

INSTALLATION & OPERATION MANUAL

QLSL6

6,000 LB UTV / AUTO SCISSOR 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 QLSL6 is a mobile, electro-hydraulic scissor lift with a 6,000 lb rated capacity. It is designed for indoor inspection, maintenance and repair of compatible UTVs and vehicles. Vehicle weight, lift-point spacing, underside clearance and balance must all meet the lift's requirements.

Two hydraulic cylinders raise the scissor assembly and platform. Four adjustable support arms and rubber pads contact the vehicle manufacturer's designated lift points. The arms slide and rotate to accommodate different lift-point layouts.

A mechanical safety rack and locking pawl support the lift at its service positions. The operator releases the lock manually before lowering. Always lower the platform onto the safety lock before working beneath a vehicle.

A wheeled power-unit trolley supplies hydraulic pressure and serves as the handling device for moving the unloaded lift. The standard electrical configuration is prewired 110V, single-phase.



Technical Specifications

Specification	QLSL6
Rated lifting capacity	6,000 lb
Maximum lifting height	55-1/8 in.
Minimum height	5-5/16 in.
Lifting time	Approximately 45 seconds
Drive system	Electro-hydraulic
Electrical supply	110V, single-phase, prewired
Motor power	Approximately 3 HP
Rated hydraulic pressure	2,611 PSI
Platform size	63 in. x 39-3/8 in.
Hydraulic oil	ISO 46 anti-wear; ISO 32 below 50°F
Initial hydraulic oil fill	Approximately 1.6 US gallons
Operating noise	Less than 80 dB(A)

Use the dimensional drawing for the factory reference points. The maximum lifting height and overall dimensions must not be confused with a lock position or clearance beneath a vehicle.

Lift Dimensions

The factory dimensional drawing shows the platform, overall footprint, arm adjustment range and height range. Measurements are in inches; fractional dimensions are rounded to the nearest 1/16 in.

Reference	Measurement
Overall length	78-3/8 in.
Platform length	63 in.
Platform width	39-3/8 in.
Arm adjustment reference	32-5/16 to 50 in.
Overall arm span reference	66-11/16 in.
Inner span reference	39-9/16 in.
Inner frame reference	30-1/8 in.
Height range	5-5/16 to 55-1/8 in.

Safety Before Every Use

Only properly trained and authorized personnel may operate this lift. Read the manual, understand the controls and know how to stop the lift before use. Wear appropriate work clothing; loose clothing must not contact moving components.

Use the lift indoors on a suitable level concrete floor. Do not use it on asphalt, unstable ground or in excessively humid conditions. Keep the lift area clean and dry.

Never exceed 6,000 lb. This lift supports an entire compatible vehicle, not individual vehicle components. Center the vehicle's load over the platform and use the vehicle manufacturer's designated lifting points.

Keep hands, feet and other body parts away from the scissors, sliding components, pads and pinch points. Keep a clear safety zone of at least 39-3/8 in. around the lift while it moves. Operate from the control position with an unobstructed view.

No one may remain in the vehicle or on the platform during lifting or lowering. Turn off the engine and apply the parking brake before lifting.

Inspect the structure, arm assemblies, pads, safety lock, moving parts, hoses and electrical cord before use. Stop immediately if the lift is damaged, leaks, rises unevenly or operates abnormally.

Vehicle Support and Service Safety

Align all four rubber pads with the vehicle manufacturer's lift points. Before lifting, maintain at least 1 in. of clearance between the pads and vehicle so the arms can be positioned correctly. Check that the load is centered and balanced.

Raise slowly until the pads contact the lift points. Stop to check each contact, then raise the vehicle a short distance and check stability again. Lower and reposition it if necessary.

At the working height, lower the platform onto the mechanical safety lock. Confirm the pawl is fully engaged before entering beneath the vehicle. Do not rely on hydraulic pressure alone.

Removing heavy components can change the vehicle's center of gravity. Reassess stability before this work. Never lift a vehicle with its load offset from the platform.

Do not lower the lift to its minimum position with the vehicle's wheels removed. Check underside clearance throughout the descent.

Do not remove, bypass or modify safety devices. Use approved replacement components. Disconnect power and prevent reconnection before servicing electrical or mechanical components.

Receiving, Transport and Storage

Inspect the shipment and accessories before assembly. Compare the delivered contents with the order and report damage or shortages to the carrier and Quick Lift USA.

Only trained personnel should unload, unpack and transport the equipment. Use handling equipment appropriate for the load's weight, dimensions and center of gravity. Secure the components so they cannot fall or shift.

Open packaging and restraints carefully. Keep clear of straps and loose components. Do not install or operate damaged equipment.

Store the lift indoors, protected from moisture and direct sunlight. Keep all components clean and protect hydraulic connections from contamination.

For an extended period out of service, fully lower and unload the lift, disconnect power, drain hydraulic oil as appropriate for storage and lubricate moving components. Before restarting after more than one month, check and restore the hydraulic oil level.

Site and Floor Requirements

Install indoors in a clean, well-lit area. The factory specifies at least 100 lux, approximately 9.3 foot-candles, of illumination. Place the controls where the operator can see the entire lift.

Keep at least 39-3/8 in. between the lift and walls or other obstructions. Provide clear passages for operation and emergency access. The factory specifies an indoor clear height of at least 13 ft 1-1/2 in.

The factory floor plan specifies a level foundation area approximately 102-3/8 in. x 102-3/8 in. Concrete thickness must be at least 7-7/8 in. The specified concrete strength is approximately 3,625 to 4,350 PSI.

The full-length floor deviation must not exceed 3/16 in. Do not expect the lift to level itself on an uneven floor. Confirm the floor and supporting ground are suitable before installation.

Do not use asphalt or unstable flooring. Keep the operating area free of dust, debris, spilled oil and standing water.

Assembly and Hydraulic Connections

Unpack the lift and all accessories. Inspect them before beginning assembly. Place the lift in its intended operating location and read the complete installation procedure.

Mount the hydraulic power unit on the mobile trolley. The trolley may be placed on either side of the lift, provided the operator has a clear view and it does not obstruct vehicle entry or exit.

The short cylinder hoses are connected at the factory. Connect the long hose to the designated power-unit and cylinder ports using the hydraulic connection drawing.

Keep hose ends and fittings clean. Prevent sand, dust and other contamination from entering the hydraulic system. Route hoses clear of wheels, moving components and pinch points.

Connect the safety-lock release cable to the manual release lever on the power-unit trolley. Confirm that the cable releases the pawl and permits it to return to engagement.

Before a loaded lift, inspect every connection for correct installation and leaks. Never connect or disconnect hydraulic hoses while the lift is loaded or the system is under pressure.

Lift Arms and Pad Adapters

With the unloaded platform raised to a suitable assembly height and supported on its mechanical lock, install the lift arms. Pass each arm's bolt rod through its platform guide slot and secure the nut.

Do not tighten the arm mounting nuts so firmly that the arms cannot slide and rotate in their guide channels. At the same time, every arm and its hardware must remain securely retained.

Fit the appropriate rubber pad and adapter combination for the vehicle's lifting points and underside clearance. Check that each adapter seats securely before use.

Adjust the arms so all four pads align with the manufacturer's lift points. Center the vehicle load on the platform; do not compensate for poor balance with improvised blocks.

Use the original platform assembly drawing and parts list to identify the arm, pad, spacer and retaining hardware. Replace worn or damaged components before lifting.

Electrical Supply and Hydraulic Oil

The standard QLSL6 power unit is prewired for 110V, single-phase operation. Connect it to a suitable grounded supply. Protect the cord from damage, moisture and moving components.

A qualified electrician must perform supply-circuit work and internal electrical repairs. Disconnect power before opening electrical equipment. Do not use three-phase phase-swapping procedures on this single-phase unit.

Fill the reservoir with approximately 1.6 US gallons of clean ISO 46 anti-wear hydraulic oil. Use ISO 32 when the average temperature is below 50°F. The owner supplies the hydraulic oil.

Do not completely fill the reservoir. Using the dipstick, keep the oil approximately 3/8 to 1-3/16 in. below the top of the tank. Do not mix incompatible oils or operate with an insufficient oil level.

After commissioning cycles, check and restore the oil level as needed. The lift must be fully lowered and unloaded when oil is added or the hydraulic system is serviced.

Commissioning and Hydraulic System

Before lifting a vehicle, perform five or six complete unloaded raising and lowering cycles. Learn the controls, purge trapped air and inspect the hydraulic connections for leakage.

Confirm the platform moves smoothly and the mechanical safety lock engages and releases correctly. Inspect the arms, adapters and hose routing through the full range of travel.

If the lift cannot reach its maximum height, check the hydraulic oil level and add the appropriate amount with the lift lowered. Stop if there is unusual noise, leakage or uneven motion.

The hydraulic power unit supplies the two cylinders through the valve block and hose connections. Pressing the UP button raises the platform; operating the lowering handle allows it to descend after the safety lock is unloaded and released.

The relief valve is factory set. Rated system pressure is approximately 2,611 PSI. Only qualified service personnel may check or adjust the setting, and it must never be increased to lift an overloaded vehicle.

If motor rotation or pump operation is incorrect, stop and have a qualified technician inspect the unit. Prolonged incorrect operation can damage the hydraulic pump.

Raising and Engaging the Safety Lock

1. Confirm the lift rests firmly on suitable level concrete. Check the structure, oil level, hoses, pads and safety devices.
2. Position the vehicle with its center of gravity over the platform. Shut off the engine and apply the parking brake.
3. Adjust all four arms and rubber pads to the vehicle manufacturer's designated lift points. Clear the safety zone.
4. Press the green UP button slowly until the pads make contact. Check the contacts, then raise the vehicle a short distance and recheck its stability.
5. Continue raising to the desired service height while watching the vehicle and lift. Stop immediately if anything shifts or interferes.
6. Operate the lowering handle briefly to settle the platform onto the nearest safety-lock position. Confirm the pawl is fully engaged before working underneath.

Turn off the power when leaving the controls to prevent unauthorized operation.

Lowering the Vehicle

1. Clear people, tools and other obstructions from beneath the vehicle and from the platform's travel path.
2. Raise the platform briefly to remove the load from the safety pawl.
3. Pull the manual safety-release lever, then operate the lowering handle on the power unit. Watch the vehicle continuously as it descends.
4. Lower fully and confirm the vehicle rests safely on its wheels. Do not lower to minimum height if the wheels have been removed.
5. Move the support pads and arms clear of the vehicle. Remove service equipment and confirm the exit path is clear before driving away.
6. Leave the lift fully lowered and turn off the power after use.

Moving the Unloaded Lift

Move the lift only when it is fully lowered and unloaded. Disconnect electrical power and prevent reconnection before moving it.

Before disconnecting hydraulic hoses, make sure the lift is unloaded and the hydraulic system is not pressurized. Cap the open connections to keep out dirt.

Insert the trolley's lower pin into the designated handling holes in the lower lift support assembly. Apply downward pressure to the trolley handle to tilt the unloaded lift until its rear wheels contact the floor.

Move the lift carefully to the new location. Keep its path clear, control the load and keep everyone away from pinch points.

After repositioning, set the lift firmly on suitable level concrete. Reconnect the hoses, inspect for leaks and complete unloaded operating checks before lifting another vehicle.

Maintenance and Hydraulic Oil Care

Daily: inspect the mechanical lock, pads, moving parts, hydraulic hoses and fittings. Confirm the lock engages and releases reliably. Stop using the lift if a safety component is damaged or a leak is present.

Weekly: check the hydraulic oil level and condition. If the lift cannot reach full height, lower and unload it before checking the oil. Correct leaks before adding more oil.

Monthly: clean and lubricate the safety rack, pawl and sliding components. Check bolted connections, lubrication and wear. Replace worn or damaged components before returning the lift to service.

Every three months: have qualified personnel inspect and clean the internal oil strainer using a suitable cleaning method. Do not use gasoline as a cleaning solvent.

Change hydraulic oil **as needed depending on use and contamination**. Fully lower and unload the lift, drain the used oil, clean the tank and strainer, and filter fresh oil during refilling. Dispose of used oil through an approved service.

If supply voltage varies by more than 10%, have a qualified electrician assess the power supply and appropriate voltage protection. Operating noise is less than 80 dB(A).

Troubleshooting

Symptom	Check and corrective action
Motor hums or will not run	Stop. Check the 110V supply and cord. Have a qualified technician inspect the motor, controls and electrical circuit.
Motor runs but lift will not rise	Check oil level, vehicle weight and visible leaks. A technician should inspect the pump, relief valve, lowering valve, strainer and seals.
Slow lifting	Have a technician inspect pump outlet seals, hydraulic leaks and the oil strainer.
Vibration or uneven movement	Stop. Check for air in the hydraulic circuit, suction-line leaks or a blocked strainer. Carry out unloaded bleeding cycles after repairs.
Lift will not lower	Unload and release the mechanical safety lock. If the problem remains, have a technician inspect the lowering valve and controls.

Disconnect power before service. Do not loosen a pressurized fitting or valve, run the motor with the pump assembly opened, or raise the relief setting to exceed 6,000 lb. Contact Quick Lift USA if a fault cannot be corrected safely.

Warranty and Customer Service

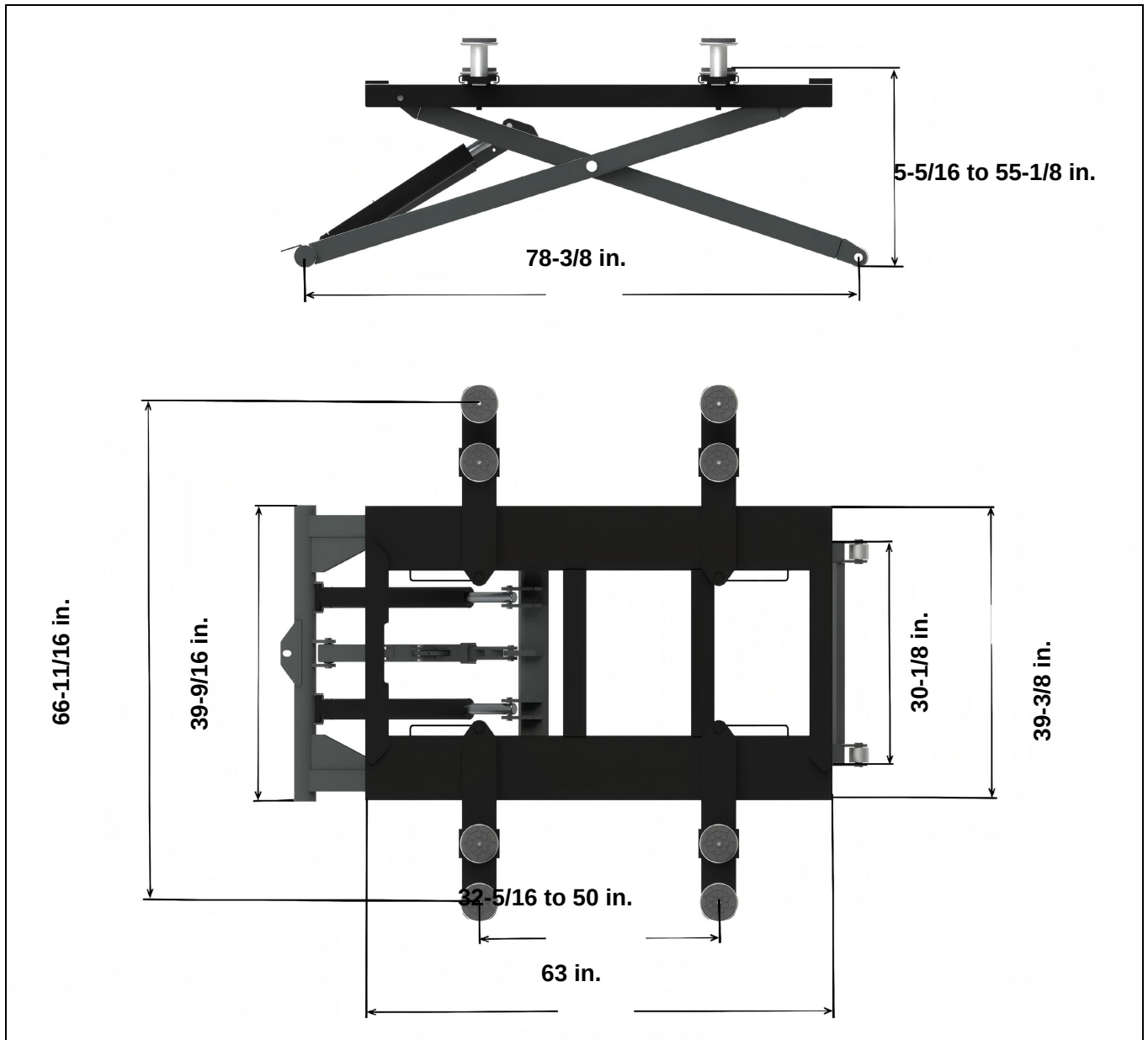
Quick Lift USA automatically provides a **two-year warranty on all non-wearable parts**. No warranty registration form or warranty card is required.

Contact Quick Lift USA for warranty support, replacement parts or service. Have the lift's model number, serial number and a description of the issue available.

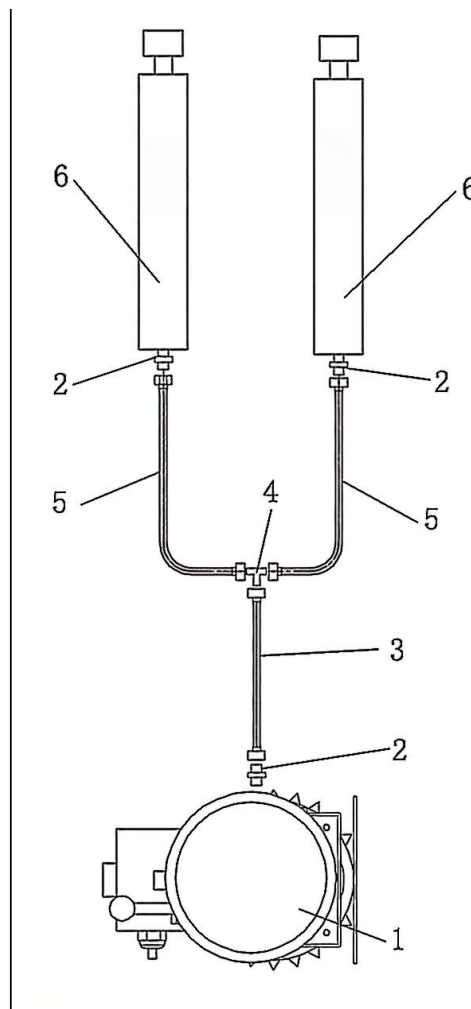
Quick Lift USA Inc.
3380 S. Power Rd. #105
Gilbert, AZ 85234
602-828-0950
www.quickliftusa.com

The following technical references retain the factory assembly drawings, part identifiers, quantities and component specifications. Use them to identify the correct replacement components. Keep this manual with the lift.

Lift Dimensional Drawing



Hydraulic Hose Connections



Hydraulic Circuit and Components

Serial No.	Name	Quantity	Serial No.	Name	Quantity
1	Pump Station	1	4	Three-way Connector	1
2	Oil Pipe Joint	3	5	Hydraulic Hose 2#	2
3	Hydraulic Hose 1#	1	6	Oil Cylinder	2

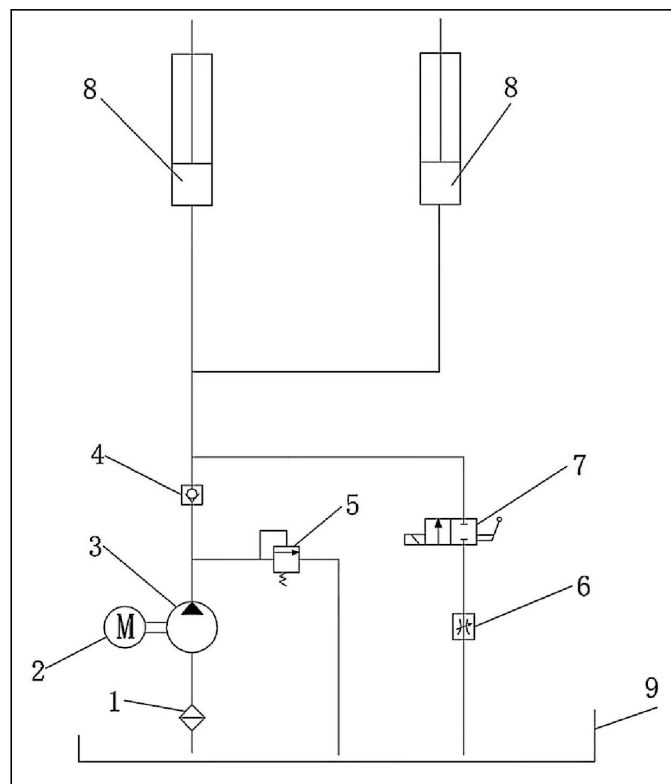


Figure10 Hydraulic System Schematic Diagram

Hydraulic System Schematic Diagram Part List:

Serial No.	Name	Quantity	Serial No.	Name	Quantity
1	Filter	1	6	Throttle Valve	1
2	Motor	1	7	Manual Solenoid Valve	1
3	Hydraulic Pump	1	8	Oil Cylinder	2
4	Check Valve	1	9	Oil Tank	1
5	Relief Valve	1	10		

Lift Assembly and Parts

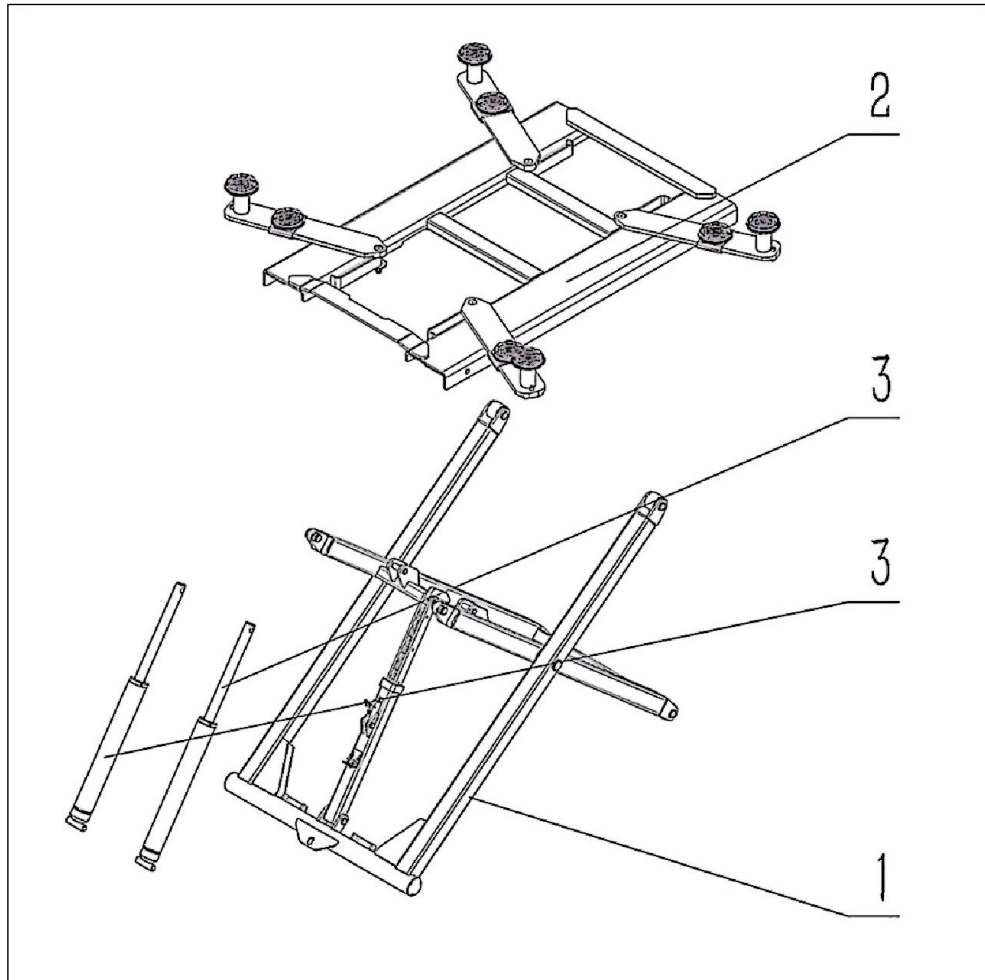


Figure 13 Lift Exploded View

Lift Part List:

Serial No.	Preview	Name	Quantity
1		Scissor Arm assembly	1
2		Platform assembly	1
3		Oil Cylinder	2

Scissor Assembly

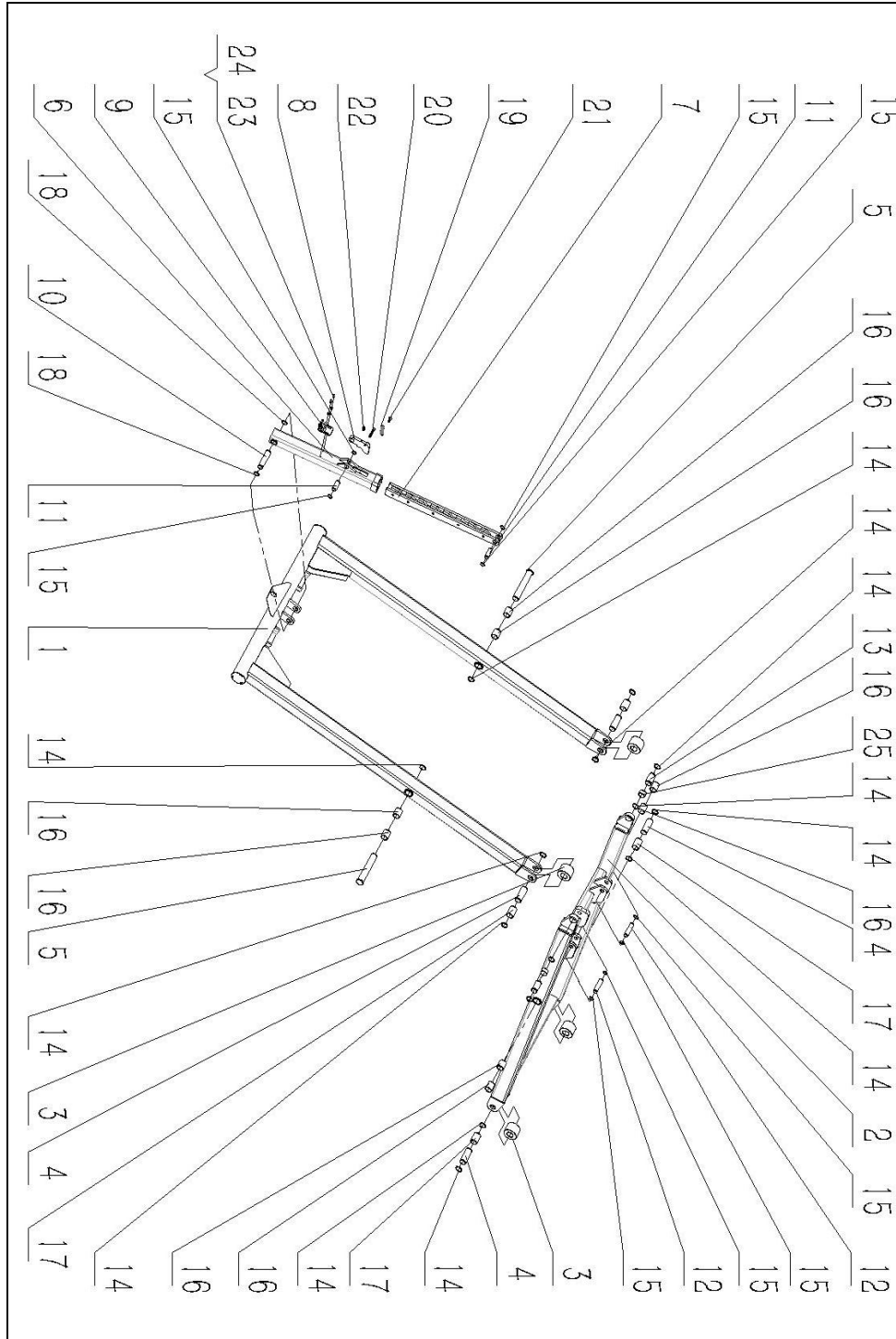
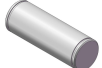
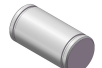


Figure 14 Scissor Arm Exploded View

Scissor Parts: 1–13

Scissor Arm Part List:

Serial No.	Preview	Name	Quantity
1		Outer arm welded assembly	1
2		Inner arm welded assembly	1
3		Travel Wheel	4
4		Travel Shaft	4
5		Arm Center Shaft	2
6		Lock Housing Tube Weldment	1
7		Lock Rack Weldment	1
8		Lock Pawl	1
9		Tee Bracket Weldment	1
10		Lock Housing Lower Shaft	1
11		Lock Housing Upper Shaft	2
12		Cylinder Upper Shaft	2
13		Platform Lug Support Shaft	2

Scissor Parts: 14–25

14		Shaft Elastic Retainer Ring 30	14
15		Shaft Elastic Retainer Ring 20	8
16		Oilless Bushing 303440	8
17		Oilless Bushing 303450	4
18		Shaft Elastic Retainer Ring 25	2
19		Spring	1
20		Hexagon Head Bolt, Full Thread M8 × 50	1
21		Hexagon Head Bolt, Full Thread M8 × 20	1
22		Hexagon Socket Head Cap Screw M8 × 12	1
23		Hexagon Socket Head Cap Screw M6 × 10	2
24		Flat Washer 6	2
25		Oilless Bushing 303420	2

Platform Assembly and Parts

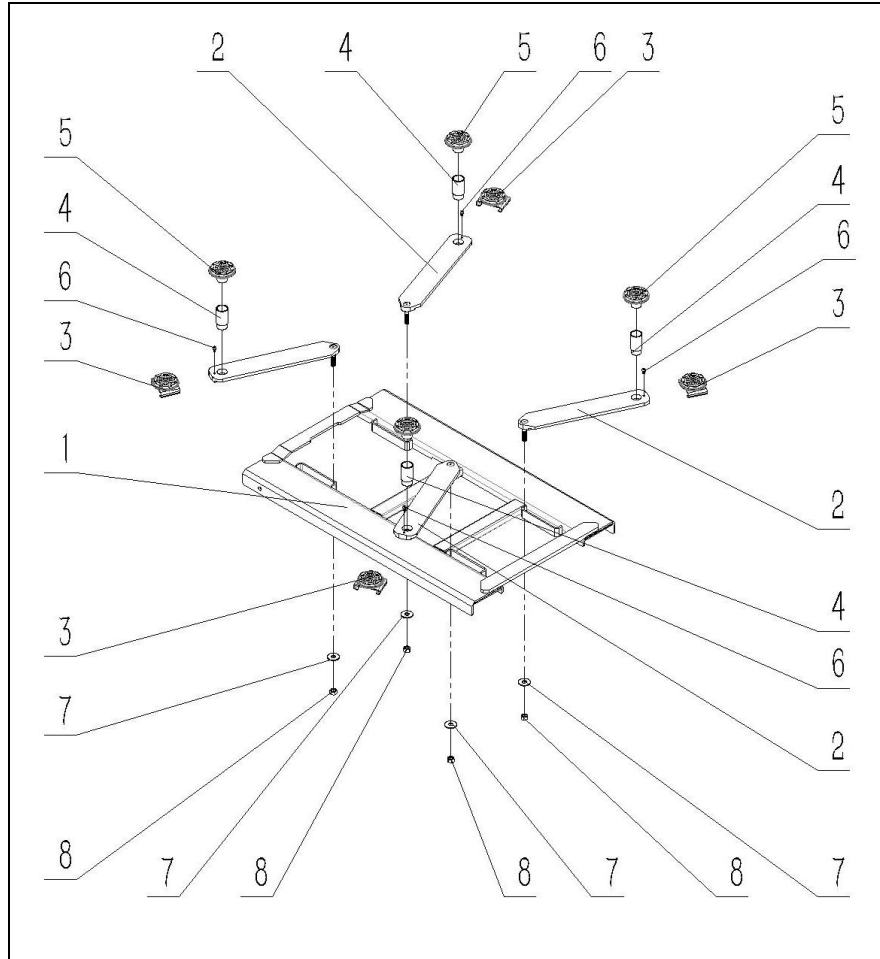


Figure 15 Lift Platform Exploded View

Lift Platform Part List:

Serial No.	Preview	Name	Quantity
1		Platform Cover Weldment	1
2		Lift Arm Weldment	4
3		Lift Arm Slide Groove Assembly	4

Platform Parts: Continued

4		Pad Height Adapter Spacer	4
5		Pallet Component	4
6		Hexagon Socket Head Cap Screw M10×16	4
7		Extra Large Flat Washer, 20	4
8		Type 1 Hexagon Lock Nut with Non-Metallic Insert, M20	4

Power Trolley Assembly

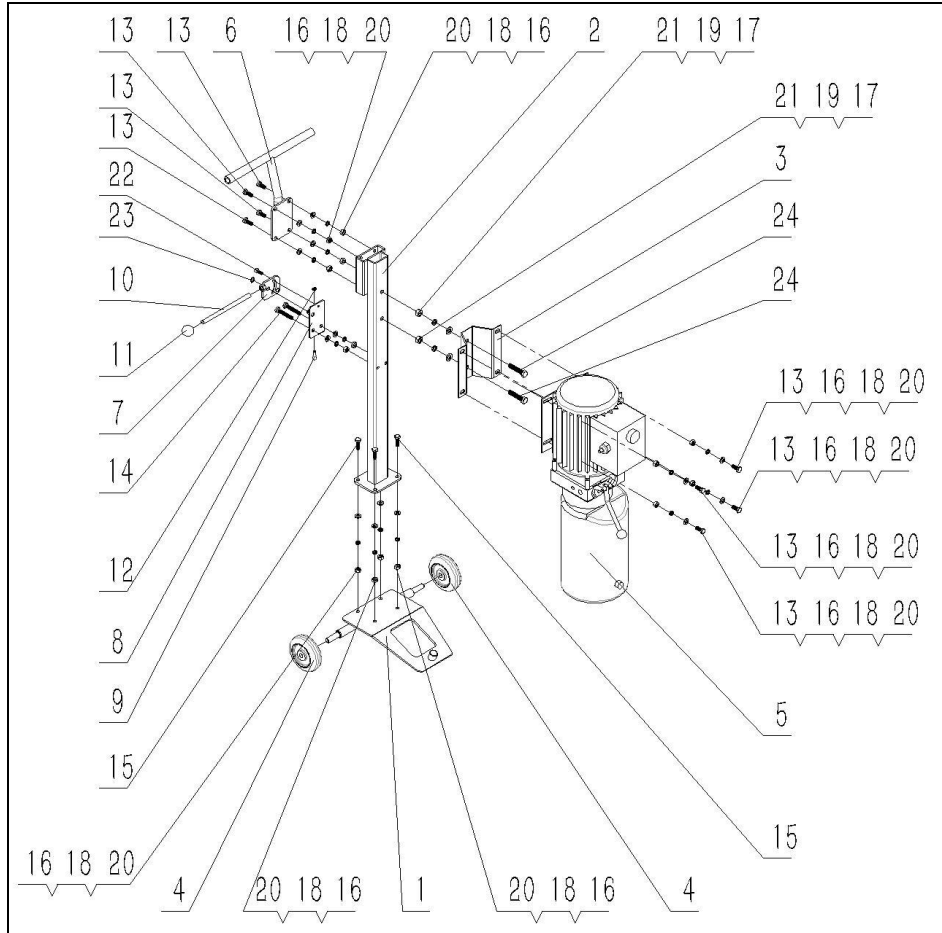


Figure 16 Mobile Power Unit Exploded View

Mobile Power Unit Part List:

Serial No.	Preview	Name	Quantity
1		Mobile Power Unit Cart Base Plate Weldment	1
2		Mobile Power Unit Cart Column Assembly Weldment	1
3		Power Unit Mounting Plate	1

Power Trolley Parts: 4–17

4		Caster Wheel	2
5		Power Unit	1
6		Mobile Power Unit Cart Handle Assembly Weldment	1
7		Unlock Plate Weldment	1
8		Unlock Mounting Plate	1
9		Cable Lock Bolt	1
10		Unlock Operating Rod	1
11		Handle Ball	1
12		Cable Lock Nut	1
13		Hexagon Head Bolt, Full Thread M8 × 20	8
14		Hexagon Head Bolt, Full Thread M8 × 50	2
15		Hexagon Head Bolt, Full Thread M8 × 25	4
16		Flat Washer 8	14
17		Flat Washer 10	2

Power Trolley Parts: 18–23

18		Spring Washer 8	14
19		Spring Washer 10	2
20		Hexagon Nut M8	14
21		Hexagon Nut M10	2
22		Hexagon Socket Head Cap Screw M6×16	1
23		Shaft Elastic Retainer Ring 10	1
24		Hexagon Head Bolt, Full Thread M10×50	2

Hydraulic Power Unit Assembly

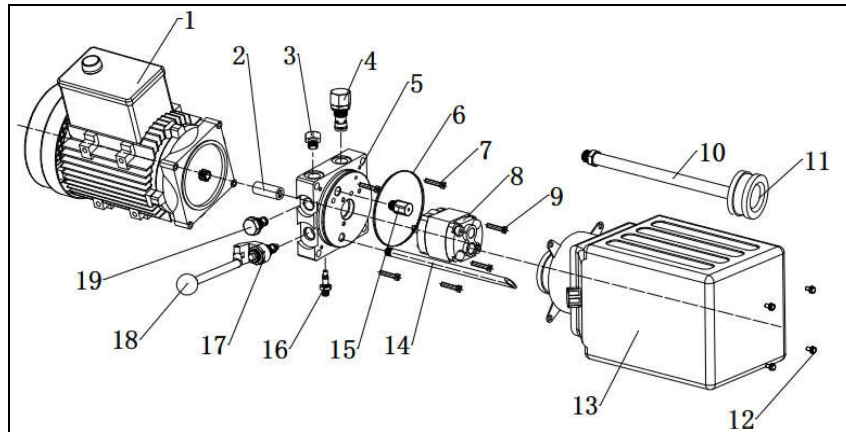
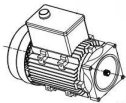


Figure 17 Lift Power Unit Exploded View

Mobile Power Unit Part List:

Serial No.	Preview	Name	Quantity
1		Motor	1
2		Connecting Shaft	1
3		Pipe Plug	1
4		Overflow Valve	1
5		Valve Plate	1
6		O-Ring	1
7		Valve Body Bolt	4

Hydraulic Power Unit Parts: Continued

8		Gear Pump	1
9		Gear Pump Bolt	2
10		Suction Pipe	1
11		Filter	1
12		Oil Tank Bolt	4
13		Oil Tank	1
14		Return Pipe	1
15		Buffer Valve	1
16		Throttle Valve	1
17		Manual Unloading Valve	1
18		Unloading Valve Handle	1
19		Check Valve	1