Installation and Owner Manual

QL4P12KHD

12,000 lb heavy-duty four-post vehicle lift



Read this manual and all warning labels before installing, operating, or servicing the lift. Keep these instructions available to every operator.

Safety, Warranty, and Contact

Only trained, authorized operators may use this lift. Read this manual and all warning labels before installation, operation, or service. Failure to follow these instructions can cause serious injury or death.

Never exceed the 12,000 lb rated capacity. Confirm that the vehicle fits the runways and that its weight and load distribution are suitable. Keep everyone off the lift and out of the vehicle while it is moving.

Lower the lift onto all four mechanical safety locks before working beneath or around a raised vehicle. Never rely on hydraulic pressure alone to support a vehicle.

Inspect the lift before each use. Stop operation if you find damaged components, loose anchors, leaks, uneven lifting, or a safety device that does not work correctly. Disconnect and secure the electrical and air supplies before service.

Quick Lift USA automatically provides a two-year warranty on all non-wearable parts. No registration form or other paperwork is required to activate this warranty.

For parts, service, or warranty assistance, contact Quick Lift USA at 602-828-0950 or www.quickliftusa.com. Our address is 3380 S. Power Rd. #105, Gilbert, AZ 85234.

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Operator Safety

Keep the lift area clean, dry, and free of oil, grease, tools, and debris. Wear suitable clothing and non-slip protective footwear. Operate only between 41°F and 104°F.

Keep hands, feet, and other body parts clear of moving components. Keep customers and bystanders away while raising or lowering. No one may remain in the vehicle or stand on the lift during movement.

Drive carefully onto the runways, center the tires, and apply the parking brake. Watch the lift and vehicle throughout every raising and lowering cycle. Keep vehicle doors closed.

Keep all safety devices, guards, and warning labels in place. Never modify or bypass a safety device. Qualified, authorized technicians must perform repairs with the correct replacement parts.

Ground the electrical system properly and protect it from moisture. Disconnect and secure the power and compressed-air supplies before maintenance. Do not operate near flammable gases or vapors.

Vehicle Stability and Warning Labels

Check vehicle stability at low height before continuing. Confirm that every tire is securely supported and that the vehicle fits the runway width and length.

Removing or installing heavy vehicle components changes the center of gravity and may make the vehicle unstable. Follow the vehicle manufacturer's service and support requirements.

Before working under a raised vehicle, confirm that all four mechanical locks are fully engaged at the same height. Remove stands, trays, tools, and other obstructions before lowering.

DANGER identifies a risk of death or serious injury. WARNING identifies unsafe practices that can cause death or serious injury. CAUTION identifies risks of injury or equipment damage. ATTENTION identifies conditions that may damage equipment or property.

Record missing parts or shipping damage on the delivery paperwork and contact Quick Lift USA for assistance. Keep this manual accessible to all operators and transfer it with the lift if it is sold.

Product Overview

The QL4P12KHD is a 12,000 lb heavy-duty four-post lift with reinforced, non-skid diamond-plate runways. Its hydraulic cylinder and lifting cables raise the runways for vehicle inspection, maintenance, and alignment work.

Mechanical self-locking devices support the runways at designated heights. An air-operated release disengages the locks for lowering. Separate slack-cable safety devices provide additional protection at the crossbeams.

Adjustable runway spacing accommodates compatible vehicles. Integrated slip plates and adjustable turnplate pockets support alignment work with the appropriate equipment.

The power unit is rated 2 HP and operates on 220V, single-phase power. Hand-pump and pneumatic jacking beams are available separately. The jacking beam shown in the product image is an optional accessory.



Technical Specifications

These dimensions apply to the QL4P12KHD. Maximum lifting height is measured to the top of the runways; underside clearance is a different measurement.

SPECIFICATION	VALUE
Model / capacity	QL4P12KHD / 12,000 lb
Lifting time	63 seconds
Overall length, with ramps	236-3/4 in.
Overall length, without ramps	200-3/4 in.
Overall width	126-1/4 in.
Width between columns	112-1/4 in.
Drive-through clearance	98-3/8 in.
Overall height	86 in.
Gross weight	2,941 lb
Motor / electrical supply	2 HP / 220V, single-phase

Runway Heights and Spacing

Runway spacing is adjustable with the lift unloaded. Always secure the runway in its selected position before loading a vehicle.

SPECIFICATION	VALUE
Maximum lift: top of runway	75-9/16 in.
Maximum locked height: top	72-7/8 in.
Maximum clearance under runway	68-1/8 in.
Maximum locked underside clearance	65-3/8 in.
Minimum runway height	8-11/16 in.
Standard spacing between runways	43-5/16 in.
Adjustable spacing between runways	39 to 50-7/8 in.
Runway width	20 in.
Compressed-air supply	73 to 116 psi
Filter/regulator pressure setting	116 psi

Installation Tools

Prepare a rotary hammer drill with a 3/4 in. masonry bit, hammer, level, chalk line, screwdrivers, pliers, locking wrench, and a tape measure at least 24 ft 7-1/4 in. long.

Use a 12 in. adjustable wrench, a ratchet with a 28 mm socket, wrenches sized 10, 12, 13, 14, 17, 19, 24, and 30 mm, and hex keys sized 3, 5, and 6 mm.

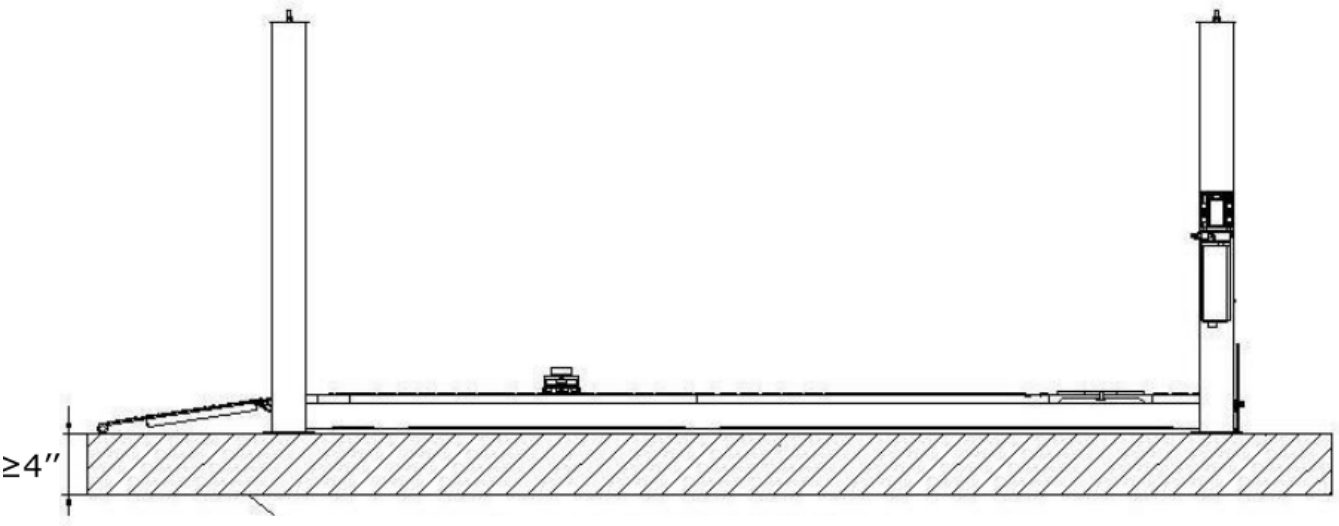
Match metric tools and fasteners to the supplied hardware. Use a forklift or hoist rated for the load, and protect hydraulic components and cables during handling.

Site and Foundation Requirements

Store the lift in a dry, ventilated area away from flammable materials. The standard installation is indoors. The factory specifies an optional motor protective cover for outdoor installation; contact Quick Lift USA before selecting an outdoor site.

Concrete must be at least 4 in. thick, completely dry and cured, level, free of cracks, and rated at a minimum compressive strength of 3,000 psi. The factory specifies concrete without reinforcing steel bars and a minimum curing period of 15 days.

Check room dimensions, vehicle approach, and overhead obstructions. Provide clearance for the lift and the entire raised vehicle. Unsuitable concrete or improper anchoring can allow the lift or vehicle to fall.



Concrete strength: 3,000 psi minimum

Electrical and Compressed-Air Supply

The 2 HP power unit requires 220V, single-phase power. A qualified electrician must verify the available supply, conductor sizing, connections, and grounding against the installed motor data plate. Keep power disconnected and secured during assembly.

The safety-lock release requires a compressed-air supply of 73 to 116 psi. Set the filter/regulator to 116 psi as specified in the installation procedure.

Use the supplied large and small air lines at the designated fittings. Match the actual tubing and fittings to the factory parts references; do not substitute incompatible sizes.

Step A-B: Installation Layout

Confirm site suitability before unloading and assembly. Carefully remove the packaging and compare all components with the shipment list.

Move the columns and approach ramps beside their installation positions. Protect cables, hoses, and other loose parts from damage.



Fig. 6



Shipment Parts List

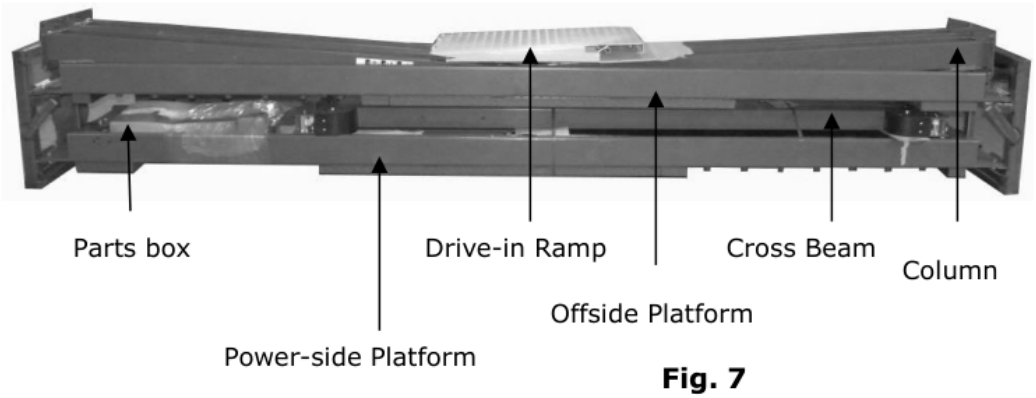


Fig. 7



Fig. 8

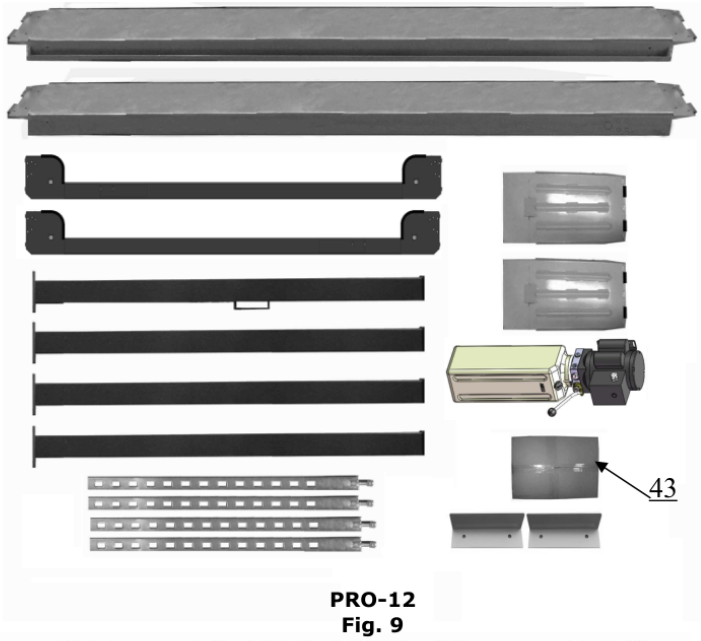
Step B: Check Supplied Components

Loosen the upper shipping-frame fasteners and remove the offside runway. Remove the loose parts stored inside the power-side runway, then remove the shipping frame.

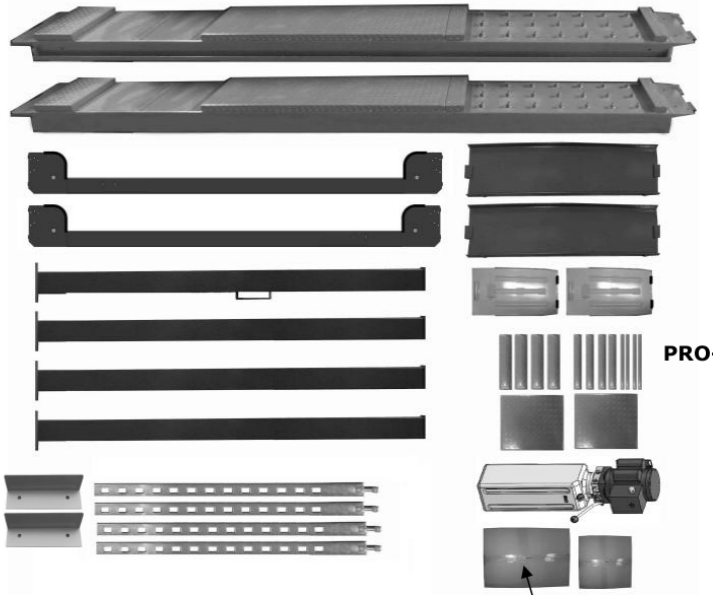
Lay out all components and check them against the shipment list. Use the alignment-model component arrangement for this lift.

parts inside the power-side platform, then remove the package stand.

(See Fig. 9).



PRO-12
Fig. 9



PRO-12A/PRO-1
Fig. 10

Step B: Check the Hardware Bags

Open the parts box and compare its contents with the supplied parts list. Check every hardware bag and keep each fastener with its assigned component.

Do not begin assembly until all required parts are present and in good condition.



Fig. 11

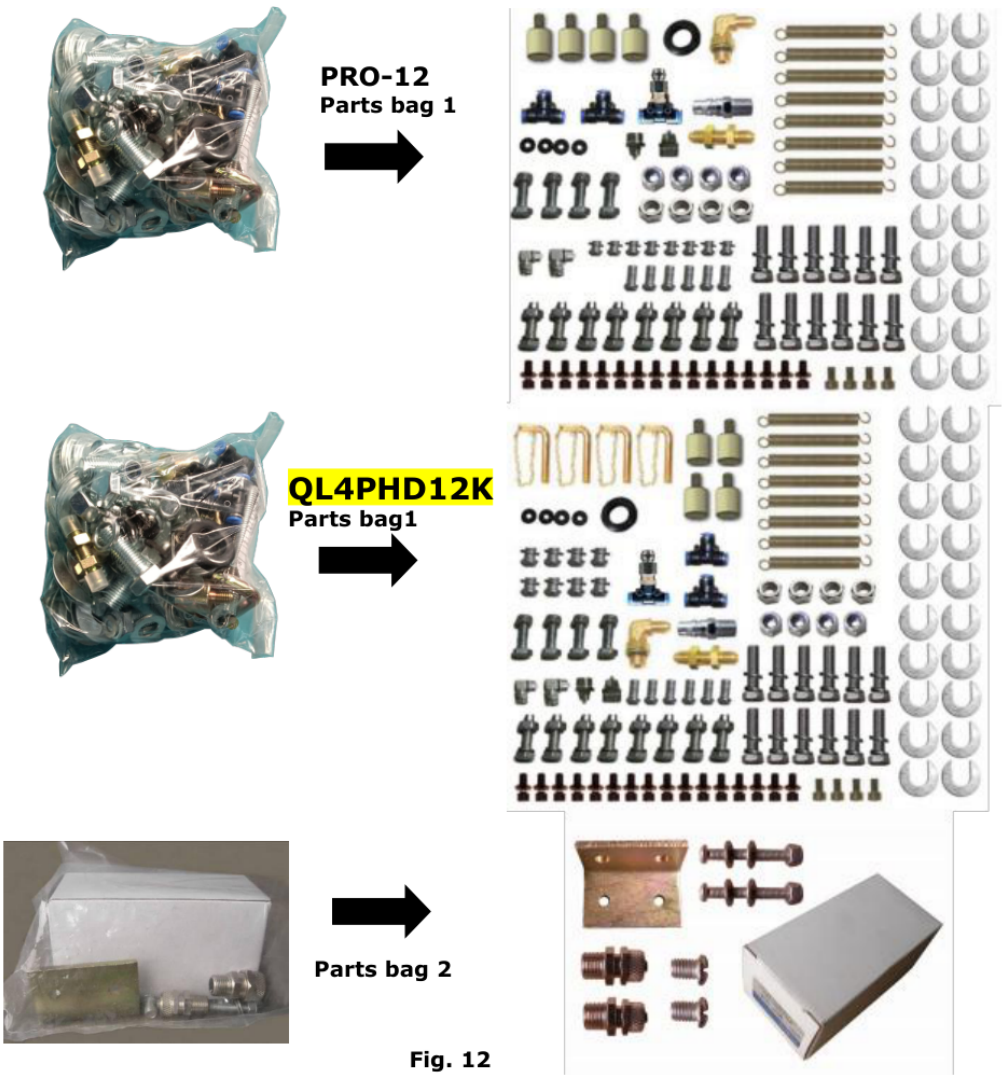


Fig. 12

Step C: Mark the Installation Layout

Mark the column-base layout with a chalk line. Confirm that the floor is flat and reserve adequate approach space in front of and behind the lift.

For this model, layout dimensions are A: 200-3/4 in.; B: 126-1/4 in.; and diagonal C: 237-1/4 in. These are installation-layout references, not the overall length including ramps.

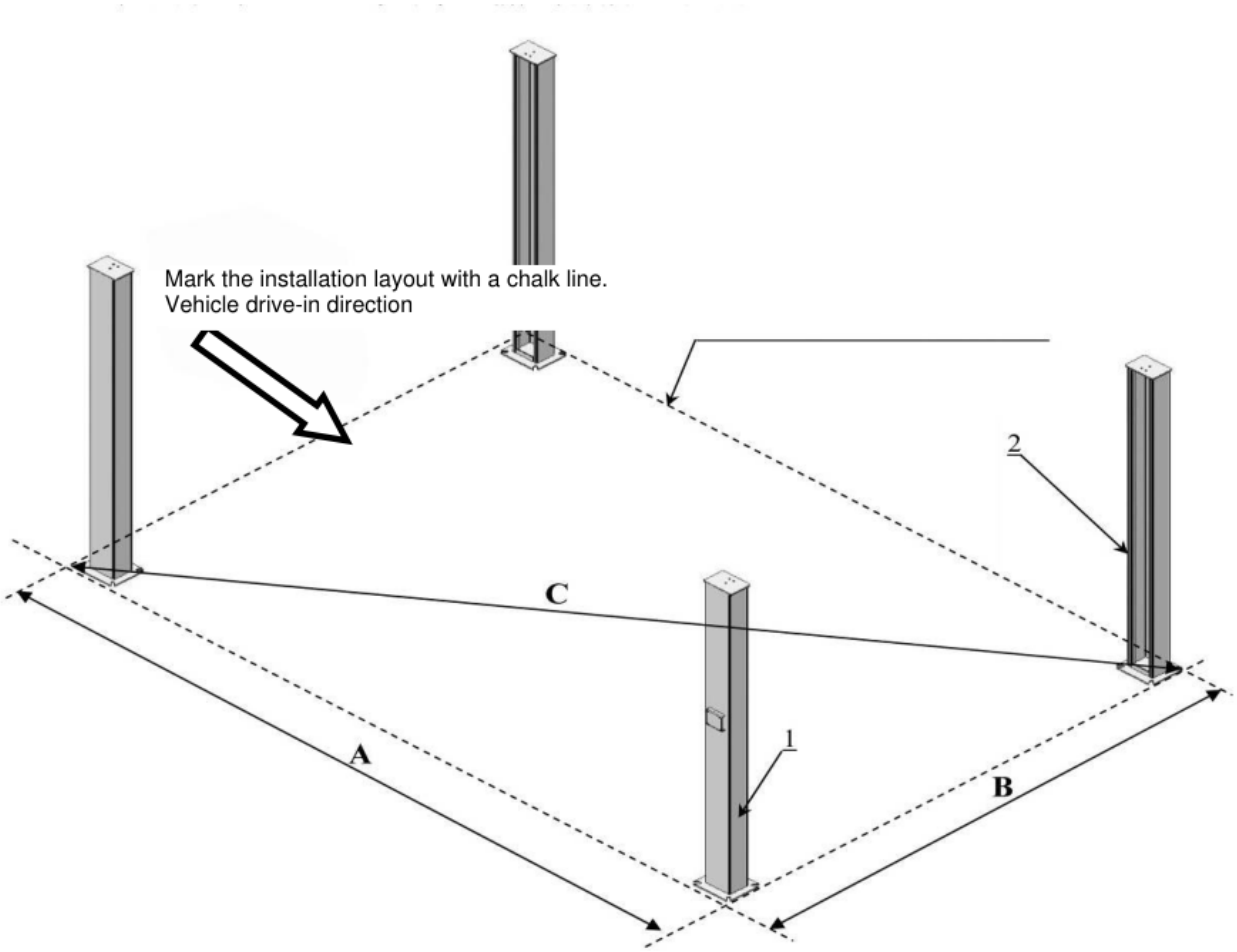
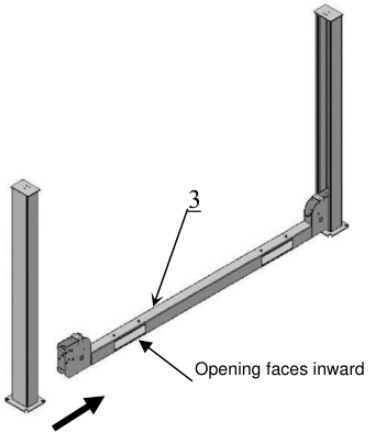


Fig. 1

Step D: Install the Crossbeams

Install the crossbeams in the columns as shown in Figures 14 and 15. Orient the designated openings toward the inside of the lift.

Check the component positions and keep hands and feet clear of moving or suspended parts.



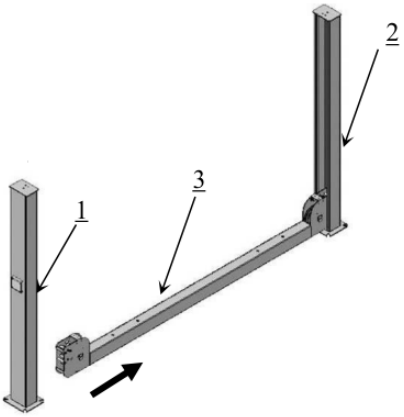


Fig. 14

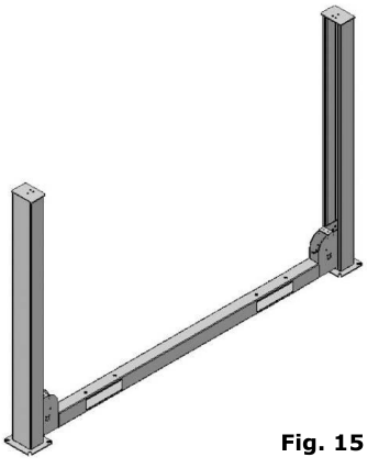
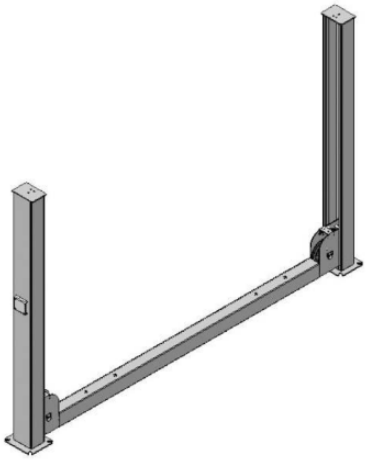


Fig. 15

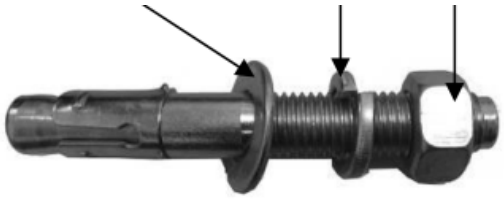


Step E: Install the Column Anchors

Prepare the anchor bolts, washers, lock washers, and nuts. Drill the holes with the specified masonry bit, clean them thoroughly, and install the anchors.

Provide at least 3-1/2 in. of anchor embedment. Leave the anchors loose until the columns have been checked for plumb and the runways installed. Final anchor torque is 111 ft-lb.

Fig. 16



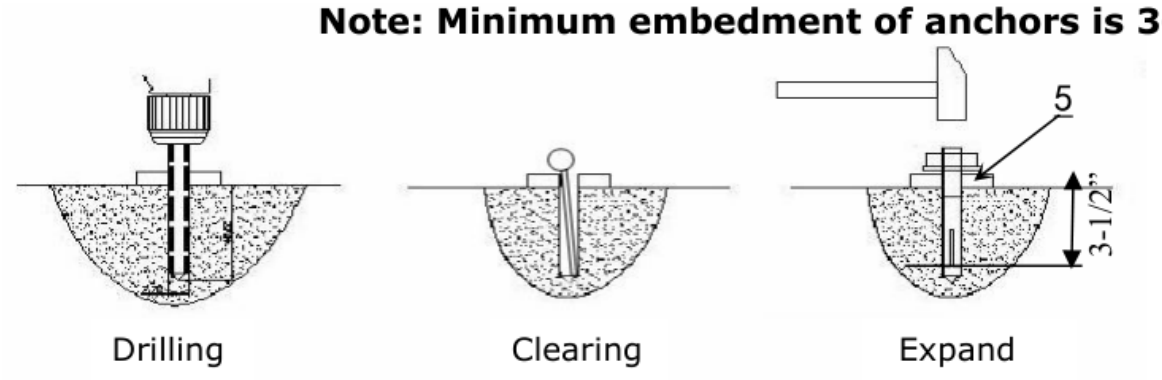


Fig. 17

Step F: Install the Safety Ladders

Remove the pulley safety covers and loosen the four upper safety-ladder nuts. Adjust the lower nuts to the same position.

Retract the crossbeam slack-cable lock, insert the safety ladder between the limit pins, raise it into position, and install the upper nuts.

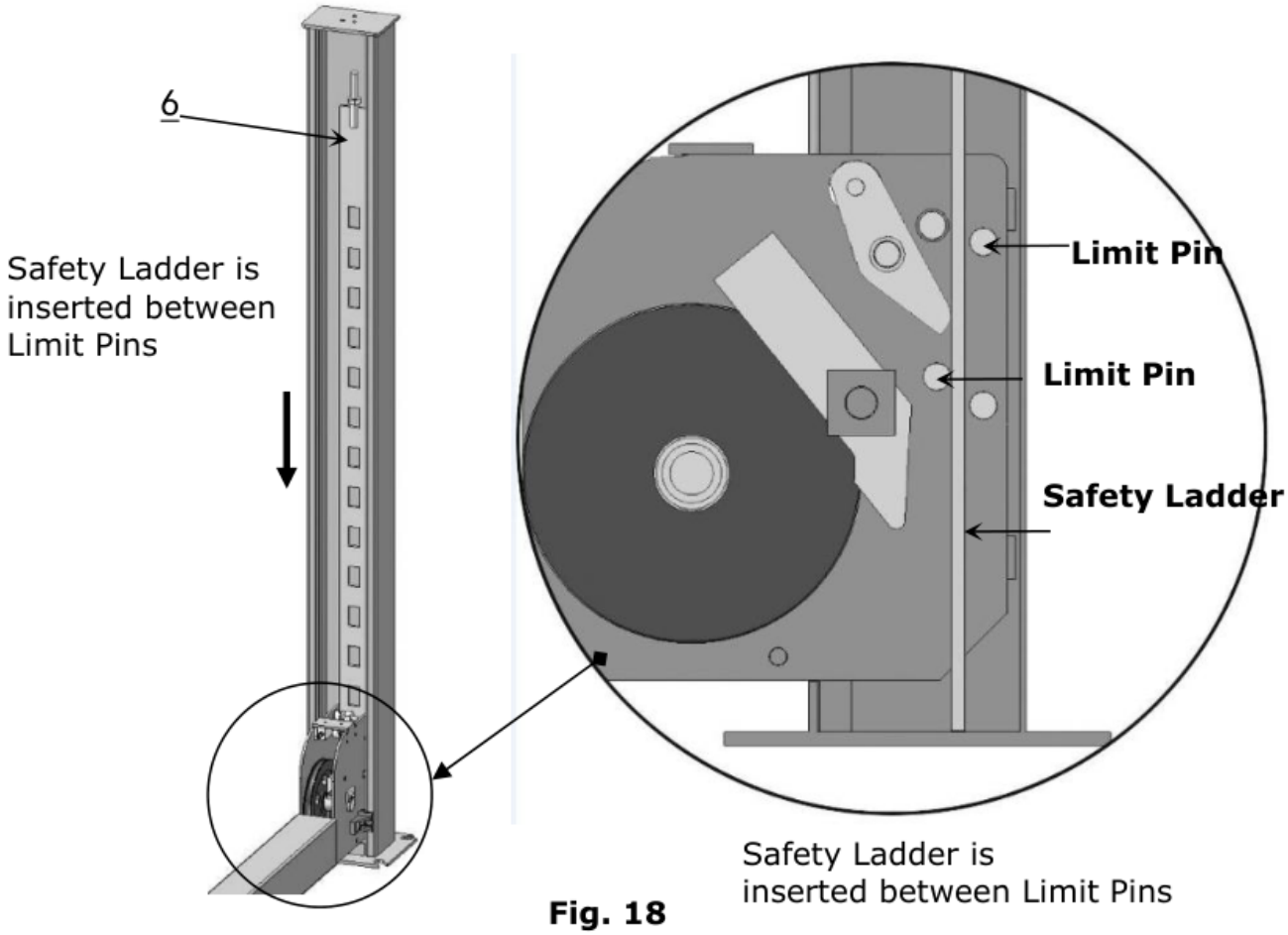


Fig. 18

Step F-G: Level the Crossbeams

Pass each safety ladder through its top-plate opening and tighten the two nuts. Set all four ladder heights equally.

Raise the crossbeams to the same convenient assembly height, approximately 39-3/8 in. Engage all four safety locks at the same ladder position before installing the runways.

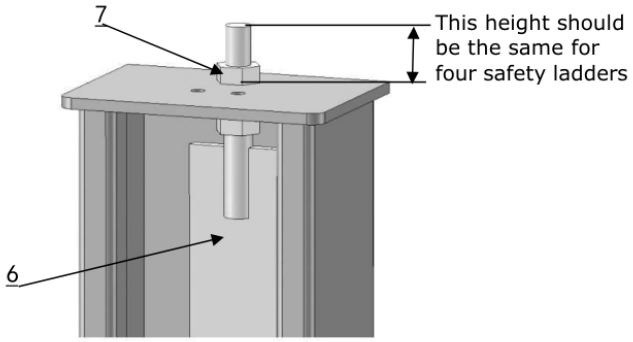


Fig. 19

Pass the safety ladder through the top-plate opening and tighten both nuts.

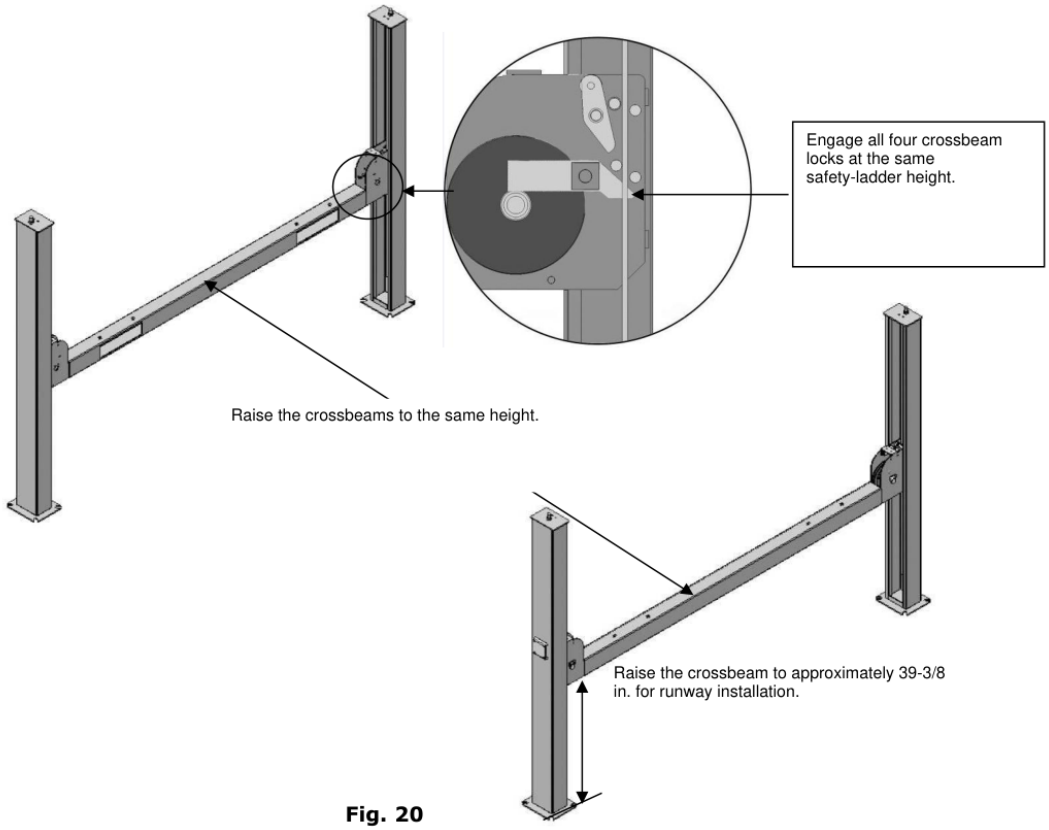
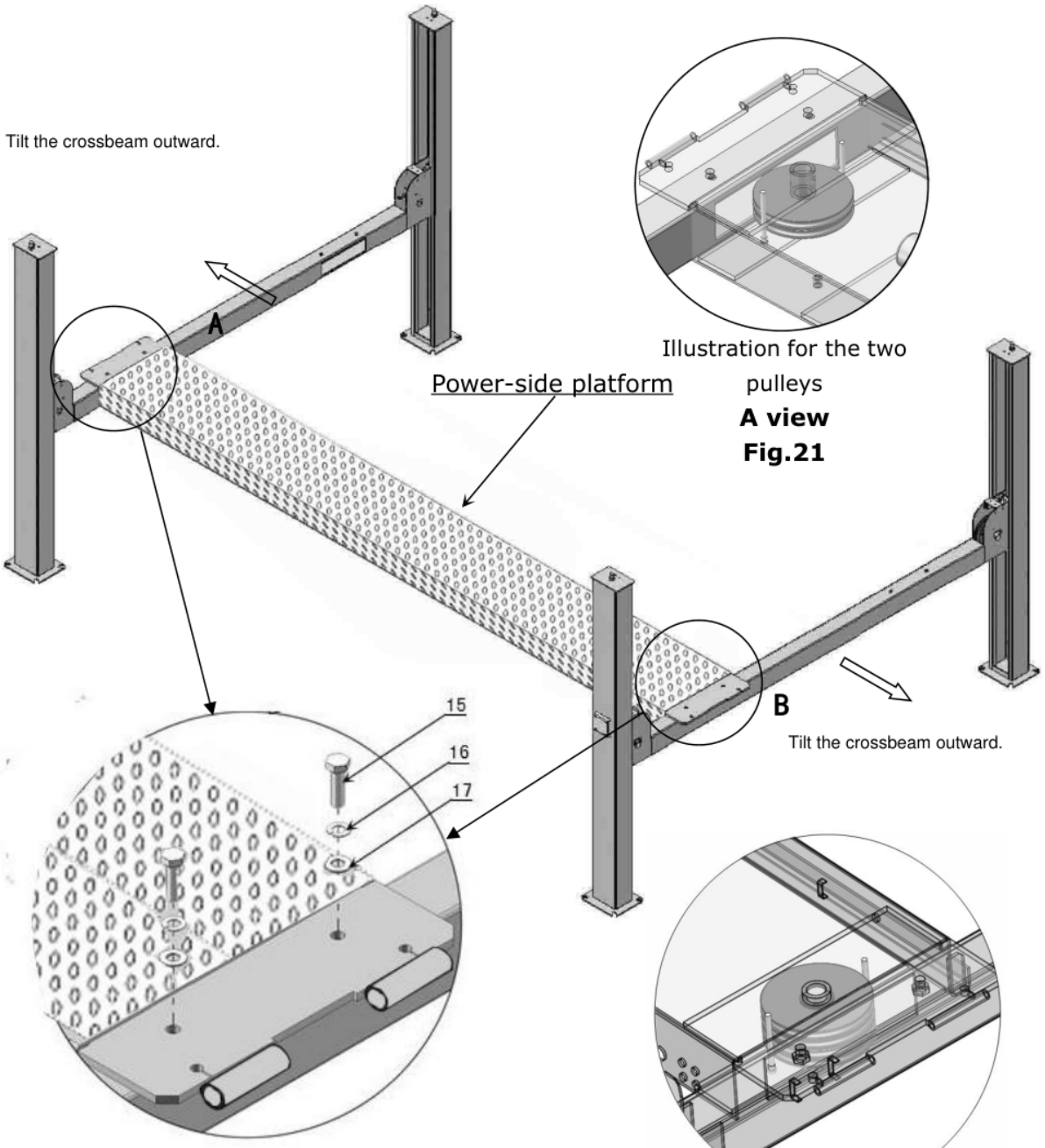


Fig. 20

Step H: Install the Power-Side Runway

Use suitable lifting equipment to place the power-side runway on the crossbeams. Tilt the crossbeams outward as shown so the pulley assemblies seat correctly.

Align the mounting holes and fasten the runway to the crossbeams with the specified M16*40 hex bolts and associated hardware.



Step I: Install the Offside Runway

Place the offside runway on the crossbeams, align the holes, and install the specified fasteners.

To adjust spacing, install the retaining lock plates beneath both ends of the offside runway. Use the specified M10*25 bolts, flat washers, lock washers, and nuts. Release the runway mounting bolts, reposition the unloaded runway, then secure it in the selected position.

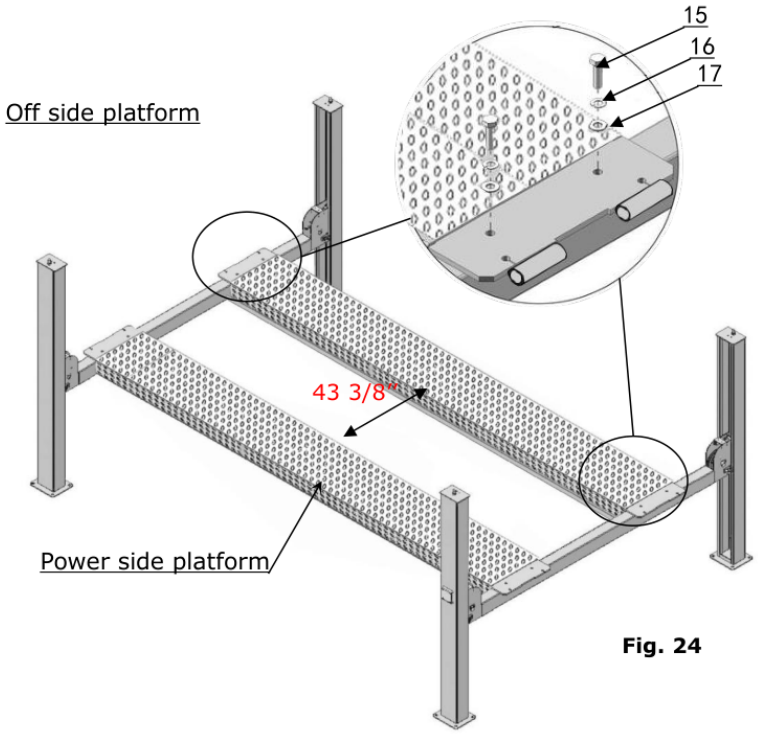
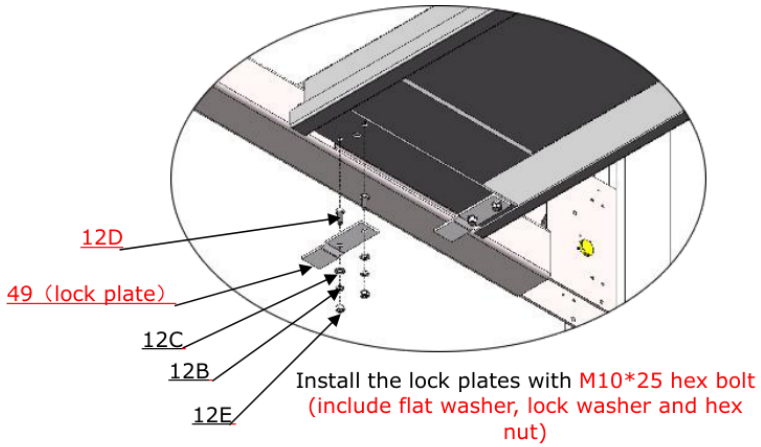


Fig. 24



Step I: Adjust Runway Spacing

The power-side runway remains fixed. Move only the offside runway when adjusting the space between runways.

For this model, the manual specifies 39 to 50-7/8 in. between runways. Check clearance and vehicle compatibility, and tighten all retaining hardware before loading the lift.

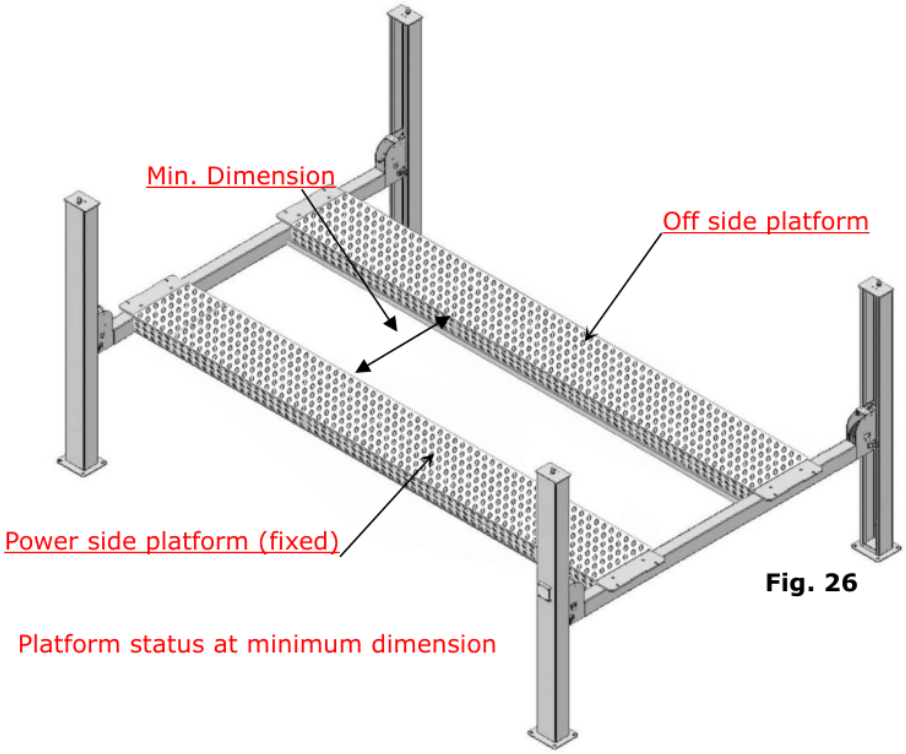
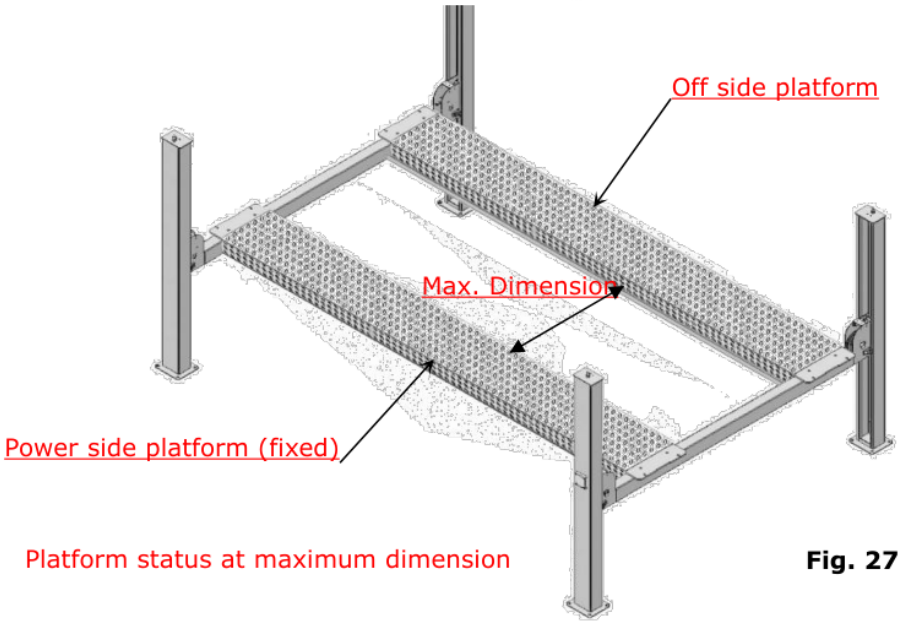


Fig. 26

Platform status at minimum dimension



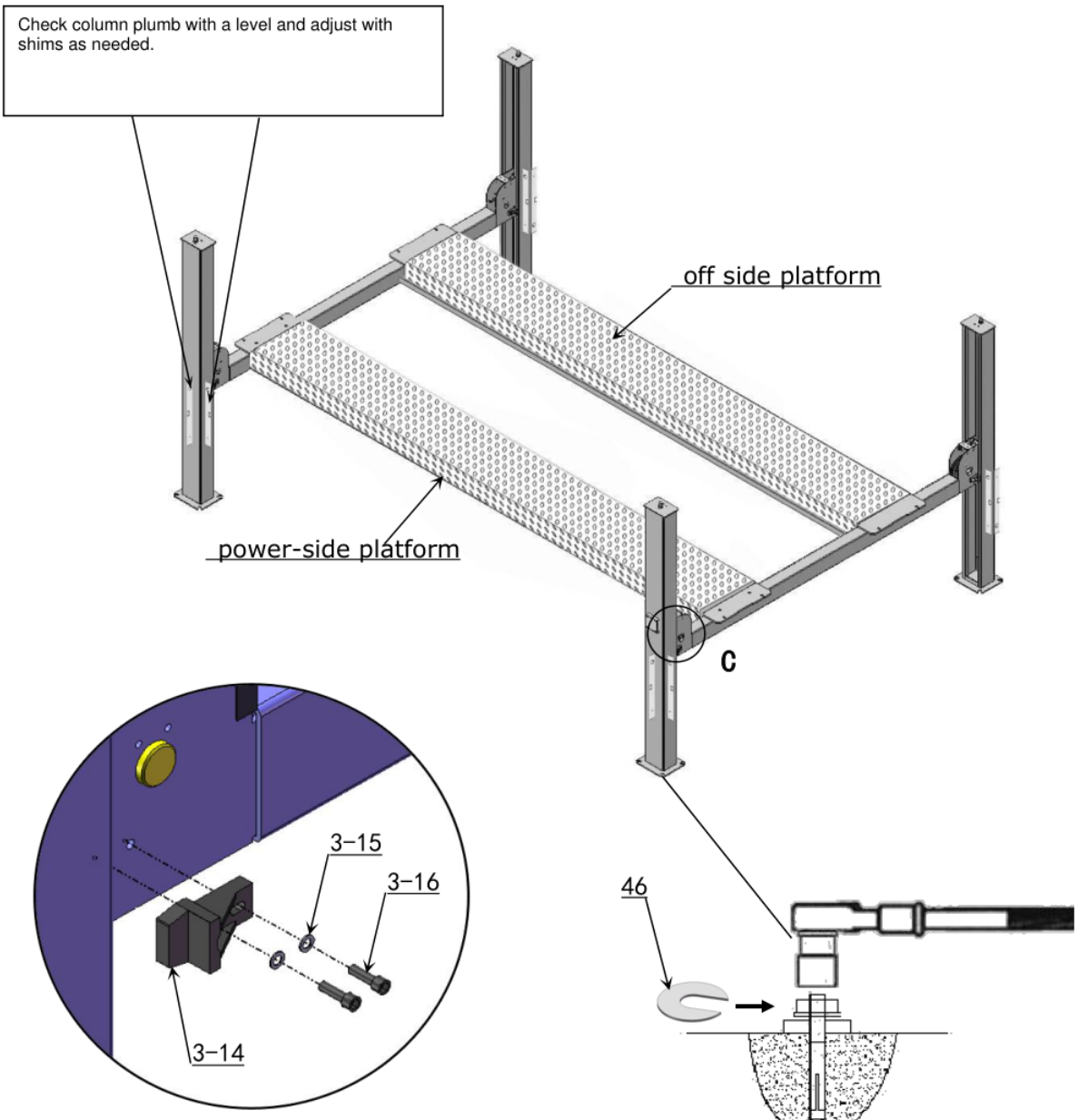
Platform status at maximum dimension

Fig. 27

Step J: Slide Blocks and Column Plumb

Install the offside runway slide blocks as shown in Figure 28. Use a level to check every column for plumb and install shims as needed.

Tighten the anchor bolts to 111 ft-lb. If an anchor cannot hold the specified torque, stop and correct the anchor or foundation before using the lift.



Install the slider block
C View
Fig. 28

Tighten the anchors with a ratchet and socket.

Note: Torque of Anchors is 150N.m(1328lbf.n)

Step K: Route the Lifting Cables

Route the numbered cables from the runway to the designated columns exactly as shown in Figure 30. Keep all cables in their pulley grooves.

Factory cable lengths including fittings are: cable 1, 148-5/8 in.; cable 2, 406-1/2 in.; cable 3, 211-3/4 in.; and cable 4, 343 in. Match each cable to its designated route.

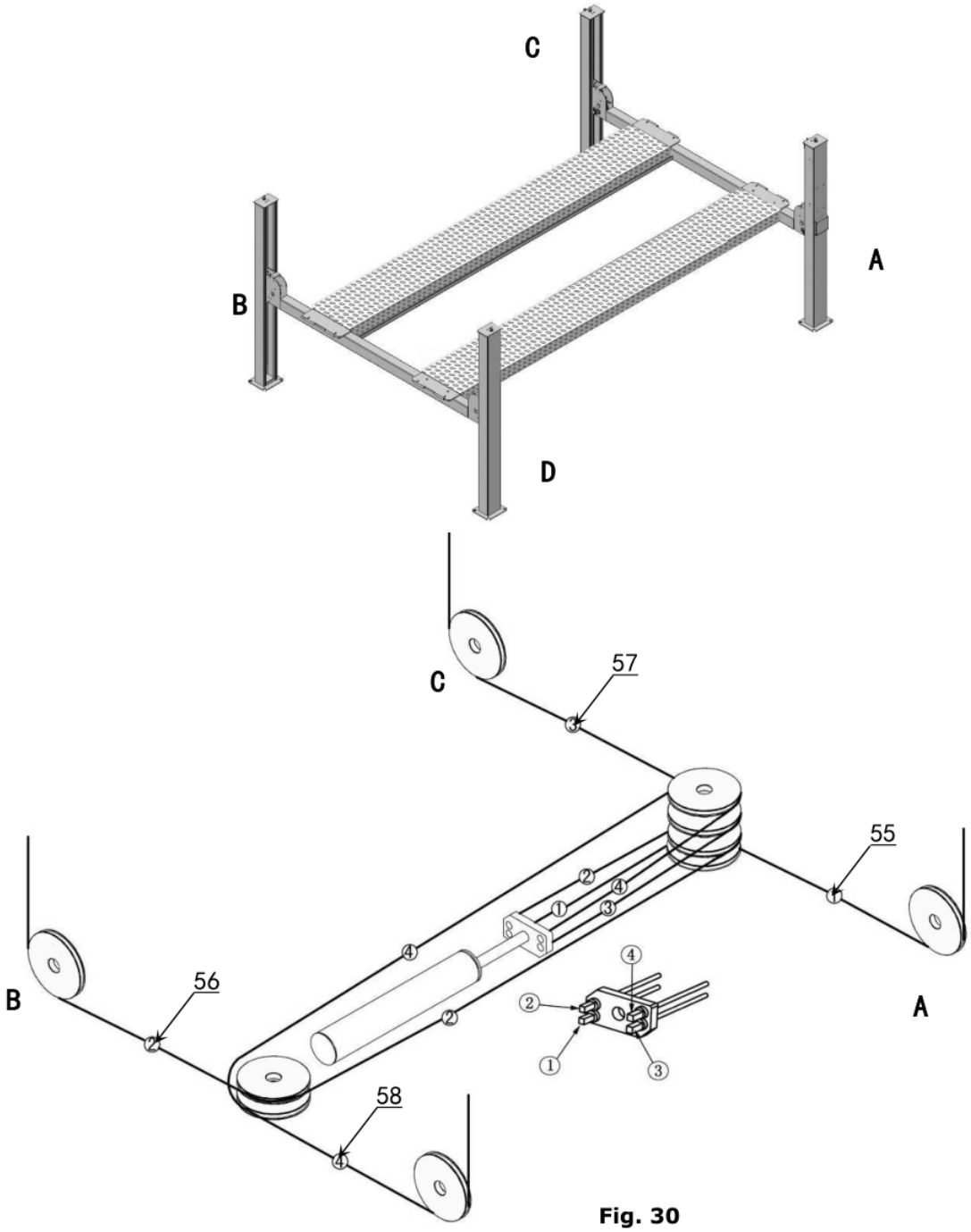
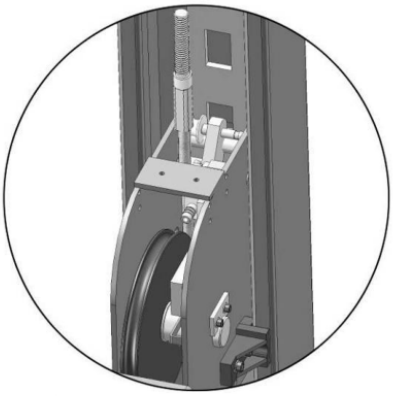


Fig. 30

Step K: Secure the Cable Connections

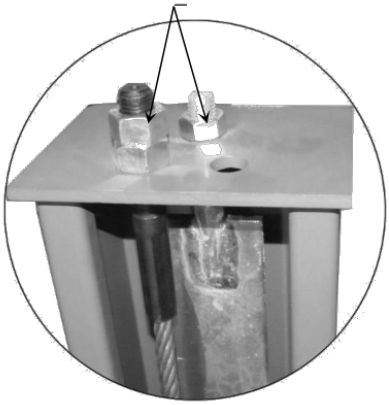
Pass the cables through the crossbeams and column top plates. Install the cable nuts and the cable-limit pins as shown in Figures 31 through 33.

Route each cable between the pulley and tension pulley. Verify correct routing and secure retention before tension adjustment.



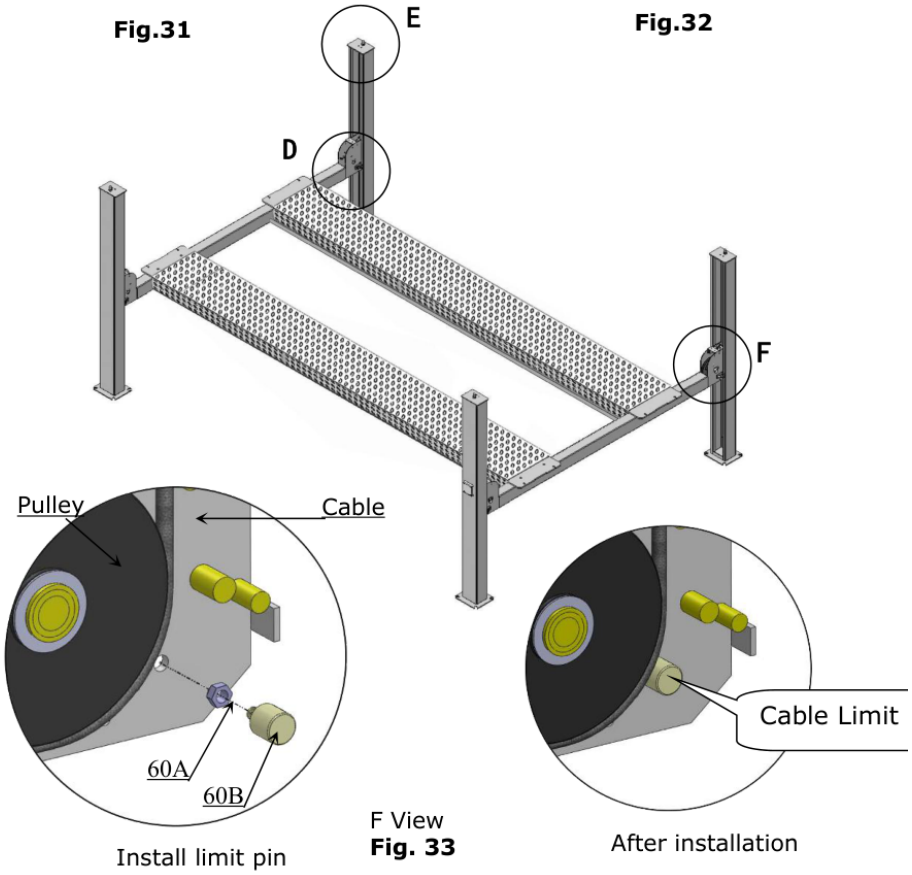
Route the cable between the pulley and tension pulley.

Fig.31



Pass the cable through the top plate and tighten the cable nut.

Fig.32



Install limit pin

F View
Fig. 33

After installation

Step K: Runway Cable References

Figures 34 through 36 show the cable arrangement beneath the runways. Use the numbered cable references to confirm the correct routes.

Check that the cables are not twisted, pinched, incorrectly crossed, or rubbing against hydraulic lines or other components.

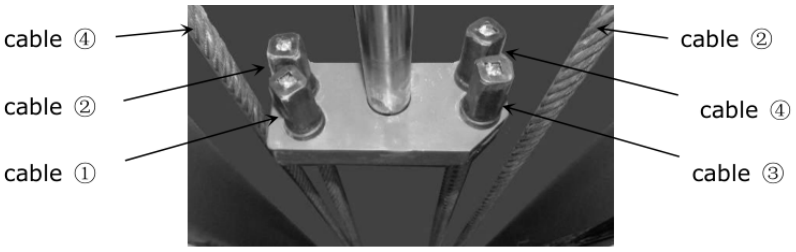


Fig. 34

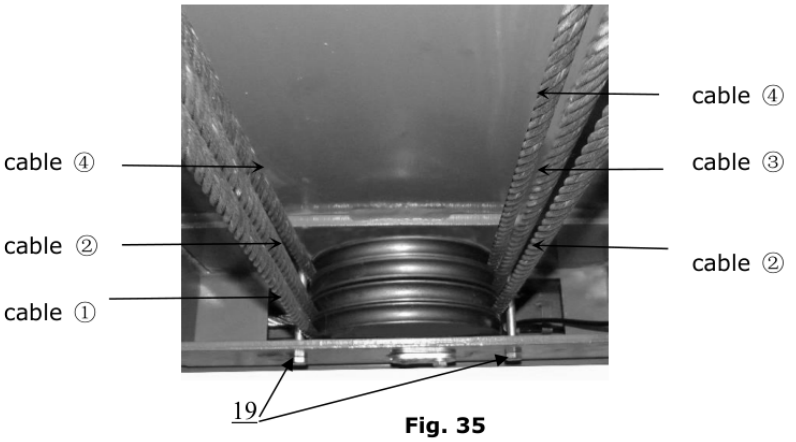


Fig. 35

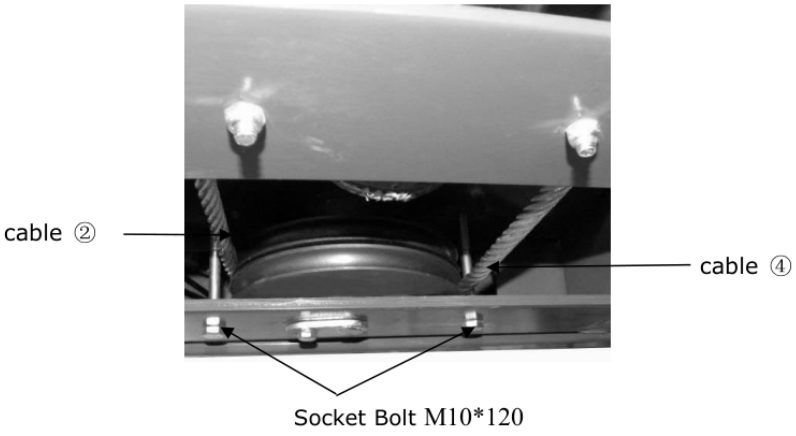


Fig. 36

Step L: Power Unit and Air Controls

Install the filter/regulator, manual air-control valve, and hydraulic power unit on the designated column with the specified hardware.

Follow the marked air-flow direction. The manual air-valve port marked P is the air inlet.

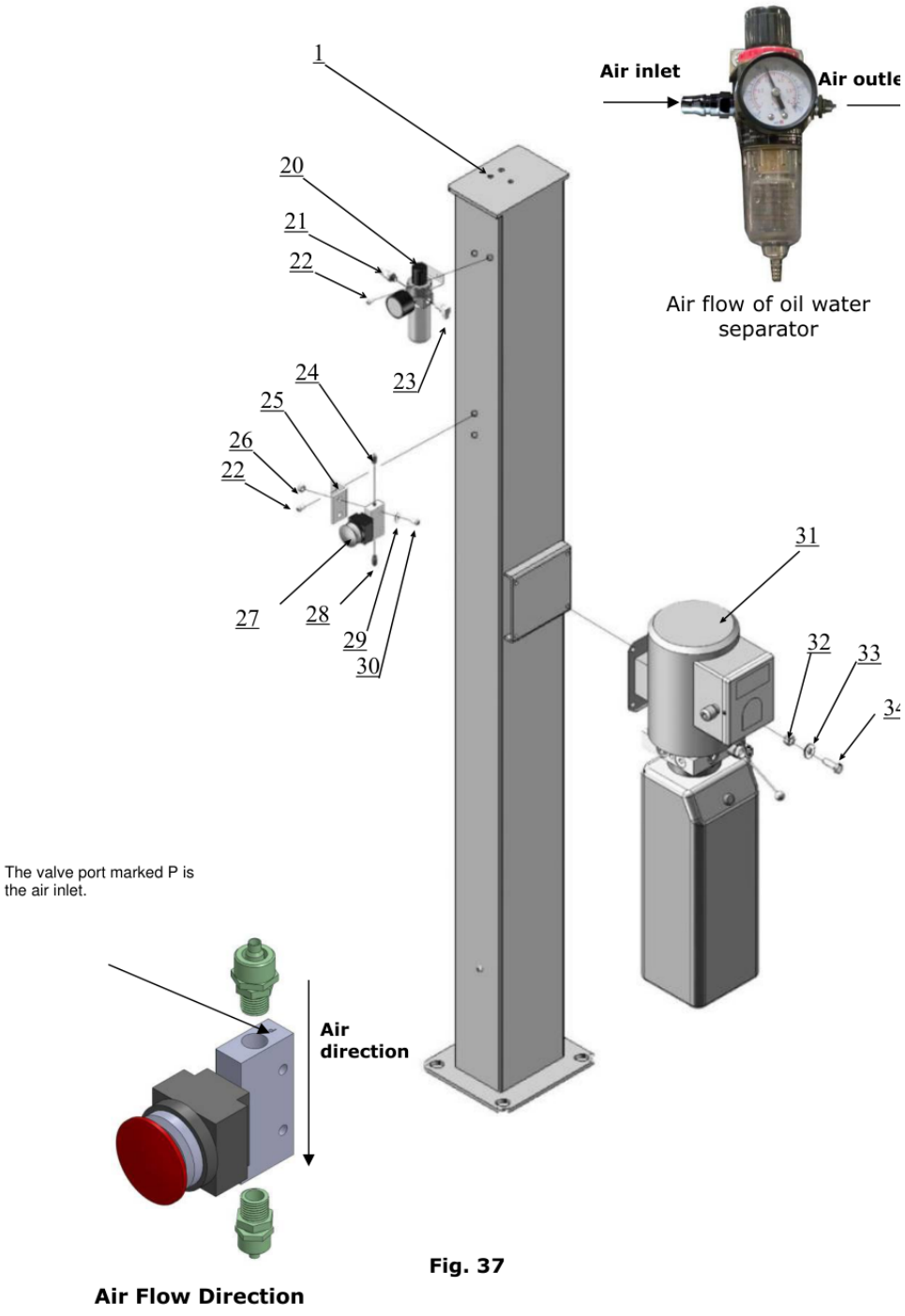


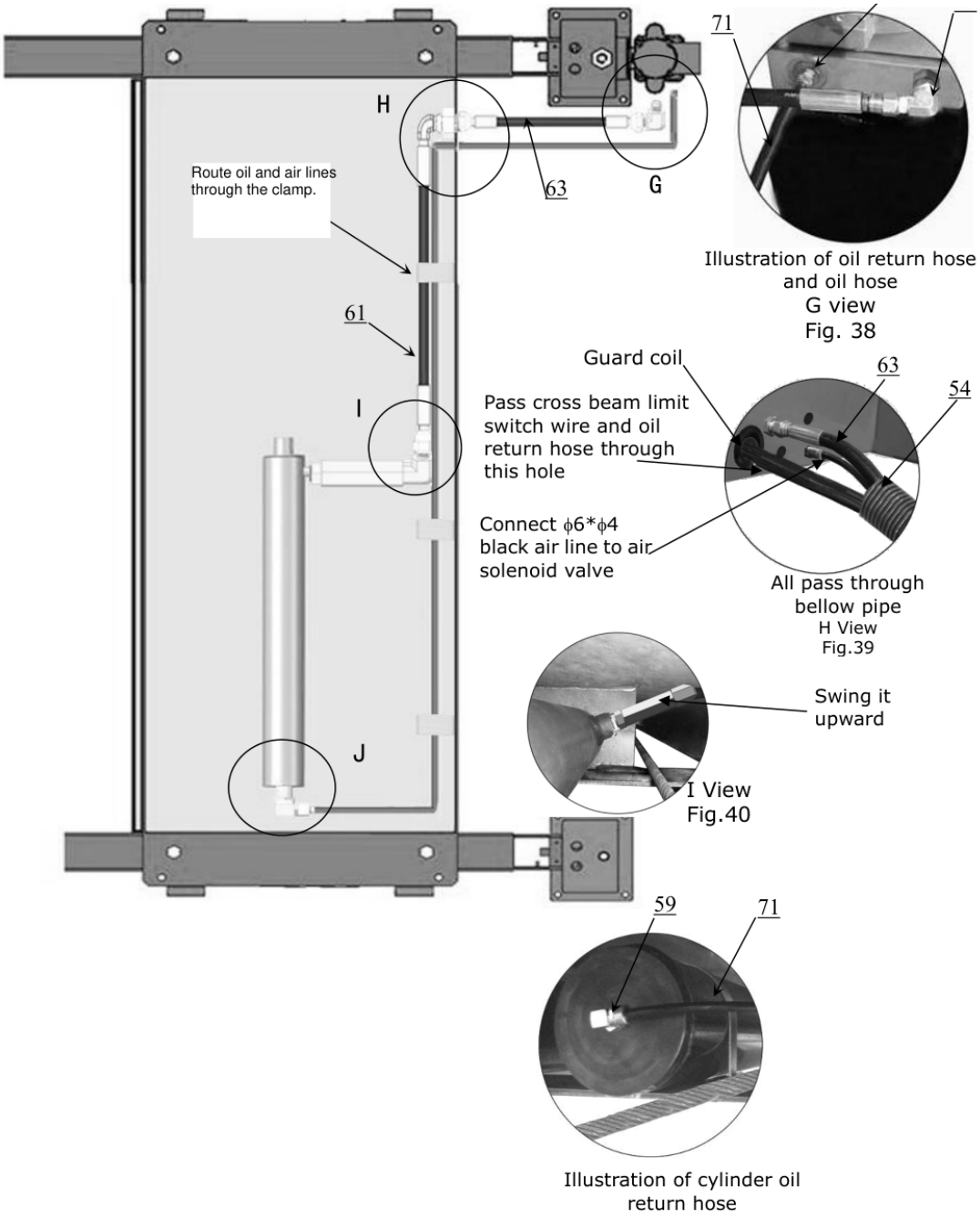
Fig. 37

Step M: Install the Hydraulic System

Route the hydraulic hoses and cylinder return line above the lifting cable. Turn the cylinder inlet fitting upward to prevent the cable from rubbing against the hoses.

Route the oil and air lines through their clamps and protective sleeves. Follow the illustrated paths for the crossbeam limit-switch wire and oil-return hose.

Keep ports and hose interiors clean, tighten all fittings, and check clearance from moving components.



Step N: Install the Air Lines

Connect the front and rear crossbeams with the supplied smaller black air line. Cut the tubing to the required length and route it through the retainers.

Cut the line between the designated retainers and install the T-fitting. Connect the smaller line to the air solenoid valve and check every fitting.

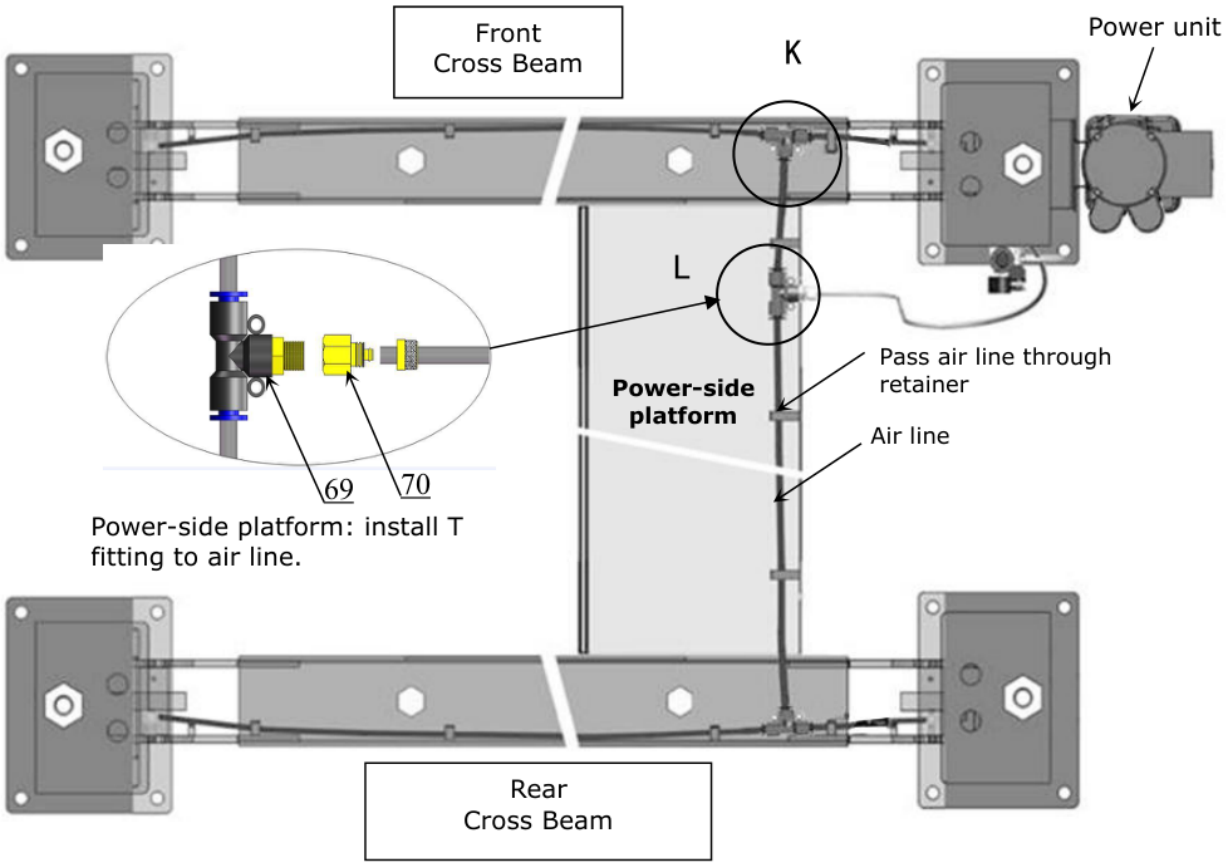
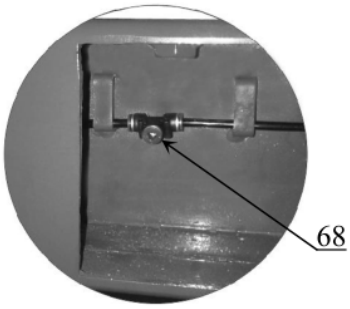
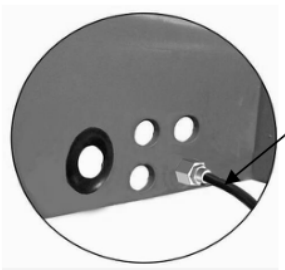


Fig.42



K view
Fig.43



L view
Fig.44

Step N: Connect and Set the Air Supply

Connect the filter/regulator to the manual air-control valve using the supplied larger black air line. Connect the incoming compressed-air source.

Provide 73 to 116 psi and set the regulator to 116 psi. Turn its adjustment clockwise to increase pressure or counterclockwise to decrease it. Check for leaks and confirm correct lock-release operation.

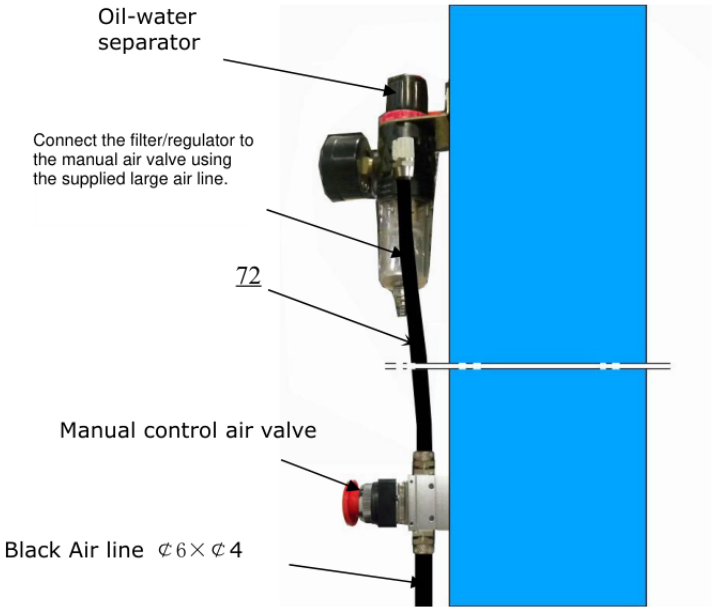


Fig. 45

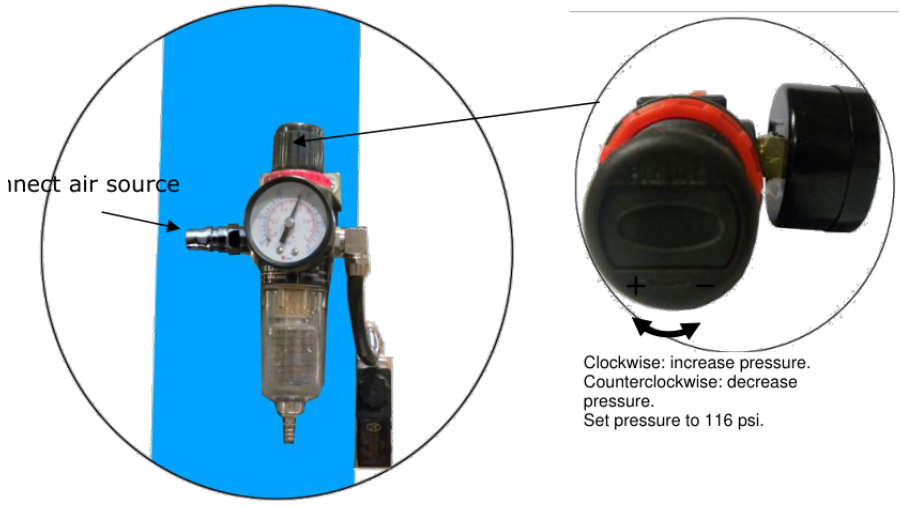


Fig. 46

Step O: Electrical Connections

A qualified electrician must make the electrical connections with the supply disconnected and secured. Follow the installed motor data plate and the single-phase circuit reference.

Connect the two 220V supply conductors to contactor terminals L1 and L3. Connect the green/yellow equipment grounding conductor to the designated motor grounding terminal.

Never connect the grounding conductor to a supply terminal. Do not operate with damaged wiring or unsecured electrical covers.

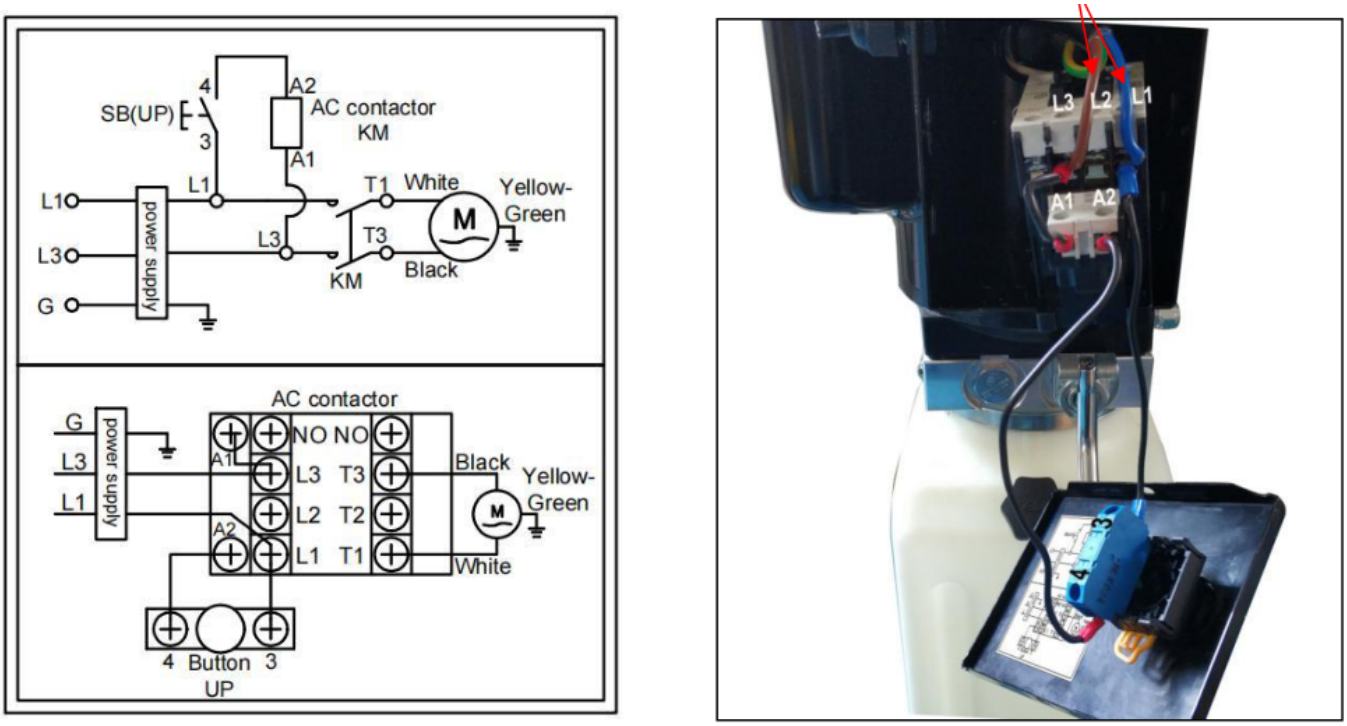


Fig. 47

Step P: Crossbeam Springs and Covers

Install the crossbeam springs and safety covers with the specified hardware shown in Figure 48.

Check the safety devices for free movement and correct engagement before replacing the covers.

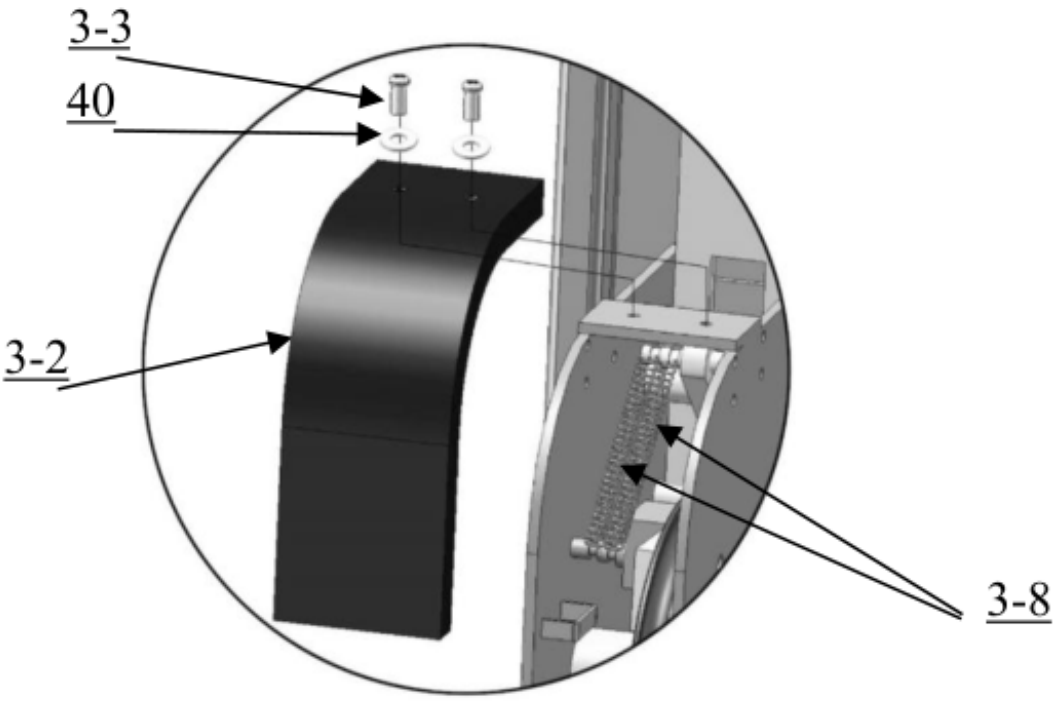


Fig. 48

Step Q: Install the Approach Ramps

Install the approach ramps and their pins, rollers, and retaining clips as shown in Figure 49. Use the ramp assembly designated for the alignment model.

Check that both ramps are securely retained and move correctly.

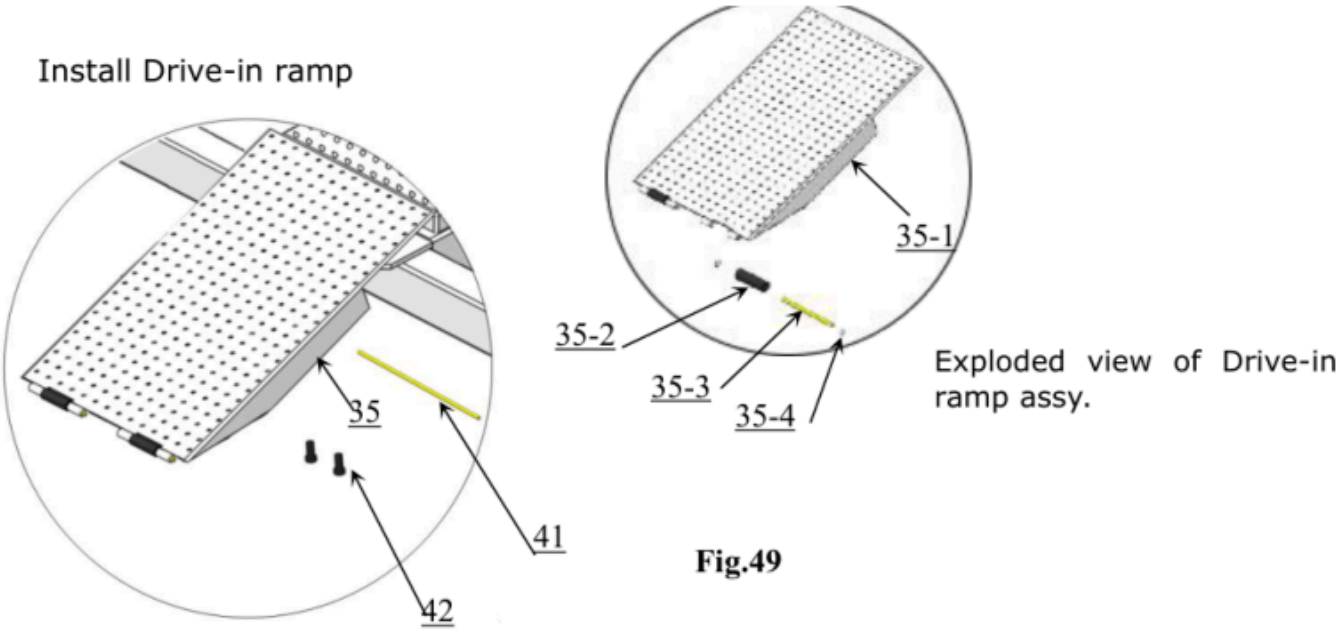


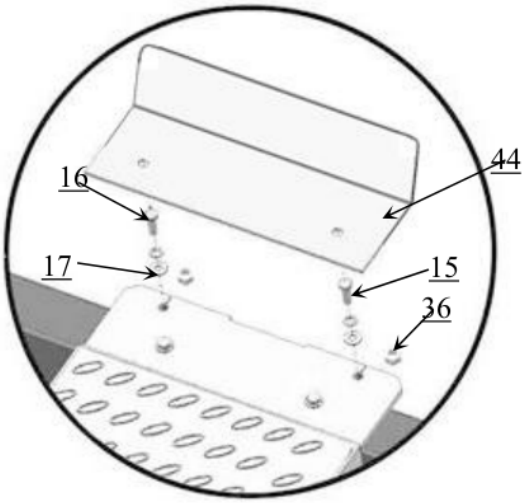
Fig.49

No	Pin no	Part name	QTY
35-1	11420003	Drive in ramp (PRO-12)	2
	11430002	Drive in ramp (QL4PHD12K,PRO-12AX)	2
35-2	11610667	Roller	4

Step R: Wheel Stops and Alignment Parts

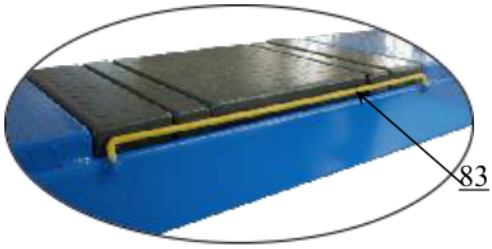
Install the tire stop plates with the specified hardware. Install the turnplate covers and adjustable blocks, then install the limit rods.

Confirm that all runway accessories are secure and that each stop or retaining component is installed correctly.



Install stop plate

Fig.50



After installing the turnplate cover and adjustable blocks, install the limit rod.

Lift Assembly

Model: QL4P12KHD

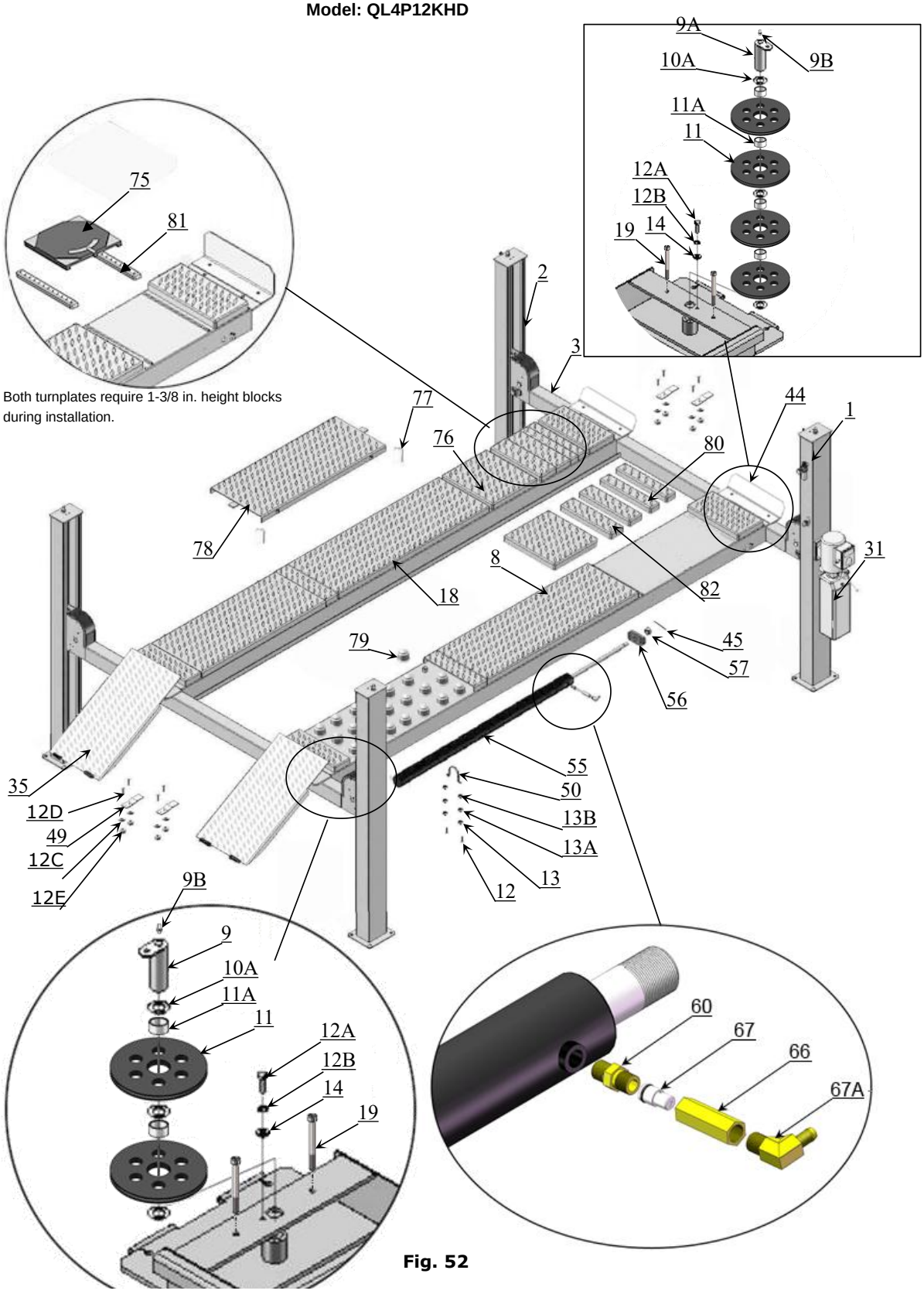


Fig. 52

Lift Parts List: Items 1-29

PARTS LIST FOR PRO-12, QL4P12KHD, PRO-12AX

Item	Part#	Description	PRO-12	QL4P12KHD	PRO-12AX
1	11420011A	Power-side Column	1	1	1
2	11420002	Offside Column	3	3	3
3	1104732001C	Cross Beam Assy.	2	2	0
	1104412001C	Cross Beam Assy.	0	0	2
5	10209059	Anchor Bolt 3/4*5-1/2	16	16	16
6	11410022	Safety Ladder	4	4	4
7	10420175A	Hex Nut M20	16	16	16
8	11440038	Power-side Platform	1	0	0
	11450002		0	1	1
9	1104093003A-01	Pulley Pin	1	1	1
9A	1104093002A-01	Pulley Pin	1	1	1
9B	10620064	Greasing Fitting	2	2	2
10	10476024	Pulley washer φ90*φ51*2	14	14	14
11	11476636	Pulley φ260*22	6	6	6
11A	1004094002	Bush φ50*φ55*21.8	6	6	6
11B	10420132A	Bronze Bush for Pulley φ41.3*φ35.1*20	4	4	4
12	10209043	Hex Bolt M8*20	10	10	10
12A	1004514007	Hex Bolt M10*20(level 8.8)	2	2	2
12B	10209039	Lock Washer φ10	2	2	2
12C	10209022	Flat Washer φ10	10	10	10
12D	1004014006	Hex Bolt M10*25(level 8.8)	8	8	8
12E	10209021	Hex Nut M10	8	8	8
13	10209034	Lock Washer φ8	2	2	2
13A	10209033	Flat Washer φ8	2	2	2
13B	10217002	Hex Nut M8	2	2	2
14	10209022	Flat Washer φ10	2	2	2
15	10420030	Hex Bolt M16*40	12	12	12
16	10420137	Lock Washer φ16	12	12	12
17	10420029	Flat Washer φ16	12	12	12
18	11440039	Offside Platform	1	0	0
	11440001		0	1	1
19	10600015	Socket Bolt M10*120	4	4	4
20	10420145	Oil-water Separator AFR-2000	1	1	1
21	1004334013	Quick Fitting (1/4NPT)	1	1	1
22	10209009	Round Head Bolt M6*8	4	4	4
23	10420076	90° Fitting	1	1	1
24	10420159	Straight Fitting for Air Line 6*8	1	1	1
25	11420160	Mounting Plate of Manual Control Valve	1	1	1
26	10420161	Nylok Nut M4	2	2	2
27	10420162	Manual Control Air Valve	1	1	1
28	10420163	Straight Fitting	1	1	1

Lift Parts List: Items 30-65

Item	Part#	Description	PRO-12	QL4P12KHD	PRO-12AX
30	10420164	Round Head Bolt M4*30	2	2	2
31	071102	Manual Power Unit	1	1	1
32	10209005	Nylok Nut M8	14	14	14
33	10209004	Rubber Ring φ8*20*3	4	4	4
34	1061K050	Hex Bolt M8*30	4	4	4
35	1042003	Drive-in Ramp assy.	2	0	0
	86010649		0	2	2
36	10209066	Hex Nut M16	4	4	4
37	11620043	Drive-in Ramp pulley pin	4	4	4
38	10209010	Clip Ring φ10	8	8	8
39	10420156	Protecting Ring φ24	1	1	1
40	10420045	Flat Washer φ6	20	20	20
41	11420004	Pin for Drive-in Ramp	2	2	2
42	10420005	Set screw M5*8	4	4	4
43	10440501	Part Box	1	0	0
	10450501		0	1	1
44	11420031-1	Tire stop plate	2	2	2
45	10201005	Cotter Pin φ4*50	1	1	1
46	10620065	Shim 1mm	20	20	20
	10201090	Shim 2mm	20	20	20
47	10209056	Nylok Nut M10	4	4	4
48	11420217	Cable limit pin	4	4	4
49	11420007	Lock plate	4	4	4
50	11420012A	Cylinder fixing ring	1	1	1
51	10420012	Cylinder	1	1	1
52	11460078	Cable connecting plate	1	1	1
53	10420014	Hex nut M27	1	1	1
54	10420016B	Bellow pipe 19/16"×1/16"×59 1/16"	1	1	1
55	10440078	No.① Cable	1	1	0
	10450005		0	0	1
56	10440081	No.② Cable	1	1	0
	10450008		0	0	1
57	10440079	No.③ Cable	1	1	0
	10450006		0	0	1
58	10440080	No.④ Cable	1	1	0
	10450007		0	0	1
59	10420166	90° Fitting	1	1	1
60	11420243	Transition Fitting	1	1	1
61	10440042	Oil Hose (straight+90°)	1	1	1
62	10420120	Extended Straight Fitting (with Nut)	1	1	1
63	10207026	Oil Hose L=59 13/16”	1	1	1
64	10209060	90° Fitting	1	1	1

Parts and Crossbeam Assembly

Item	Part#	Description	PRO-12	QL4P12KHD	PRO-12AX
66	10420245	Straight Fitting	1	1	1
67	10420247	Compensation Valve	1	1	1
67A	10201020	90° Fitting	1	1	1
68	10420124	T-Fitting	2	2	2
69	10420242	T-Fitting	1	1	1
70	10420241	Straight Fitting	1	1	1
71	10420195A	Oil Return Hose φ6*φ4*244 1/16”(black)	1	1	1
	10610114	Oil Return Hose φ6*φ4*248” (black)	0	0	1
71A	10420131B	Air Line φ6*φ4*φ307 7/8”	1	1	1
	10450009	Air Line φ6*φ4*φ311”	0	0	1
72	10420167A	Air Lineφ8*φ6*φ18 1/8”	1	1	1
73	11476635	Pulley	4	4	4
75	1040101	Turnplate(Optional)	0	2	2
76	11430004-01	Turnplate cover	0	2	2
77	11520037	Pin	0	4	4
78	11450003	Slip plate	0	2	2
79	10420157	Steel ball set	0	60	60
80	11480033	Turnplate block 483*76*50	0	4	4
81	11480045	Turnplate block 483*35*35	0	4	4
82	11480082	Turnplate block 483*141*50	0	4	4
83	11440090	Turnplate block bar	0	4	4

CROSS BEAM

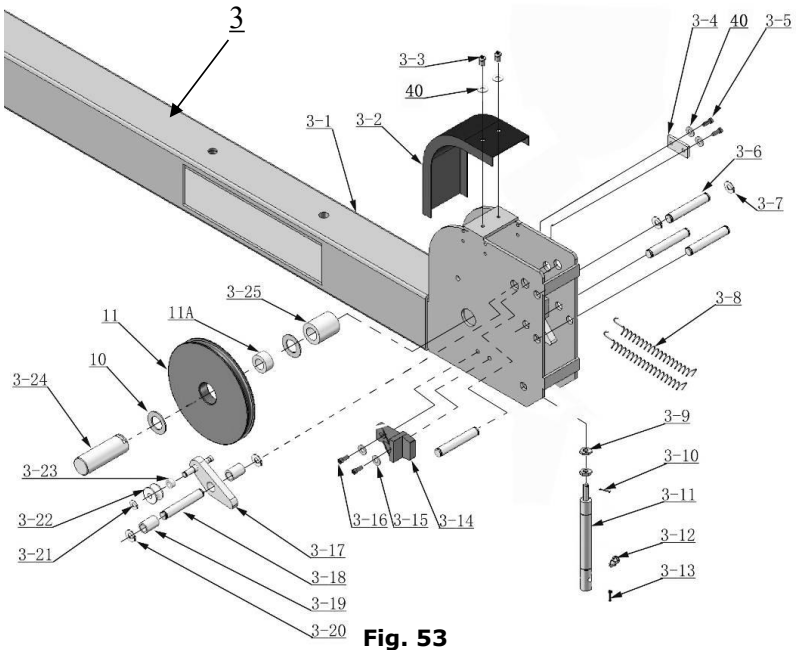


Fig. 53

Crossbeam Parts List

Parts list for Cross Beam				
Item	**Part#**	**Description**	**Qty**	**Note**
3-1	11420254B-01	Cross Beam for QL4P12KHD	2	
	11480023B	Cross Beam for PRO-12AX	2	
3-2	10420051B	Protective cover	4	
3-3	10209009	Round Head Bolt M6*8	8	
3-4	11420044	Limit Block	4	
3-5	10420138	Socket Bolt M6*16	8	
3-6	11420038	Pin φ16	12	
3-7	10420037	Clip Ring φ16	24	
3-8	10480113	Spring	8	
3-9	10209021	Hex Nut M10	8	
3-10	10420049	Split Pin φ2*16	4	
3-11	10420048	Air Cylinder	4	
3-12	10420047	Fitting for Air Cylinder	4	
3-13	10420046	Cotter Pin φ4*30	8	
3-14	10420042	Slider block	8	
3-15	10209033	Flat Washer φ8	24	
3-16	10420043	Socket Bolt M8*20	16	
3-17	11420175	Slack-cable safety lock (left & right)	2/2	
3-18	11420171	Pin φ19	8	
3-19	11420172	Pin Bush	8	
3-20	10206019	Clip Ring φ19	16	
3-21	10209010	Clip Ring φ10	4	
3-22	10420035	Tension Pulley	4	
3-23	11420174	Spacer	4	
3-24	11420041A	Pulley Pin	4	
3-25	11420040A	Pulley Bush	4	

Hydraulic Cylinder Assembly

CYLINDERS (10420012)

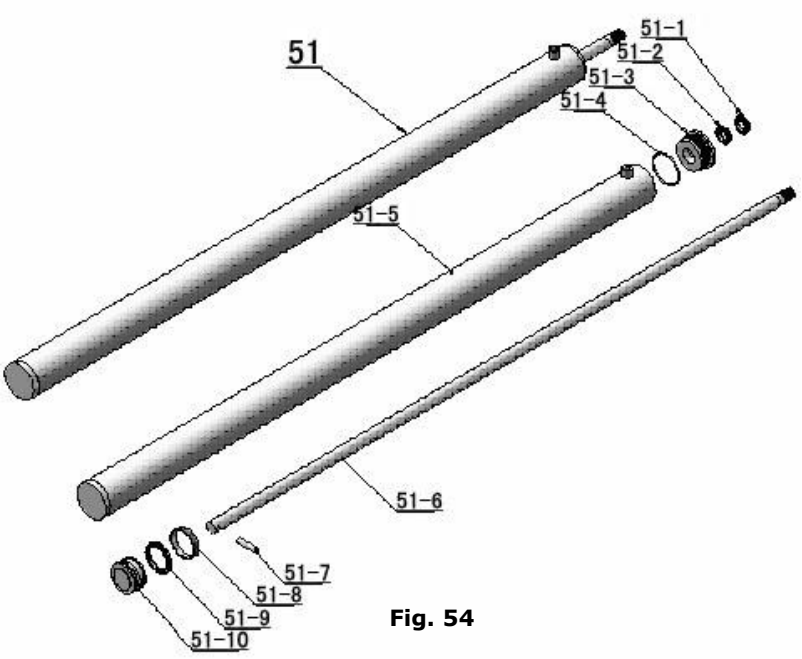


Fig. 54

Parts list for Cylinder				
Item	**Part#**	**Description**	**Qty**	**Note**
51-1	10420059	Dust Ring	1	
51-2	104016001	Y- Ring USH	1	
51-3	11420061	Head Cap	1	
51-4	10420062	O- Ring	1	
51-5	11420063	Bore Weldment	1	
51-6	11420064	Piston Rod	1	
51-7	11420065	Pin	1	
51-8	10420066	Support Ring	1	
51-9	10420067-01	Y- Ring USH	1	
51-10	11420068	Piston	1	

Hydraulic Power-Unit Reference

Figure 55 identifies the oil return and outlet ports, check valve, release valve and handle, relief valve, and throttle valve. Use these component references during service.

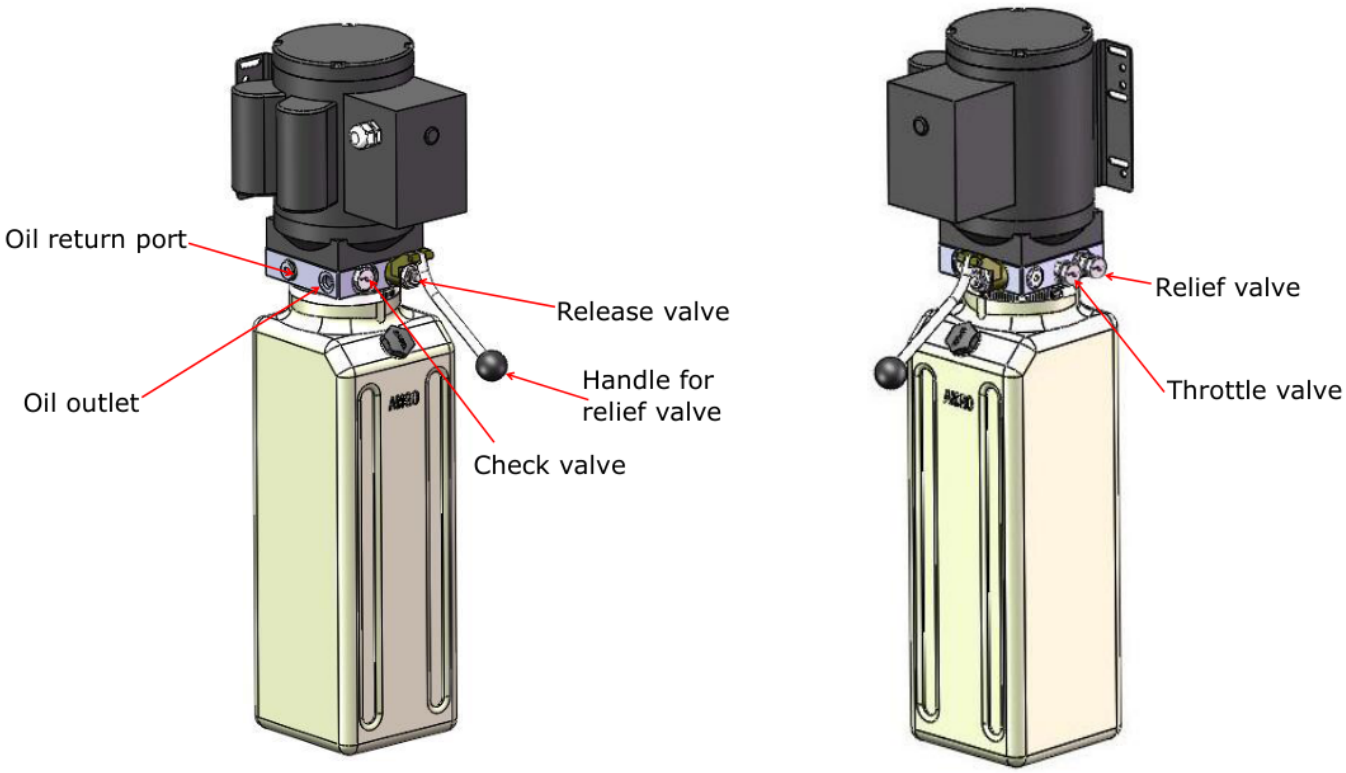


Fig 55

Oil Fill and First Test

Fill the reservoir with approximately 2.9 US gallons of clean ISO VG 46 anti-wear hydraulic oil. Keep dirt, water, and other contaminants out of the system.

Press UP briefly to tension the cables. Confirm that every cable is seated in its pulleys and that the routes are correct.

Use the release-valve handle to lower the crossbeams onto the safety ladders. Adjust the safety-ladder nuts until the runways are level and all four locks engage at the same height.

Cable Adjustment and Load Test

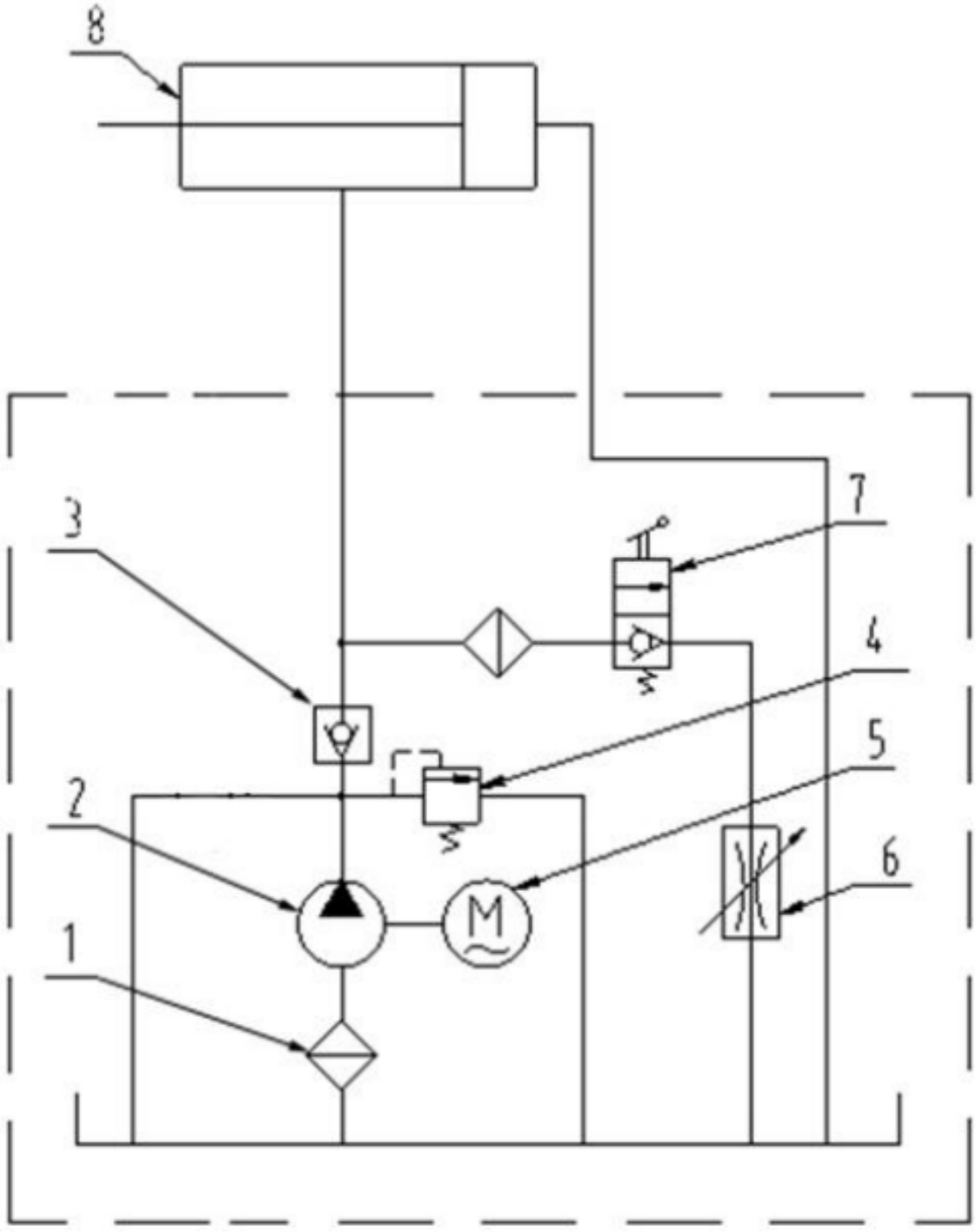
Adjust cable tension with the cable nuts. Cycle the lift several times until all four locks engage and release together. Tighten each pair of cable nuts securely against each other.

Adjust the clearance between the column and crossbeam slide block to approximately 5/64 in., then tighten the slide-block bolt.

Test with a load within the 12,000 lb capacity. Begin near the floor and verify synchronized movement and lock operation before a full-height test. Stop and correct uneven travel, leaks, or safety faults before use.

Hydraulic Circuit

Figure 56 shows the hydraulic circuit. Component key: 1. Filter; 2. Gear pump; 3. Check valve; 4. Relief valve; 5. Motor; 6. Throttle valve; 7. Release valve; 8. Four-post lift cylinder.



Operating the Lift

1. Clear the lift area, lower the runways fully, and confirm that the air supply is on.

2. Drive carefully onto the runways, center the vehicle, and apply the parking brake. Keep everyone out of the vehicle and off the lift.

3. Turn on power and press UP. Raise the vehicle slightly, stop, and verify stability before continuing to the desired height.

4. Use the hydraulic release-valve handle to lower onto the mechanical locks. Confirm that all four locks are engaged at the same height before beginning service.

Lowering the Vehicle

1. Remove tools, trays, stands, and other obstructions from beneath and around the lift. Keep everyone except the operator clear.

2. Confirm that the compressed-air supply is on. Press UP for approximately 3 to 5 seconds to unload the mechanical locks.

3. Press the manual air-valve control to release the locks. With the other hand, operate the hydraulic release-valve handle to lower the runways in a controlled manner.

4. When the lift is fully lowered, drive the vehicle off carefully and turn off power.

Inspection and Maintenance

Inspect the lift before each use. Check anchors, cables, pulleys, hydraulic and air lines, controls, and safety devices. Stop operation and correct any defect before returning the lift to service.

Monthly: retorque anchors to 111 ft-lb. Lubricate the cables and inspect all cable connections, bolts, and pins. Check hydraulic lines for wear or leaks. Lubricate rollers and safety devices with 90-weight gear oil or an equivalent lubricant.

If an anchor cannot hold the specified torque, do not use the lift until the anchor and installation are corrected.

Every six months: inspect moving components for wear, interference, or damage. Check and adjust cable tension for level lifting and verify column plumb.

Use ISO VG 46 anti-wear hydraulic oil. Change the oil as needed, depending on use and oil condition. Complete a full raising-and-lowering cycle each day to help purge air. Protect piston rods from impacts and scratches and keep rods and dust seals clean.

Disconnect and secure the electrical and compressed-air supplies before maintenance. Qualified personnel must perform electrical and hydraulic repairs.

Troubleshooting

Stop using the lift until the cause of a malfunction is corrected. Disconnect and secure the supplies before service. Qualified personnel must perform repairs.

SYMPTOM	POSSIBLE CAUSE / CORRECTIVE ACTION
Motor does not run	Inspect the UP button, supply, wiring, motor, contactor, and height-limit switch. Repair the fault or replace the failed component.
Motor runs; lift does not rise	Check motor operation, pump, release valve, relief/check valves, and oil level. A qualified technician must correct electrical or hydraulic faults.
Lift does not hold position	Inspect the release valve, relief/check valves, cylinder, and fittings for leaks. Repair or replace affected parts.
Lift rises slowly	Check for a blocked line, low supply voltage, air in the oil, pump leakage, or excessive load. Correct the cause and restore the specified oil level.
Lift will not lower	Check lock engagement, compressed-air supply, air cylinders, release valve, and hydraulic circuit. Raise slightly to unload the locks before releasing them; repair failed components.

Disposal and Service Information

When the lift can no longer be used safely, remove it from service and dispose of it in accordance with applicable local requirements.

For parts, service, and warranty assistance, contact Quick Lift USA. Have the model and serial number available.

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

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