

INSTALLATION & OPERATION MANUAL

QLAR4K

Automotive Body Rotisserie



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.

Product Overview

The Quick Lift USA QLAR4K automotive body rotisserie supports a total load of up to 4,000 lb between its two end assemblies. It holds a suitable vehicle body or chassis at structural mounting points for restoration, cleaning, bodywork and finishing.

Two hand-operated hydraulic jacks adjust the working height. Adjustable mounting arms and telescoping connecting sections accommodate different body lengths. A hand-cranked gearbox controls rotation through 360 degrees.

This manual covers the gearbox-equipped configuration shown in the supplied photos. Factory parts numbers are retained for service reference. Do not use this equipment as an occupied-vehicle lift.

Use on a hard, level indoor surface. Confirm structural mounting suitability and balance the body around the rotation axis before turning it. Secure the height and rotation locks before working.



Specifications

Specification	Value
Rated total capacity	4,000 lb
Rotation	360 degrees
Overall length	127.3-266.7 in.
Mounting length between ends	89.1-228.5 in.
Mounting height	22.6-48.6 in.
Overall upright height	53.1-79.1 in.
Overall base width	80.7 in.
Adjustable mounting-arm span	14.5-38.1 in.
Lift system	Two hand-operated hydraulic jacks
Rotation control	Hand-cranked gearbox
Main casters	Four 8 in. locking casters
Center casters	Two 3 in. casters
Finish	Gray and black powder coat
Warranty	2 years on non-wearable parts

Safety Instructions

Only trained personnel may assemble or operate this equipment. Keep bystanders clear. Inspect welds, frames, mounting arms, pins, bolts, casters, hydraulic jacks and the gearbox before every use.

Do not exceed the 4,000 lb total rating. The supported load must be securely attached and distributed between both end assemblies. Verify the load weight before mounting.

Attach only to sound structural points appropriate for the vehicle body. Do not attach to sheet metal or damaged, corroded or weakened structure. Vehicle-specific brackets and fasteners must be suitable for the load.

Clear the full rotation path of people, tools, hoses and other equipment. Keep hands clear of pinch points. Never stand beneath a load while raising, lowering or rotating it.

An unbalanced body can swing suddenly. Adjust the balance before rotation. Do not force the crank to turn a binding or unstable load.

Engage all mechanical height and rotation locks and secure adjustment fasteners before work. Use suitable supplemental stands where needed; never rely on hydraulic pressure or the gearbox alone to support or restrain the load.

Stop immediately if the load shifts, a lock does not engage, hardware loosens or the hydraulic system leaks. Never modify, bypass or remove a safety device.

Assembly: Bases & Connecting Frame

Refer to the gearbox exploded diagram and parts list. Assemble without a load, using suitable handling equipment and assistance for heavy components.

1. Inventory all components. Fit one main connecting tube (#41) to each base stand (#34) with hardware #30-33. Place the bolts through support plate #49 before passing them through the base stand.
2. Install two 8-inch casters (#37) on each base stand with hardware #38-40. Fit one 3-inch caster (#42) to each main connecting tube with hardware #43-45.
3. Insert connecting tubes #47 into the main connecting tubes #41. Insert extension tubes #46 into #47, then connect them through the intermediate tube #48.
4. Set the unloaded frame length for the intended body. Keep both end assemblies aligned. Secure adjustment screws and verify that telescoping connections remain positively engaged.
5. Install stabilizer feet #36 and their adjustment screws #35 as shown. Verify that the bases, wheels and stabilizers operate freely and that all fasteners are secure.

Assembly: Lifting & Rotation Components

- 6.** Install one hydraulic jack (#25) on each base stand using the factory mounting hardware shown in the diagram (#7, #21-23 and #30-33). Keep jack controls accessible.
- 7.** Insert lifting uprights A and B (#24 and #50) into their respective base stands. Install rotating assemblies A and B (#14 and #51) in the matching uprights.
- 8.** Install locking plates #19 with connecting pins #18 and retaining clips #20. Confirm that all locking pins fully engage.
- 9.** Install mounting crossbars #16 and balance-adjustment screws #1. Refit the bearings, washers and locknuts in the sequence shown. The factory assembly text references #7, #4, #7 at the bearing positions; follow the exploded diagram if the hardware arrangement is unclear.
- 10.** Attach screw supports #3 with screws #2. Fit two sliding mounting arms #6 to each crossbar #16 and install the adjustment screws #5 where shown.
- 11.** Install the gearbox base #54, gearbox #55, crank #58 and associated hardware #52-62 according to the gearbox diagram. Align the keyed connections before securing the hardware.
- 12.** Recheck every connection. Test both hydraulic jacks, the gearbox and all locks without a load. Correct any binding, leakage or unreliable locking before use.

Mounting & Balancing the Body

1. Prepare the body or chassis. Remove or secure loose parts and fluids as appropriate. Determine its weight, structural mounting points and expected center of gravity.
2. Use suitable separate lifting equipment and supports to position the body. Do not use the rotisserie to pull a body from the floor or lift an unstable, partially attached load.
3. Adjust the connecting-frame length and mounting-arm positions so both end assemblies align with the selected mounting points. Attach the body with suitable brackets and fasteners; verify every attachment before removing the separate support equipment.
4. Raise the ends gradually and keep the body level. Adjust the balance screws to bring the body center of gravity close to the rotation axis.
5. Secure the height adjustments and test rotation slowly through a small angle with assistance and a clear work area. If the body tries to swing, stop and rebalance it.
6. Once balance and clearance are confirmed, rotate gradually to the required position. Engage the rotation locks and recheck all mounting and adjustment fasteners before starting work.

Operation, Lowering & Movement

Keep the work area clear and watch both end assemblies during every adjustment. Turn the gearbox crank slowly. Stop if the load binds, shifts or becomes unstable.

Before changing height or rotation, clear personnel from the load and support it as needed. Release only the lock required for that adjustment. Re-engage the lock immediately after reaching the desired position.

To lower, use each hydraulic jack release control gradually, following the jack label and instructions. Lower the ends evenly and avoid sudden movement. Do not remove a loaded locking pin without first safely supporting the load.

Before moving the equipment, lower it to a stable position, secure the body against rotation and verify that the mounting connections remain tight. Move only on a smooth, level surface with adequate help; never travel over slopes, steps, gaps or rough ground.

For removal, support the body independently with suitable lifting equipment and stands before disconnecting any mounting fastener. Fully unload the rotisserie before disassembly or storage.

Inspection, Maintenance & Warranty

Before each use, inspect frame members, welds, mounting brackets, fasteners, pins, retaining clips and casters. Check the hydraulic jacks for leaks and the gearbox for damage, looseness or binding.

Keep moving joints, adjustment threads and caster mechanisms clean. Lubricate according to the installed component instructions. Keep hydraulic oil and dirt away from wheels and the floor.

Follow the hydraulic jack and gearbox instructions for fluid level, lubrication and service. Do not introduce an unspecified oil or grease. Remove the load and safely support all components before maintenance.

If a jack drifts, a lock fails to engage, a wheel is damaged or the gearbox operates irregularly, stop using the rotisserie and contact Quick Lift USA. Structural, hydraulic and gearbox repairs require qualified personnel.

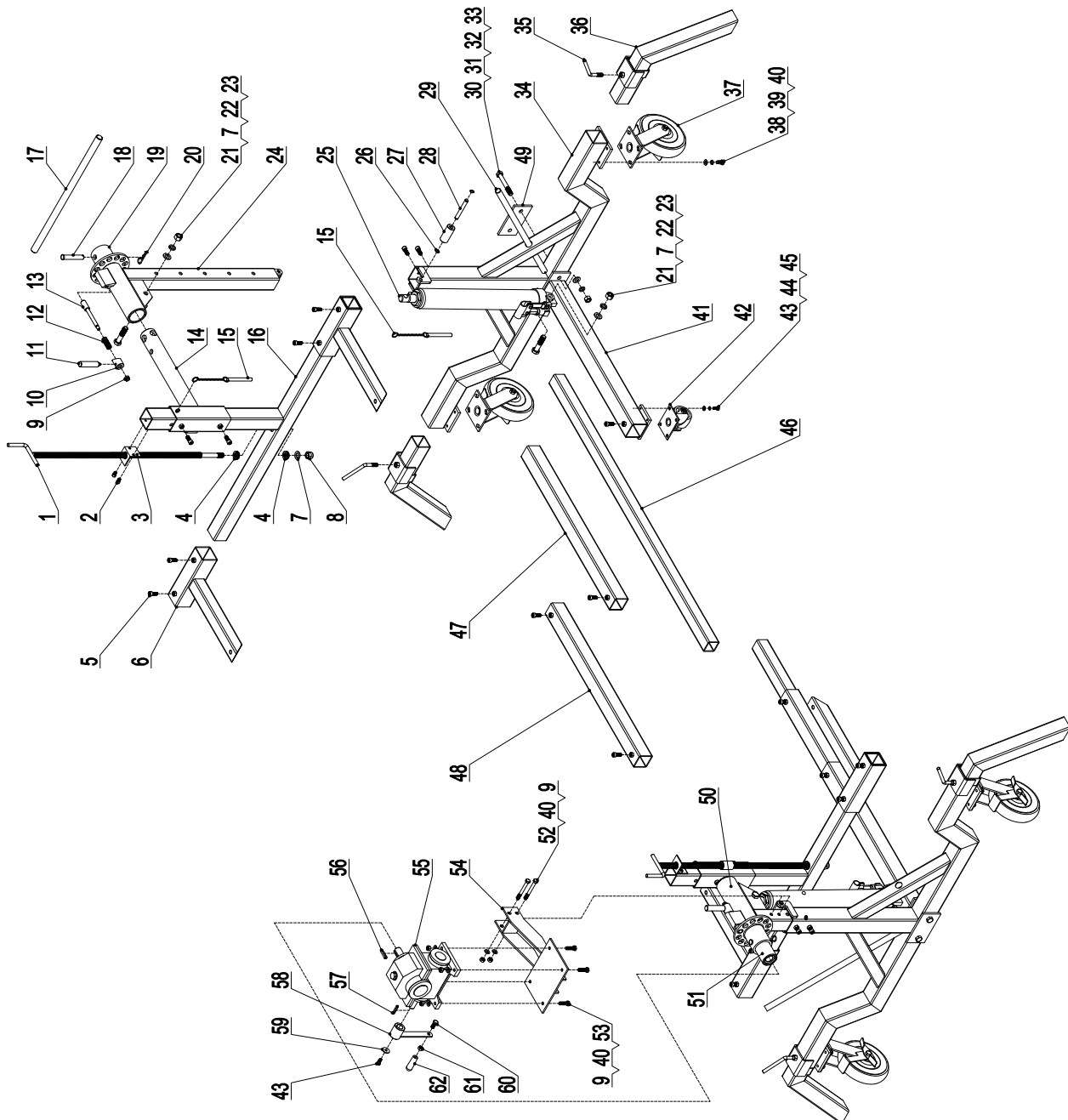
Automatic two-year warranty. Includes a two-year warranty on all non-wearable parts, with no registration required. Contact Quick Lift USA for warranty or service assistance.

Quick Lift USA

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Gearbox Exploded Parts Diagram

PARTS DIAGRAM (WITH GEARBOX)

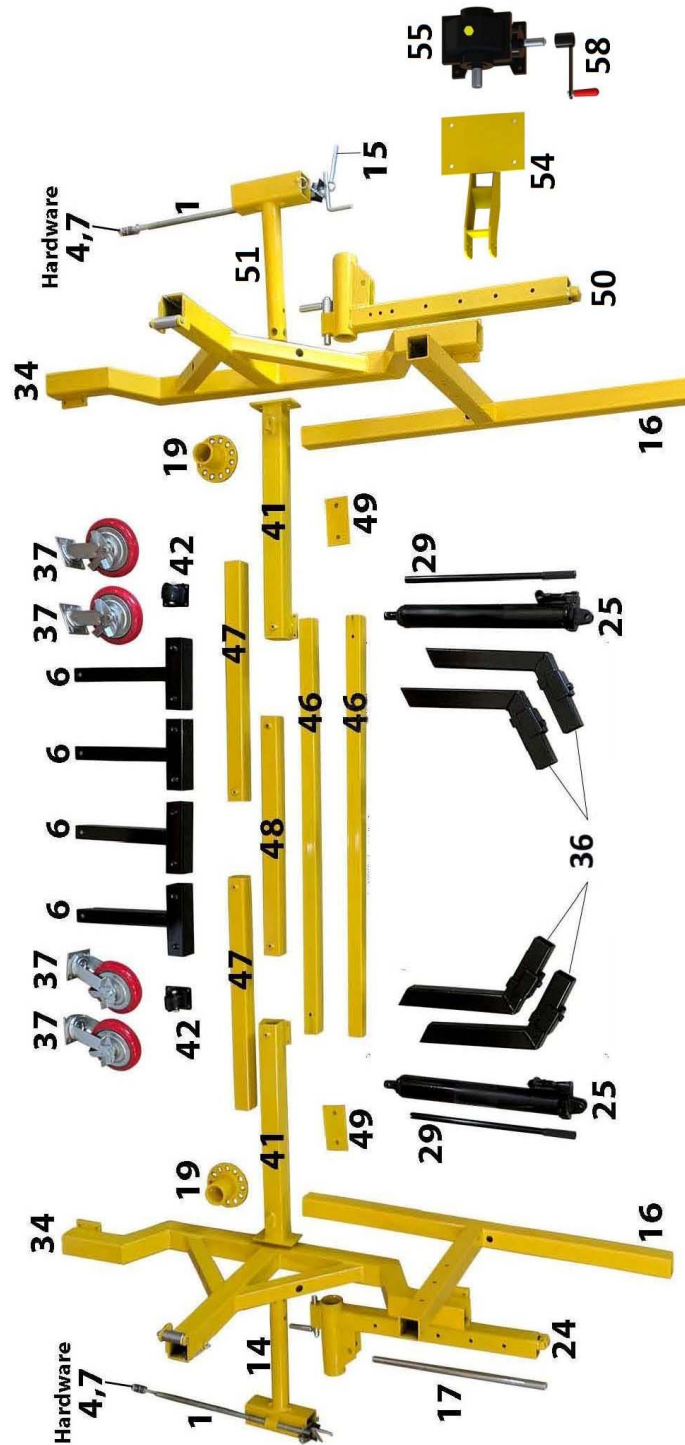


Gearbox Parts List

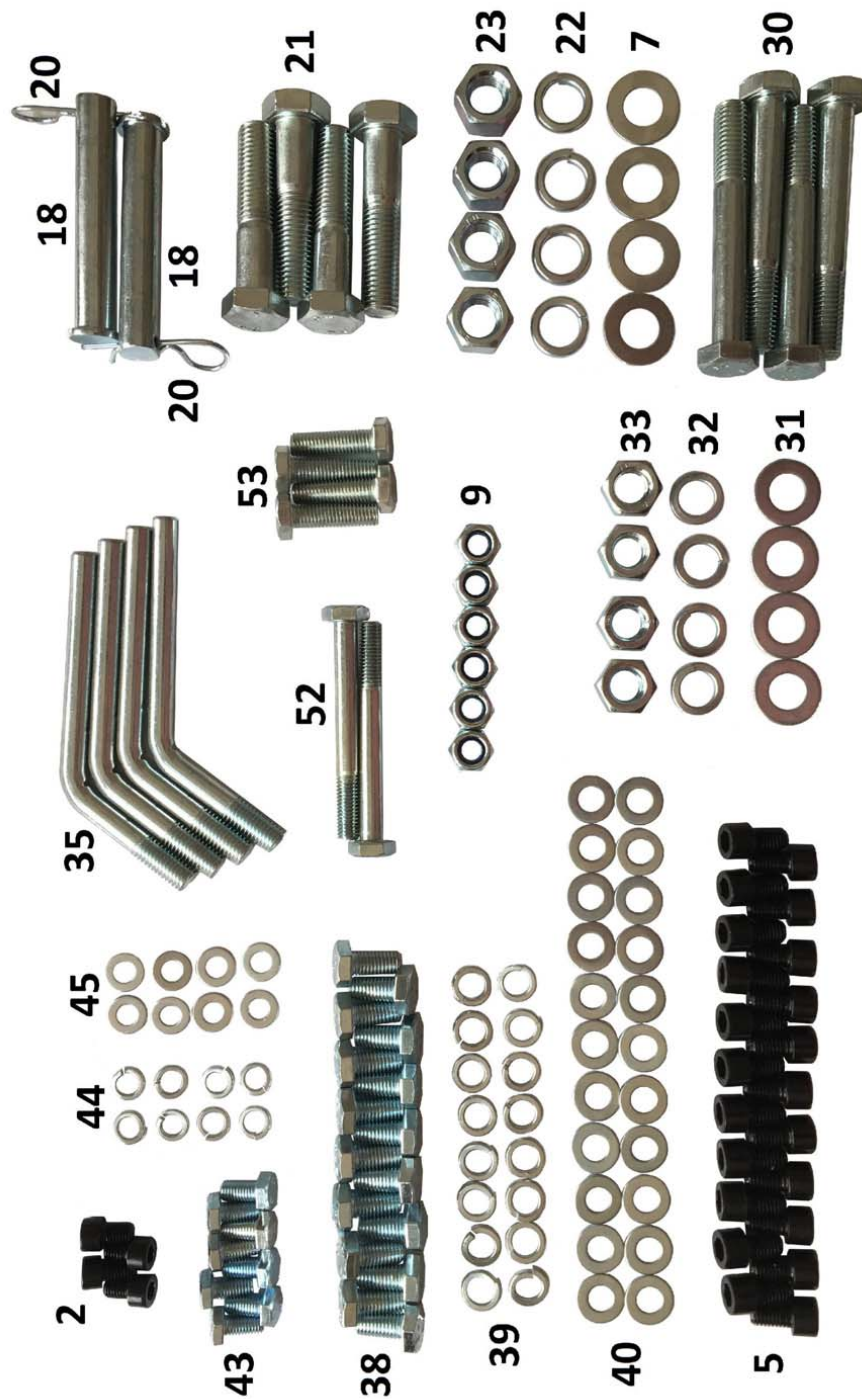
PARTS LIST (WITH GEARBOX)

N0.	Description	QTY	N0.	Description	QTY
1	Adjust Screw Rod	2	32	Lock Washer Φ14	4
2	Screw M8*12	4	33	Lock Nut M14	4
3	Screw Rod Stand	2	34	Main Stand	2
4	Bearing	4	35	Set Screw	4
5	Screw M10*16	22	36	Steel Feet	4
6	Movable Stand	4	37	8" Caster	4
7	Flat Washer Φ16	6	38	Bolt M10*20	16
8	Lock Nut M16	2	39	Lock Washer Φ10	16
9	Lock Nut M10	8	40	Flat Washer Φ10	22
10	Wedge Handle Seat	2	41	Main Connecting Rod	2
11	Handle	2	42	3" Caster	2
12	Spring	2	43	Bolt M8*16	9
13	Locking Pin	2	44	Lock Washer Φ8	8
14	Rotating Stand "A"	1	45	Flat Washer Φ8	8
15	Chain Pin	4	46	Extending Rod	2
16	Stand	2	47	Connecting Rod	2
17	Turning Handle	1	48	Intermediate Connecting Rod	1
18	Connecting Pin	2	49	Plate	2
19	Locking Plate	2	50	Lifting Stand "B"	1
20	R-pin	2	51	Rotating Stand "B"	1
21	Bolt M16*70	4	52	Bolt M10*90	2
22	Lock Washer Φ16	4	53	Bolt M10*35	4
23	Nut M16	4	54	Gearbox Base	1
24	Lifting Stand "A"	1	55	Gearbox	1
25	Hydraulic Cylinder	2	56	Flat Key 8*7	1
26	Circlip	4	57	Flat Key 6*6	1
27	Guide Sleeve	2	58	Rocking Handle	1
28	Guide Spindle	2	59	Big Flat Washer Φ8	1
29	Operation Handle	2	60	Bolt M10*25	1
30	Bolt M14*100	4	61	Nut M10	1
31	Flat Washer Φ14	4	62	Handle Sleeve	1

Gearbox Structural Components



Gearbox Hardware Reference



Dimensions & Fit References

