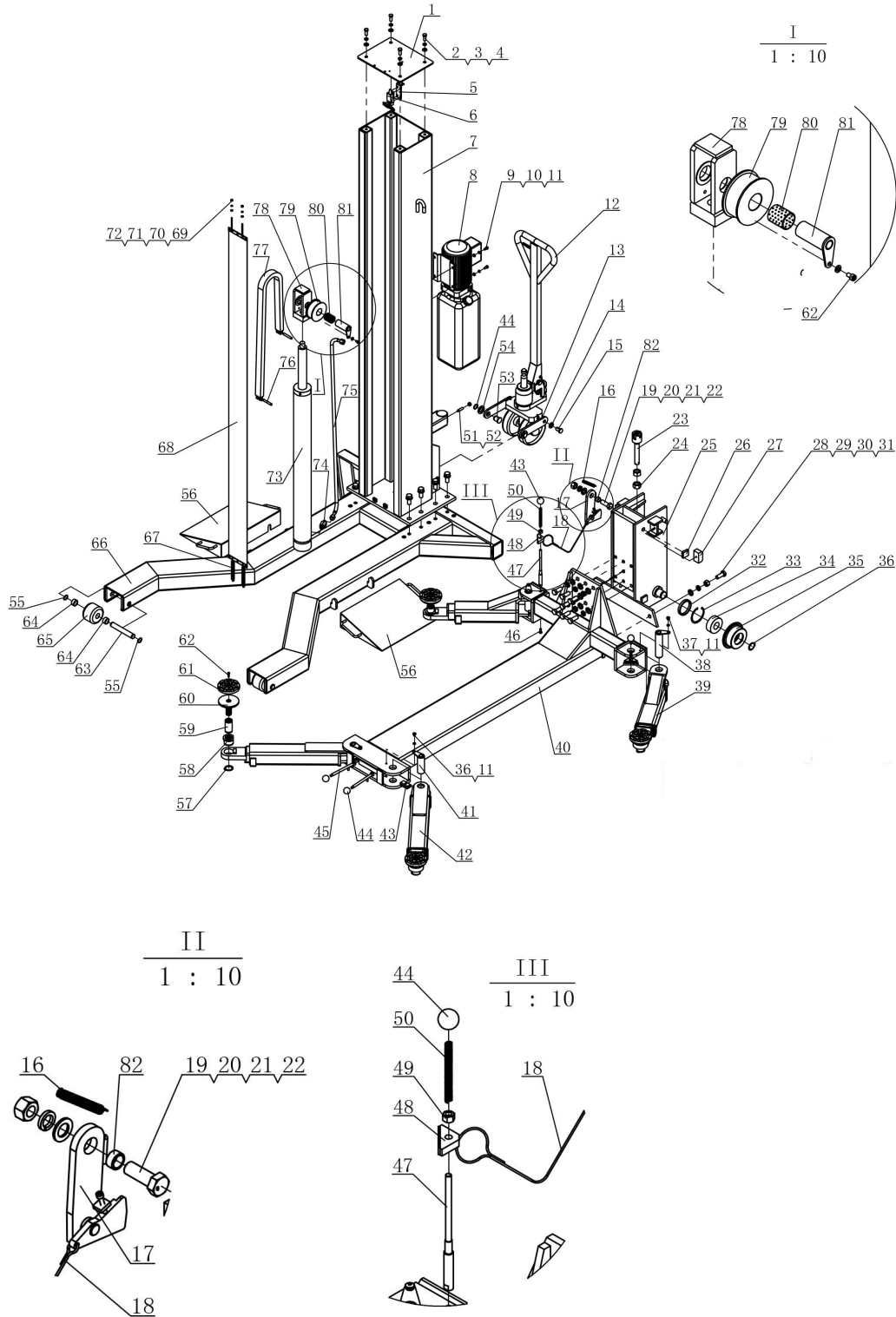
Gilbert, AZ 85234

602-828-0950

www.quickliftusa.com

Use the original assembly drawing and parts list on the following pages to identify replacement parts. Keep this manual with the lift and pass it to any subsequent owner.

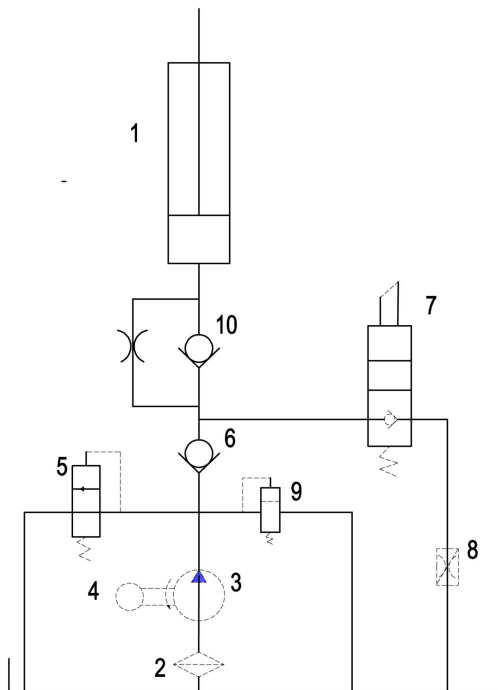
Exploded Assembly



Original Parts List

NO.	NAME	QYT	NO.	NAME	QTY
1	top plate	1	42	Front arm out tube assembly	2
2	hexagonal screw	4	43	Fron arm assembly	2
3	washer	4	44	Toothed plate	2
4	spring washer	4	45	Plastic ball	4
5	Limit switch socket	1	46	handle	2
6	Limit switch	1	47	Pull rod	2
7	Column assembly	1	48	Rake tooth	2
8	Power unit	1	49	Hexagonal screw	2
9	Hexagon socket screw	4	50	spring	4
10	Washer	4	51	screw	1
11	Spring washer	8	52	nut	1
12	Trolley	1	53	axle	2
13	Chain pole for trolley	2	54	washer	2
14	Washer	2	55	Elastic collar	2
15	Axle for trolley	2	56	axle	2
16	Steel cable	1	57	washer	4
17	Spring	1	58	wheel	2
18	Safety assembly	1	59	Base plate assembly	1
19	Hoisting chain screw	1	60	cylinder	1
20	Hexagonal screw	1	61	Throttle valve	1
21	washer	1	62	Hydraulic hose	1
22	Spring washer	1	63	screw	8
23	Hexagonal screw	1	64	nut	8
24	Hexagonal screw	2	65	Elastic collar	4
25	Carriage	1	66	Pad nut	4
26	Nylon block(II)	2	67	Thread socket	4
27	Nylon block(I)	2	68	Pad weldment	4
28	Hexagonal screw	19	69	Rubber pad	4
29	Washer	19	70	screw	4
30	Spring washer	19	71	Bottom fix plate	1
31	Hexagonal screw	2	72	Cover for column	1
32	elastic collar	2	73	Top fix plate	1
33	bearing	2	74	hook	2
34	Wheel	2	75	washer	2
35	Elastic collar	2	76	Spring washer	2
36	Screw	4	77	nut	2
37	Axle for rear arm	2	78	Elevator chain	1
38	Rear arm out tube assembly	2	79	Yoke with roller	1
39	Rear arm assembly	2	80	yoke	1
40	Long arm assembly	1	81	Oilless bearing	1
41	Front arm axle	2	82	Ascension shaft	1

Hydraulic Circuit and Components



No	Name	No	Name	No	Name
1	Tank	5	Start buffer valve	9	Relief valve
2	Filter	6	One-way valve	10	Anti-explosion valve
3	Oil pump	7	Release valve	11	
4	Motor	8	Return oil throttle valve		