

Model No. SAE-P48

4 post Parking Lift

Single Point Manual Release

Lifting Capacity 8,000 lbs

**Installation & Operation &
Maintenance Instructions**



Important Note

1. This equipment can not be installed, operated or repaired without reading instructions.
2. Electricity must be hooked up by certified electrician.
3. Do not use this equipment beyond its rated capacity.

TABLE OF CONTENTS

1. Packing, transport and storage	5
1.1 Packing.....	5
1.2 Transport.....	5
1.3 Storage.....	5
2. Description of the machine	6
3. Technical specifications	7
4. Safety	9
4.1 General warnings.....	9
4.2 Risks for people	9
4.3 Personnel crushing risks	9
4.4 Risk of the vehicle falling from lift.....	9
4.5 Slipping risks	10
4.6 Electrocutation risks	10
4.7 Risks resulting from improper lighting	10
4.8 Risks of breaking component during operation.....	10
4.9 Risks for unauthorized uses.....	10
4.10 Risks during vehicle lifting and working	10
5. Installation	11
5.1 Tool required.....	11
5.2 Checking for room suitability.....	12
5.3 Lighting.....	12
5.4 Installation surface.....	12
5.5 Site layout.....	12
5.6 Connect the platforms and beams	13
5.7 Mount on the top post plate and fix safety ratchets	14
5.8 Mount on lifting platforms	14
5.9 Fix transfer bar	16
5.10 Routing steel cable.....	17
5.11 Installation of power unit.....	17
5.12 Connection of hydraulic hoses	18
5.13 Lock system assembly.....	18
5.14 Make electrical hookup to power unit	19
5.15 Oil filling and bleeding.....	20
5.16 Final installation	20
5.16.1 Runway leveling adjustment	20
5.16.2 Locking position adjustment	21
5.16.3 Accessory installation	21
5.16.4 Caster kit installation	21
5.17 Anchoring columns.....	21
5.18 Check before start-up	22
5.18.1 General checks.....	22
5.18.2 Steel cable for proper installation	22
5.18.3 Safety lock for proper installation	22
5.18.4 Hydraulic system for proper operation	22
5.19 Check with load	22
6. Operation and use	23
6.1 Controls of lift	23
6.1.1 Lifting	23
6.1.2 Standing	24
6.1.3 Lowering.....	24
6.2 Moving with caster kit	24
7. Maintenance	25
7.1 Ordinary maintenance.....	25
7.2 Periodic maintenance.....	25

8. Troubleshooting	26
9. Parts list	27
9.1 Explode drawing and parts list.....	27
9.2 Transverse beam and parts list	29
9.3 Power-side runway and parts list	31
9.4 Hydraulic line and parts list	33
10. Special notes	34
10.1 Environmental damage.....	34
10.2 Dismantling.....	34
10.3 Disposal	34
10.4 Noise declaration.....	35

Foreword

Notes on the operating instructions

The present ORIGINAL OPERATING INSTRUCTIONS are designed to provide sufficient instruction for the safe operation of the product. The information is provided clearly and concisely. The chapters are arranged by letter and the pages are numbered continuously.

Our products are subject to ongoing development. Our company reserves the right to alter the design, equipment and technical features of the system. No guarantee of particular features of the product should therefore be assumed from the present operating instructions.

Safety notices and text mark-ups

Safety instructions and important explanations are indicated by the following graphics:



DANGER!

Indicates an extremely hazardous situation. Failure to comply with this instruction will result in severe irreparable injury and even death.



WARNING!

Indicates an extremely hazardous situation. Failure to comply with this instruction may result in severe irreparable injury and even death.



CAUTION!

Indicates a hazardous situation. Failure to comply with this instruction may result in slight to medium injury.

NOTE

Indicates a material hazard. Failure to comply with this instruction may result in material damage.

1. Packing, transport and storage

All packing, lifting, handling, transport and unpacking operations are to be performed exclusively by expert personnel with knowledge of the lift and the contents of this manual.

1.1 Packing

The packing of the lift is delivered in following components:

- 1 base unit packed in a steel frame, wrapped up in non-scratch material, including all the accessories.
- 1 power unit packed in a carton box.

1.2 Transport

See Fig 1, packing can be lifted or moved by lift trucks, cranes or bridge cranes. In case of slinging, a second person must always take care of the load, in order to avoid dangerous oscillations.

During loading and unloading operation, goods must be handled by vehicles or ships.

At the arrival of the goods, verify that all items specified in the delivery notes are included. In case of missing parts, possible defects or damage due to transport operations.

If finding missing parts, possible defects or damage due to transport, one should examine damaged cartons according to <<Packing List.>> to verify the condition of damaged goods and missing parts, also the person in charge or the carrier must be immediately informed.

The machine is heavy goods! Don't take manpower load and unload and transporting way into consideration, the safety of working is important.

Furthermore, during loading and unloading operation goods must be handled as shown in the picture. (Fig 1)



Fig 1

1.3 Storage

The machine equipment should be stocked in the warehouse, if stocked outside should do the disposal well of waterproof.

Use box truck in the process of transport, use container storage when shipping.

The control box should be placed perpendicularly during the transport; and prevent other goods from extrusion.

The temperature for machine storage: -10°C-- 40°C

2. Description of the machine

The lift is suitable for lifting motor vehicles having maximum weight as described in the nameplate on the power side column of the lift. The electro hydraulic operation is described in detail in chapter 8.

This chapter describes the lift's principal elements, allowing the user to be familiar with the machine. As shown in figure 2, the lift is composed of four columns: 1 power-side column (1), 3 off-side columns (2), two platforms: the power-side platform (3) and the off-side platform (4), and two transverse beams (5), anchored to the ground by means of the column base plates.

Raising motion is carried out by pushing the lifting button on the power unit (6) to operate a power unit delivering the hydraulic fluid to cylinders to act on cable lifting system. Lowering motion is controlled by pressing the lowering lever on the power unit and carried out under the weight of the load lifted.

The automatic back-up lock holds on the lift in the elevated position, can be released by pressing the latch release lever (7). The slack cable lock in each end of transverse beam can hold on the lift in event of cable slackening and/or failure. The caster kit (8) can be ordered as an option to move the lift.

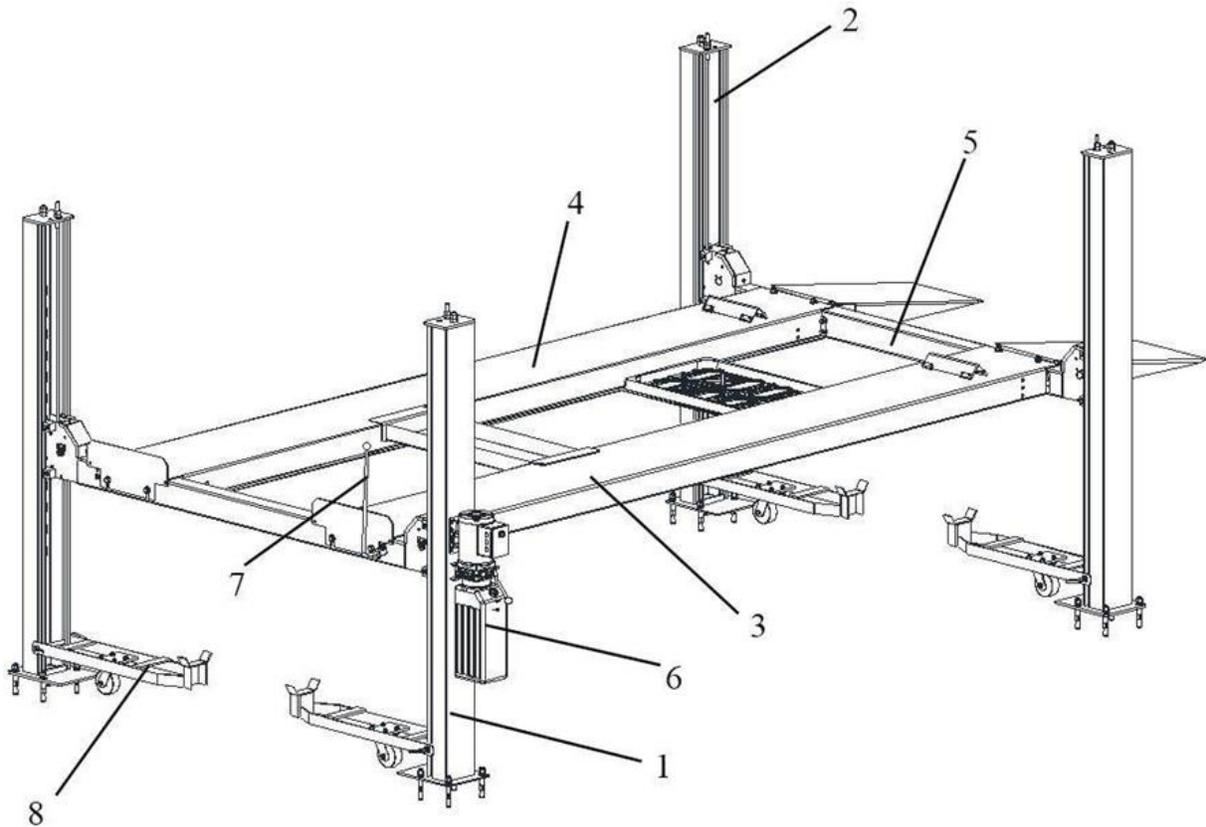


Fig. 2

3. Technical specifications

CAPACITY	8,000 lbs (3,600kg)
Max. lifting height with no pad extension	86 15/16" (2209mm)
Min. adaptor height	4 15/16" (125mm)
Overall height	96 1/16" (2440mm)
Overall width	113 3/4" (2890mm)
Lifting time	≤60 S
Lowering time	30-40 S
Noise level	<85 dB(A)/1m
Working temperature	41°F - 104°F
Voltage	110V/60Hz/1PH
Power	2.2KW /3HP
Breaker	30A
Hydraulic Fluid Requirement	3-5 Gallons AW32/AW46
Average weight of package	1587 lbs (720kg)

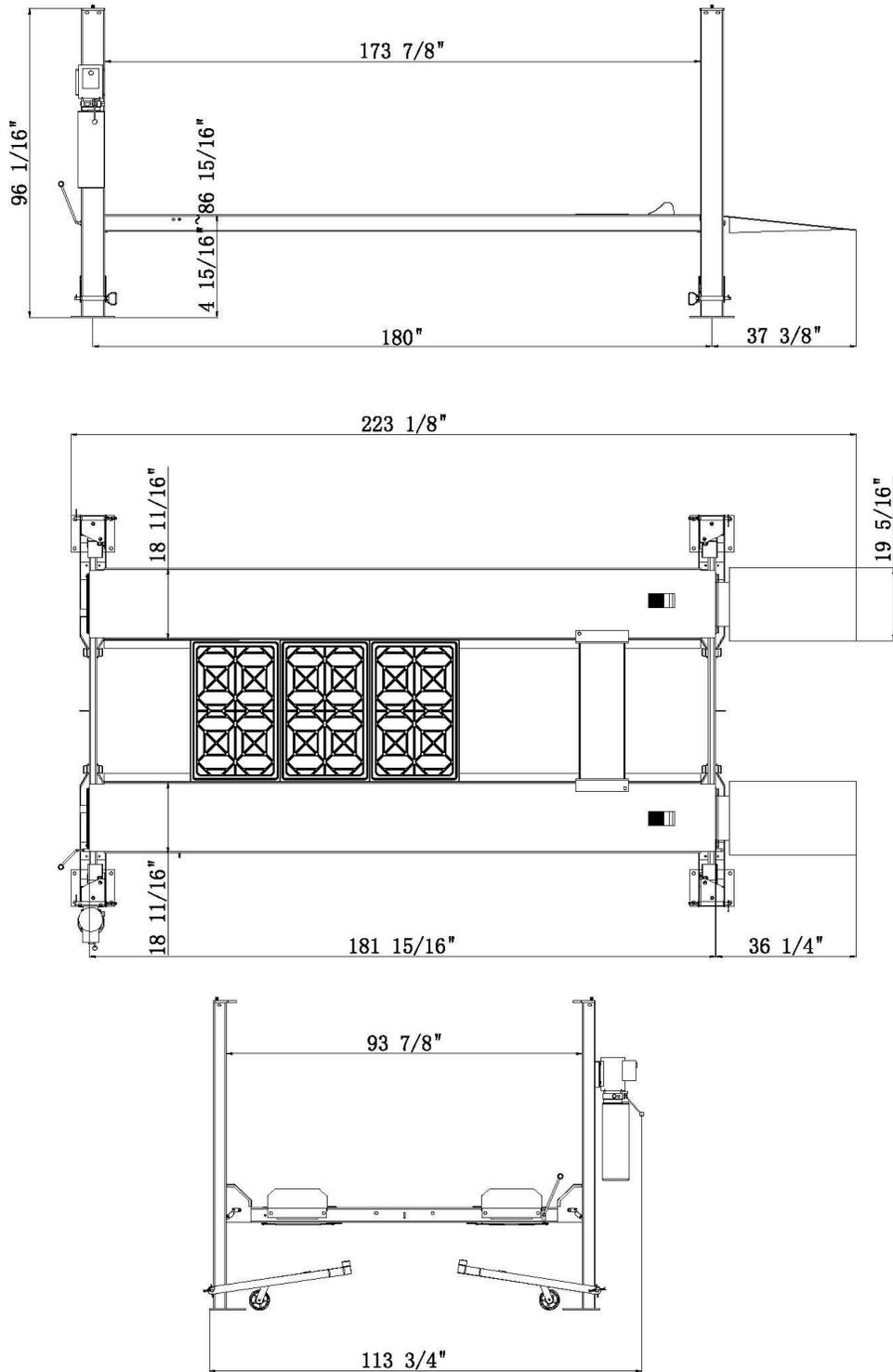


Fig. 3

4. Safety

Read this chapter carefully and completely because it contains important information for the safety of the operator and the person in charge of maintenance.

The lift has been designed and built for lifting vehicles and making them stand above level in a closed area, any other use is forbidden.

The manufacturer is not liable for possible damages to people, vehicles, or objects resulting from an improper or unauthorized use of the lift.

For operator and people safety, a safety area at least 3 feet away from the lift must be vacated during lifting and lowering. The lift must be operated only from the operator's control site in this safety area.

Operator's presence under the vehicle, during working, is only admitted when the vehicle is lifted and the safety lock is engaged.

Never use the lift when safety devices are off-line. People, the lift and the vehicles lifted can be seriously damaged if these instructions are not followed.

4.1 General warnings

The operator and the person in charge of maintenance must follow accident-prevention laws and rules in force in the country where the lift is installed.

Any use of the lift other than that herein specified can cause serious accidents to people in close proximity of the machine.

They also must carry out the following:

- Neither remove nor disconnect hydraulic, electric or other safety devices;
- Carefully follow the safety indications applied on the machine and included in the manual;
- Observe the safety area during lifting;
- Be sure the motor of the vehicle is off, the gear engaged and the parking brake put on;
- Be sure only authorized vehicles are lifted without exceeding the maximum lifting capacity;
- Verify that no one is on the runways during lifting or standing.

4.2 Risks for people

All risks the personnel could run, due to an improper use of the lift, are described in this section.

4.3 Personnel crushing risks

During lowering of runways and vehicles, personnel must not be within the area covered by the lowering trajectory. The operator must be sure no one is in danger before operating the lift.

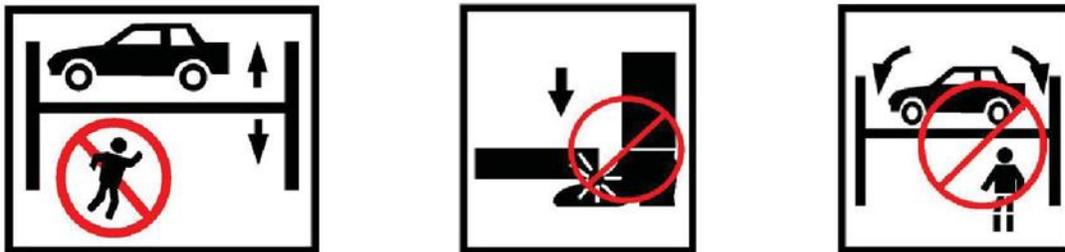


Fig. 4

4.4 Risk of the vehicle falling from lift

Vehicle falling from the lift can be caused when the vehicle is improperly placed on platforms, and when its dimensions are incompatible with the lift or by excessive movement of the vehicle.

In this case, keep immediately away from the working area.



Fig. 5

4.5 Slipping risks

The risk of slipping can be caused by oil or dirt on the floor near the lift.

Keep the area under and around the lift clean. Remove all oil spills.

4.6 Electrocuting risks

Avoid use of water, steam, and solvent, varnish jets in the lift area where electric cables are placed and, in particular, next to the electric panel.



Fig. 6

4.7 Risks resulting from improper lighting

Make sure all areas next to the lift are well and uniformly lit, according to local regulations.

4.8 Risks of breaking component during operation

Materials and procedures, suitable for the designed parameters of the lift, have been used by the manufacturer to build a safe and reliable product. Operate the lift only for the use it has been designed for and follow the maintenance schedule shown in the chapter "Maintenance".



Fig. 7

4.9 Risks for unauthorized uses

The presence of unauthorized persons next to the lift and on the platforms is strictly forbidden during lifting as well as when the vehicle has been already lifted



Fig. 8

4.10 Risks during vehicle lifting and working

To avoid overloading and possible breaking during lifting and working, the following safety devices have been used:

- A pressure valve placed inside the hydraulic unit to prevent excessive weight.
- Automatic mechanical back-up safety holds on the lift in the elevated position.
- Slack safety in event of cable slackening and/or failure.

The maximum pressure valve has been preset by the manufacturer to a proper pressure. DO NOT try to adjust it to overrun the rated lifting capacity.

It is strictly forbidden to modify any safety device. Always ensure the safety device for proper operation during the service.

5. Installation

Only skilled technicians, appointed by the manufacturer, or by authorized dealers, must be allowed to carry out installation. Serious damage to people and to the lift can be caused if installations are made by unskilled personnel.

Always refer to the exploded views attached during installation.

5.1 Tool required

<p>Rotary Hammer Drill D.20</p> 	<p>Carpenter's Chalk</p> 
<p>Hammer</p> 	<p>Screw Sets</p> 
<p>Level Bar</p> 	<p>Tape Measure (7.5m)</p> 
<p>English Spanner (12")</p> 	<p>Pliers</p> 
<p>Ratchet Spanner With Socket (28#)</p> 	<p>Socket Head Wrench (3#, 5#, 8#)</p> 
<p>Wrench set (10#, 13#, 14#, 15#, 17#, 19#, 24#, 27#, 30#)</p> 	<p>Lock Wrench</p> 

5.2 Checking for room suitability

The lift has been designed to be used in covered and sheltered places free of overhead obstructions.

The place of installation must not be next to washing areas, painting workbenches, solvent or varnish deposits. The installation near to rooms, where a dangerous situation of explosion can occur, is strictly forbidden. The relevant standards of the local Health and Safety at Work regulations, for instance, with respect to minimum distance to wall or other equipment, escapes and the like, must be observed.

5.3 Lighting

Lighting must be carried out according to the effective regulations of the place of installation. All areas next to the lift must be well and uniformly lit.

5.4 Installation surface

The lift does not require to be anchored to floor. But, despite if it is anchored or not, a level floor is suggested. Any major slope change will affect the level lifting performance. If a floor is of questionable slope (more than 3 degrees), considering to pour the new concrete slab. The new concrete slab must be adequately cured by at least 21 days.

If the lift is chosen to be anchored to floor, the concrete slab should have the compression strength of at least 3000 PSI and the minimum thickness 6" with an extension of at least 4 feet from anchoring point.

5.5 Site layout

- Determine which end of the lift will be approach side.
- Determine which side the power-side runway (with the hydraulic cylinder attached) will be located on. Remember that the power-side runway must be installed on the same side as the power-side column.

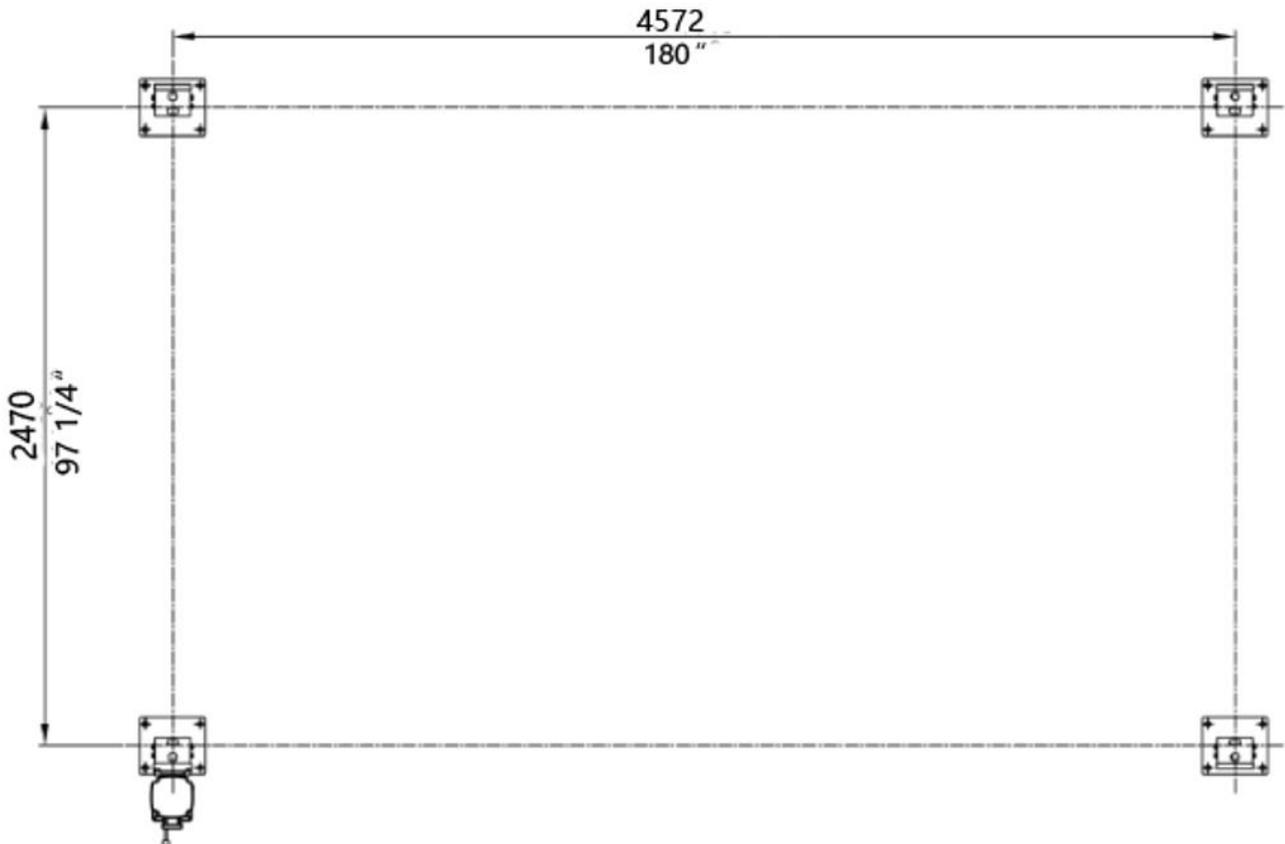


Fig. 9

5.6 Connect the platforms and beams

- Place the two columns face to face with a distance of $102\frac{15}{16}$ " and then push in the crossbeam from the top of the posts.
- Erect the posts after both crossbeams was connected.

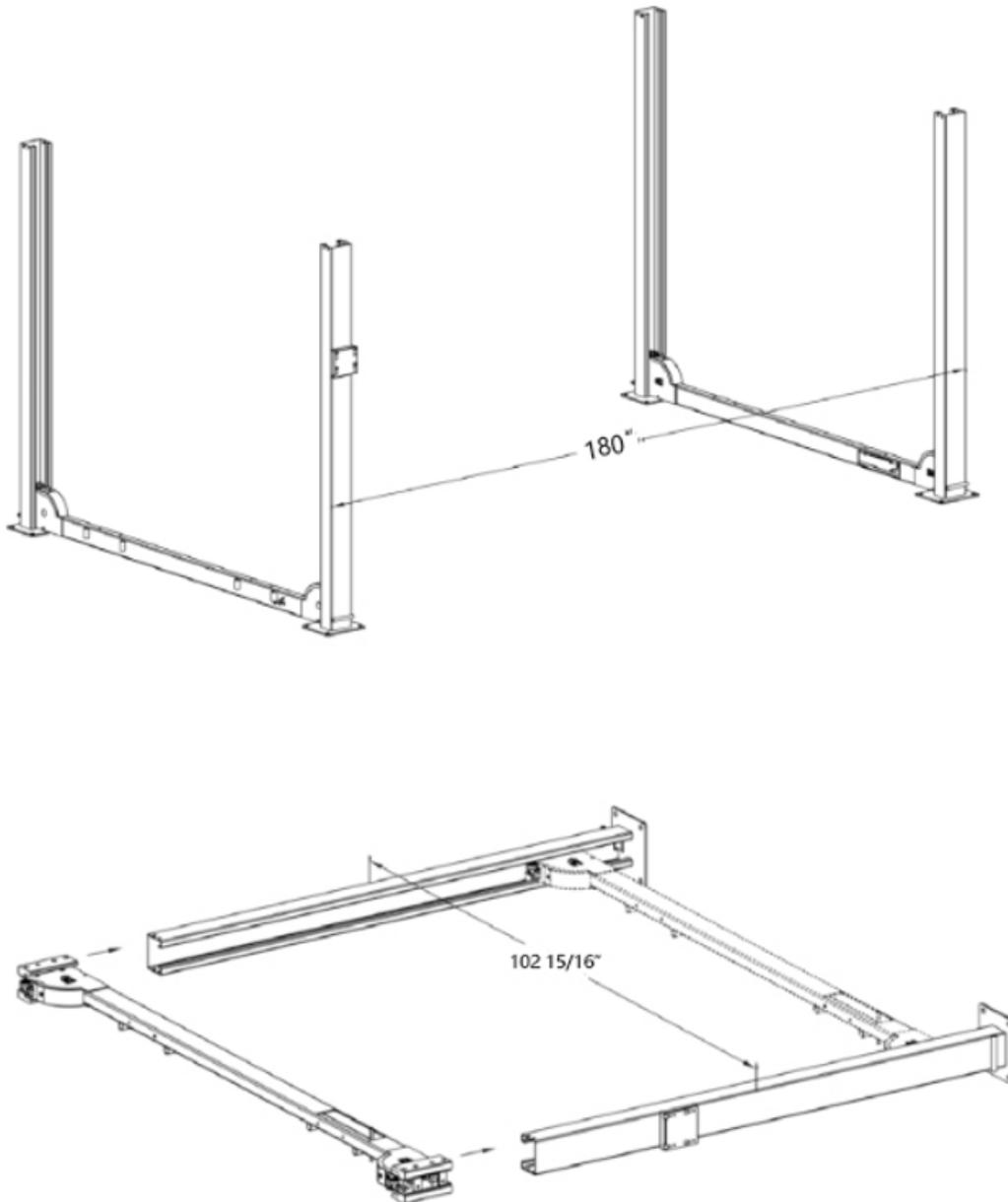


Fig. 10

5.7 Mount on the top post plate and fix safety ratchets

- Fix ratchet with the top post plate with M20 hex nut and flat washer. Ensure the four safety ratchets are of the same height from the ground, this could be checked by measuring the distance of the lowest square hole reserved on the ratchet and the floor.
- Fix the top post plate with the post using M12*25 hex head screw, spring washer and flat washer.

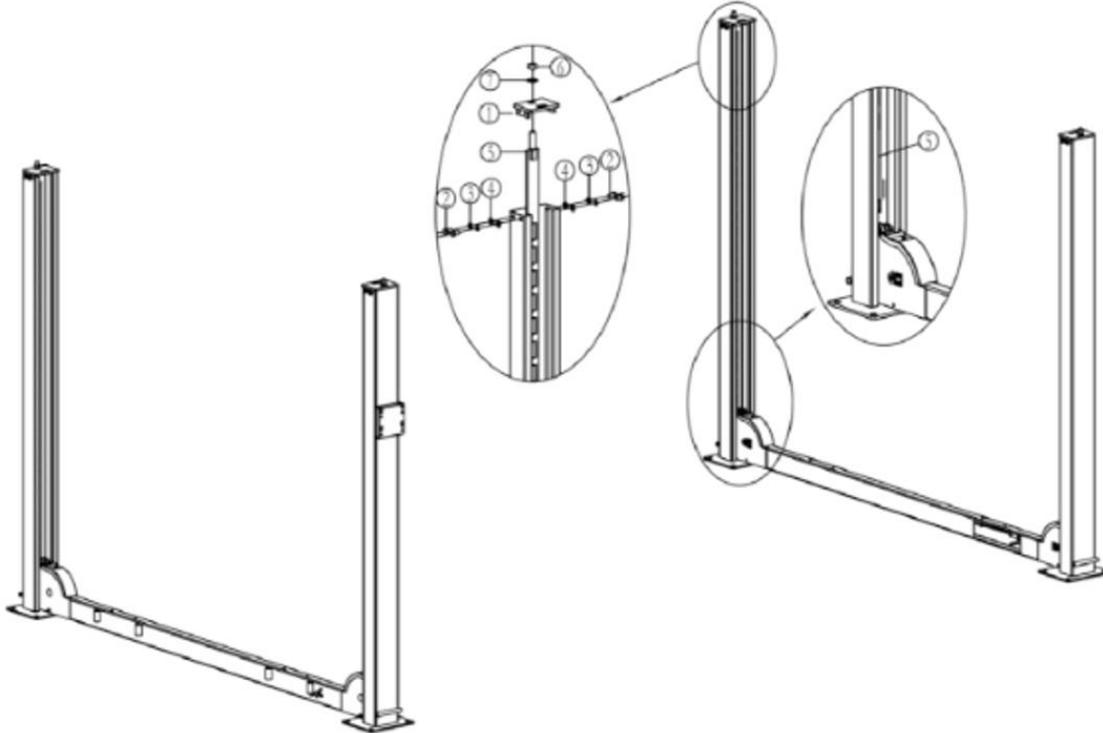


Fig. 11

- ① Top post plate ; ② M12*25 hex screw ; ③ ϕ 12 spring washer; ④ ϕ 12 flat washer ⑤ safety ratchet
 ⑥ M20 nut ⑦ ϕ 20 flat washer

5.8 Mount on lifting platforms

1. Raise both crossbeams to the first locking points.

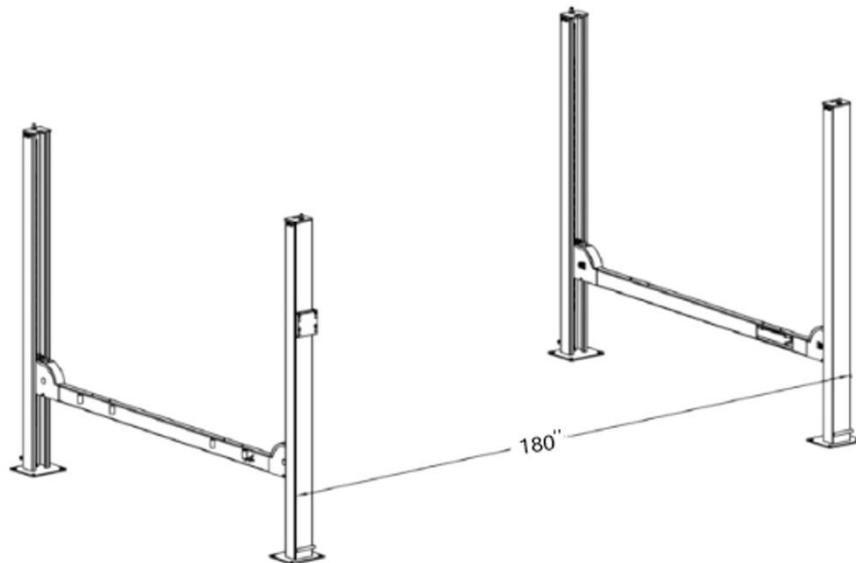
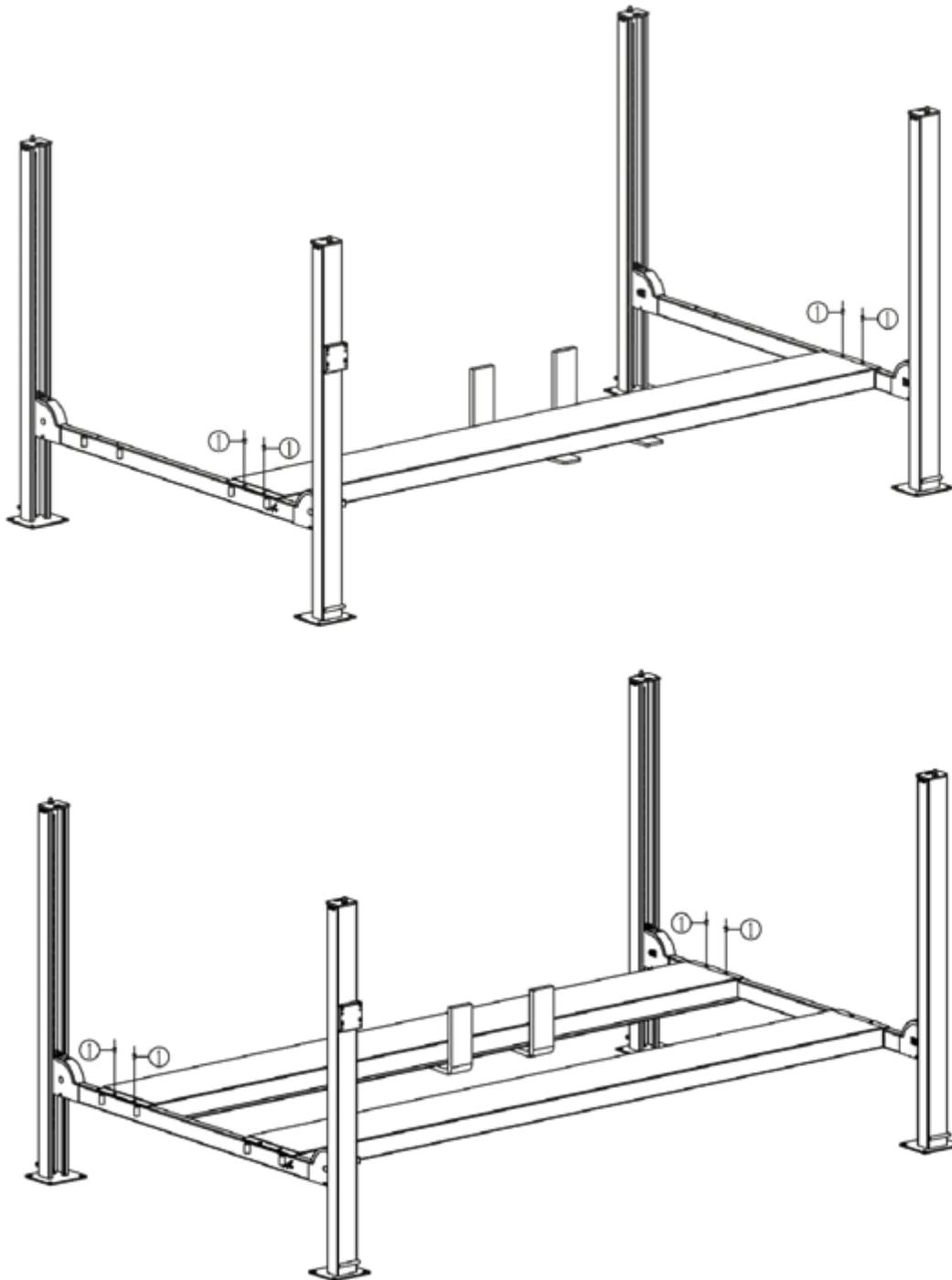


Fig. 12

2. Lift the platform with proper lifting equipment and place it onto the crossbeams. Fix the lifting platform and the crossbeam with M12*25 hex socket flat head screw.



① Hex socket flat head screw M12*25

Fig. 13

3. Fix the installation plate for drive-on ramps

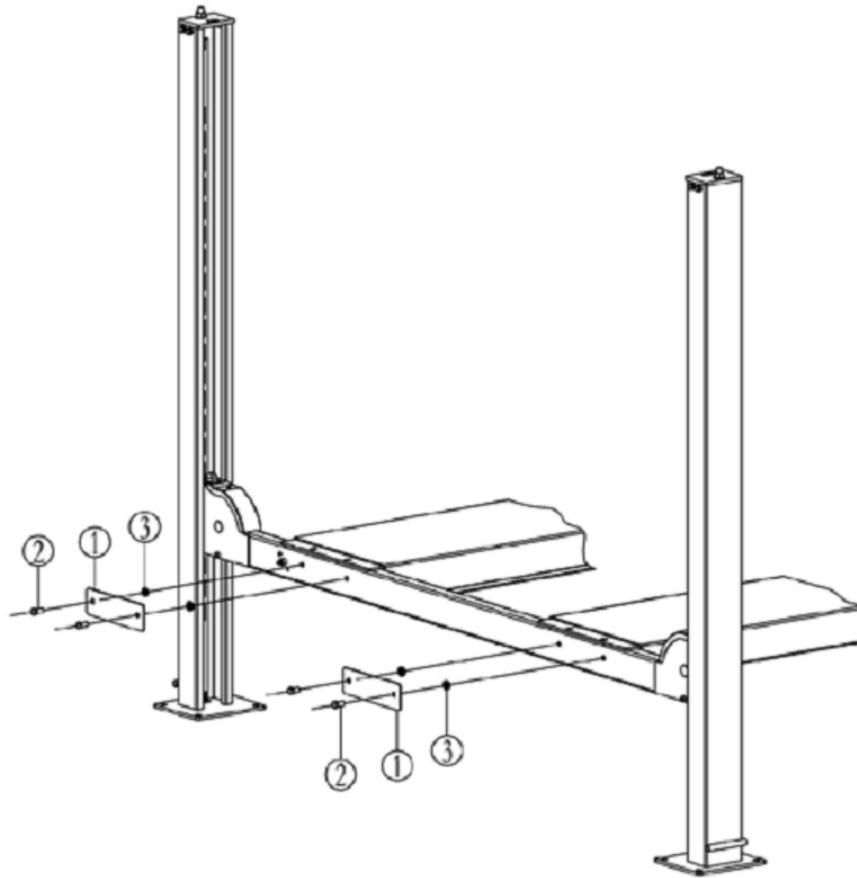


Fig. 14

- ① Installation plate for drive-on ramp ② M16*25 hex head screw ③ Flat washer

5.9 Fix transfer bar

Insert the two section of the transfer bar respectively to the swing shaft assemblies in both crossbeams. Connect the two sections into a whole with screws.

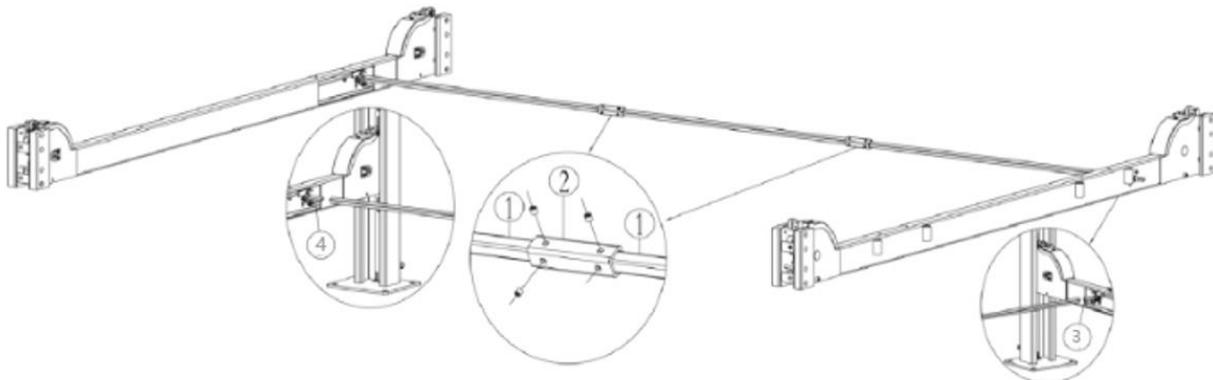


Fig. 15

- ① Transfer bar; ② Connection tube; ③ Main swing shaft; ④ Secondary swing shaft

5.10 Routing steel cable

Each cable must be routed through the column hole toward to the lift center. The lift cannot work properly and thus damage the cable if failure to do so.

- Slide the cables from the end of power-side runway and route the cables through the pulleys in transverse beams referring to the routing diagram (fig. 16). Make sure that the cables are not twisted during routing and are in the proper pulley grooves. Make sure the cables are routed correctly on the slack cable rollers;
- Insert the thread end of steel cable through the top plate of the column and fit two M20 nuts on the thread end, then tighten them.

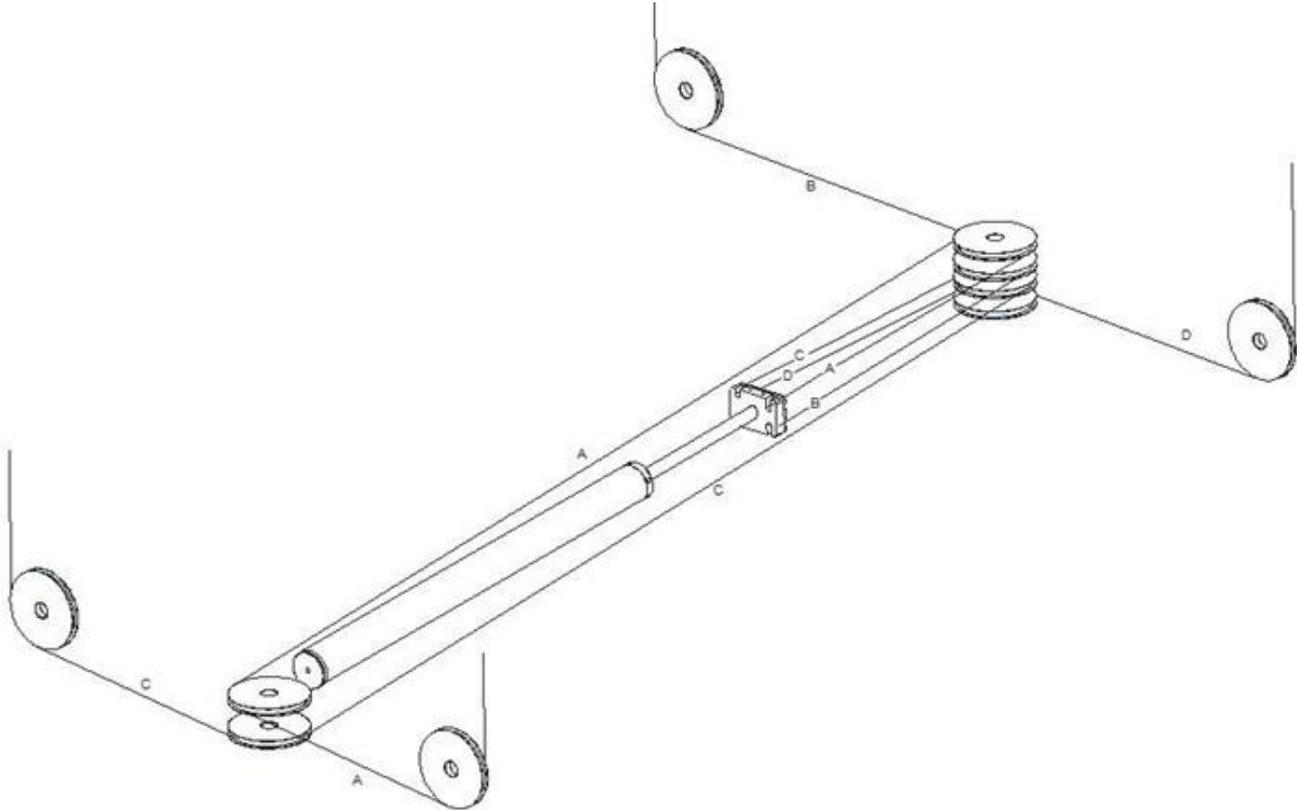


Fig. 16

5.11 Installation of power unit

- Attach the power unit onto the bracket on the power side column;
- Secure it using M8X20 screws, M10 nuts and the washers;
- Make sure to keep the power unit clean.

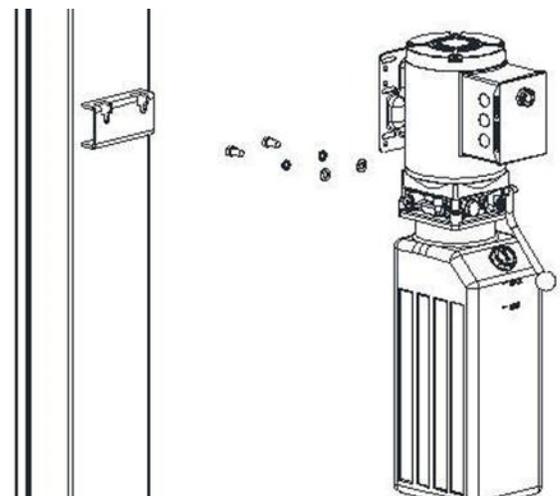


Fig. 17

5.12 Connection of hydraulic hoses

When routing the hydraulic hose, make sure that the hose is clear of any moving part, make sure to keep the hose and fittings clean from dust.

- Clean the hoses and fittings;
- Inspect all threads for damage and make sure that all hose fittings are in good condition;
- Route the hydraulic hoses from the power unit to the cylinder as shown through the 90° bulkhead fitting fitted in the power-side runway;
- Route the risen hose from the power unit to the cylinder as shown through the hole on the power-side runway;
- Tighten the hose fittings thoroughly. Make sure not to over-tighten the hose fittings so as to result in oil leakage.

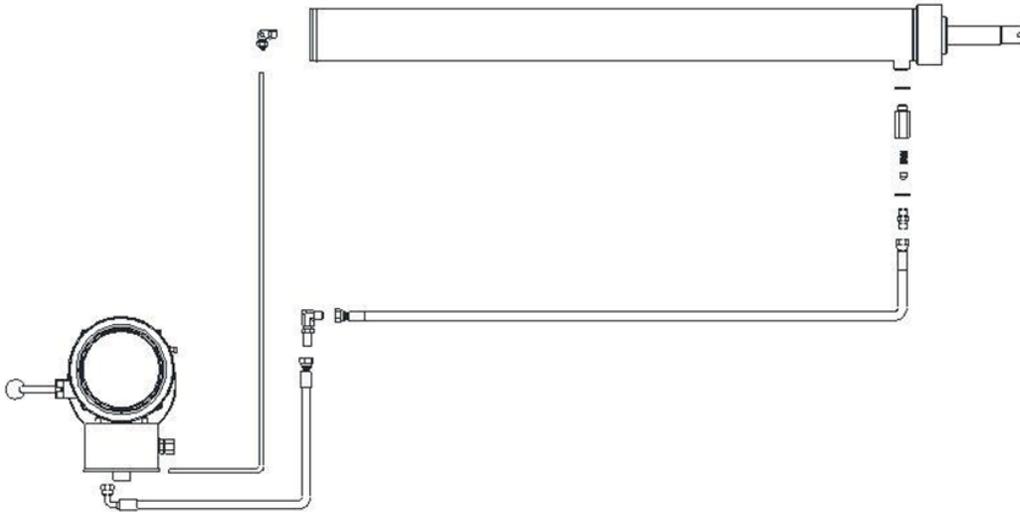


Fig. 18

5.13 Lock system assembly

The single point safety lock is a system of connecting rods and linkage that disengage the four lock latches that secure the lift to each column.

- Locate the parts in the package and preassembled in the lift referring to the figure 19 and the sheet below;
- Assemble the lock system referring to the figure 19 and tighten the respective screws and nuts;
- Make sure that all four latches can be released by depressing the lock release lever.

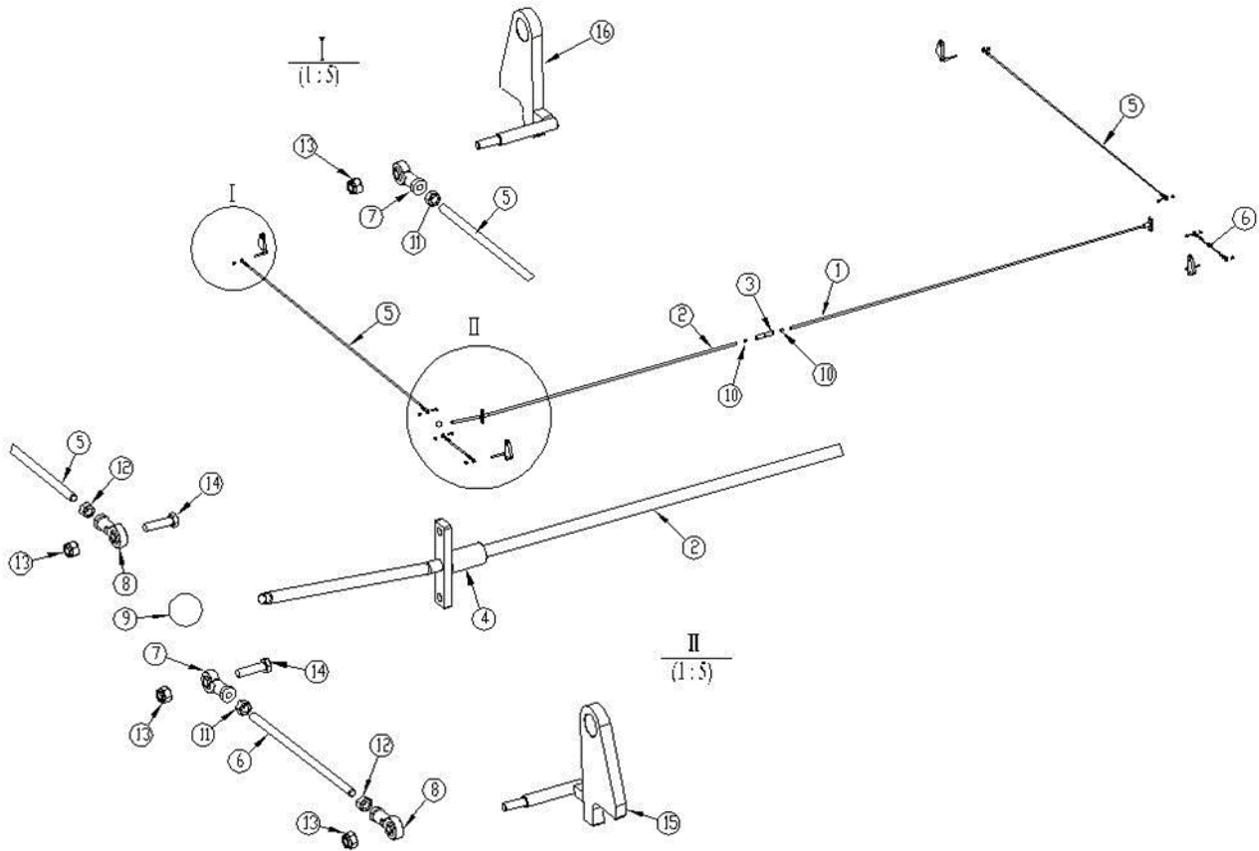


Fig. 19

Item	Description	Qty	Item	Description	Qty
1	Latch release rod B	1	9	Knob M10X33	1
2	Latch release rod A	1	10	Nut M12	2
3	Coupler	1	11	Nut M8 – left handed	4
4	Spacer	2	12	Nut M8	4
5	Long stud	2	13	Self-locking nut M8	8
6	Short stud	2	14	Screw M8X30	4
7	Bearing M8 – left handed	4	15	Right latch	2
8	bearing M8	4	16	Left latch	2

5.14 Make electrical hookup to power unit

The hookup work must be carried out by a qualified electrician. Make sure that the power supply is right.

Make sure the connection of the phases is right. The power unit must be kept dry.

- Make the electric hookup to the hydraulic power unit referring to the wiring diagram;
- Make sure to install a proper circuit breaker on the circuit (DZ47-63/ D32A/2P is suggested for single phase 110V);
- Make sure the lift is grounded well.

5.15 Oil filling and bleeding

DO NOT run power unit without oil. Damage to pump can occur. If motor gets hot or sounds peculiar, stop immediately and recheck the electric connection.

If the vented cap is lost or broken, order the replacement. The oil tank must be vented well.

Add about 2.5 gallons of hydraulic oil to the hydraulic fluid reservoir, AW32 during winter time (cold weather), and AW46 during summer time (hot weather).

Make sure there is no oil leak.

Repeatedly raise and lower the lift to bleed trapped air from the cylinders.

Power unit testing (Fig 20)

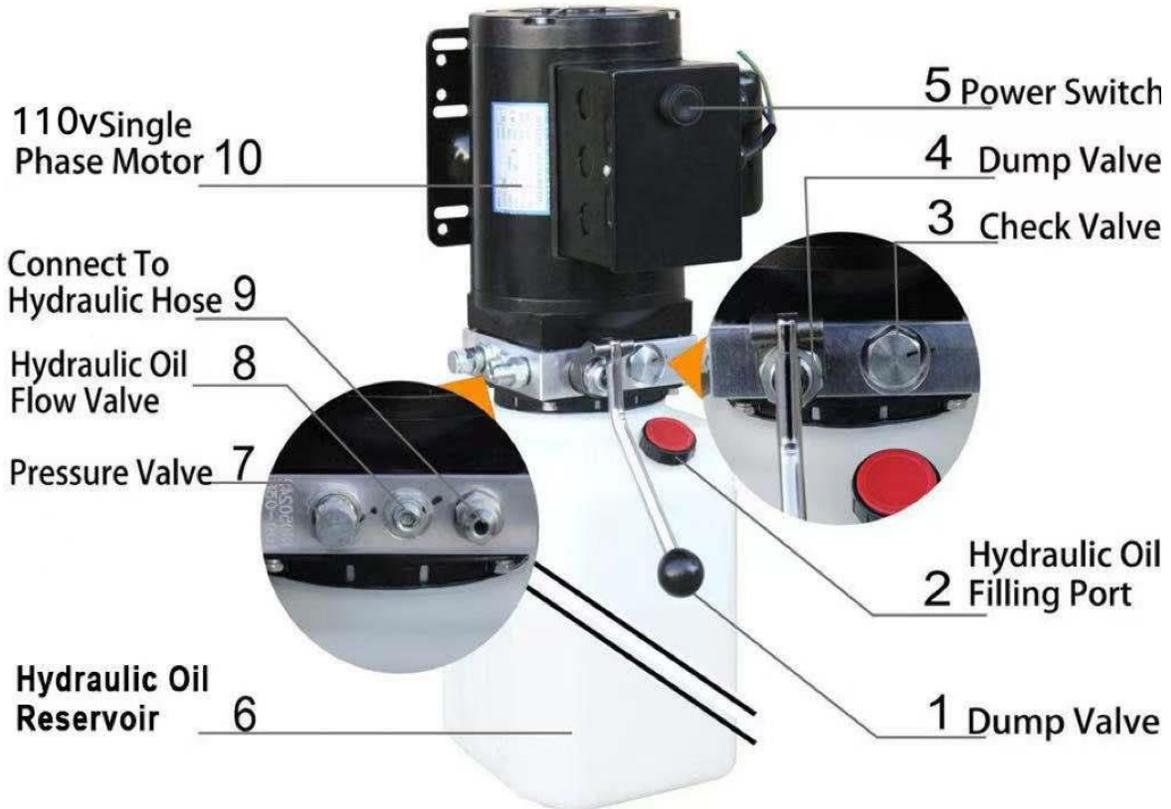


Fig 20

****Important Information****

7 Pressure Valve: Clockwise adjustment increases pressure to make the power unit to have more power, counterclockwise adjustment decreases pressure to make the power unit to have less power.

8 Hydraulic oil Flow Valve: Clockwise adjustment to speed up, counterclockwise adjustment to slow down.

5.16 Final installation

5.16.1 Runway leveling adjustment

Runways must be leveled side to side, front to rear. The maximum tolerance cannot be over 1/8".

- Raise the lift off all latches until the cables are supporting the lift and check that all cables are adjusted in the same tension;
- Verify if both the runways are leveled horizontally by means of a water gauge or a leveling instrument. If not make the adjustment referring to the figure 16.

5.16.2 Locking position adjustment

All latches must be engaging uniformly before any attempt is made to work on or near the vehicle.

- Raise the lift from bottom to top and verify if 12 locking latch clicks can be heard;
- Raise the lift to the topmost latch position to verify if four latches are engaging uniformly. If not, make the adjustment referring to the figure 14.

5.16.3 Accessory installation

- Mount the pulley cover on each end of transverse beam using a M6X10 screw.
- Attach each drive-on ramp on the rear transverse beam as shown.

5.16.4 Caster kit installation

The caster kit is to be ordered optionally. Install it in the following steps:

- Raise the lift about 20" high;
- Install it in the column as shown and secure with the pin and split pin.

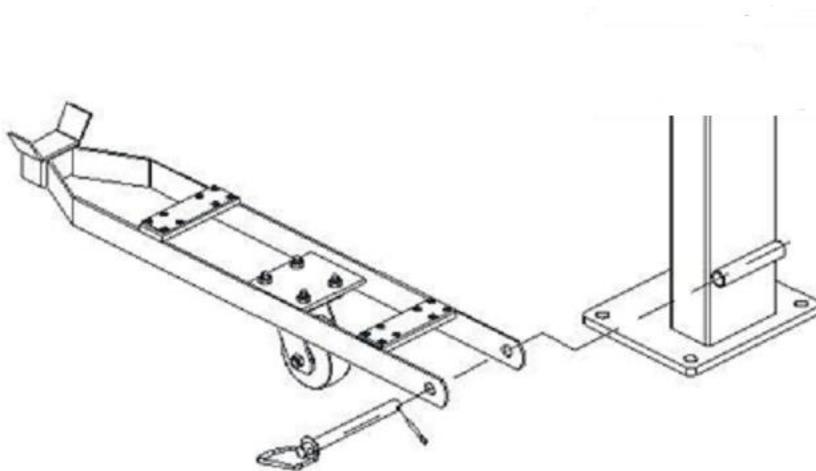


Fig. 21

5.17 Anchoring columns

If the lift is chosen to be anchored to floor, the concrete slab should have the compression strength of at least 3000 PSI and the minimum thickness 6" with an extension of at least 4 feet from anchoring point.

- Using the base plate as guide, drill each hole in the concrete approximately 6" deep with the rotary hammer drill D.16. To assure full holding power, do not ream the hole or allow drill to wobble.
- After drilling, remove dust thoroughly from each hole using compressed air or wire brush.
- Assemble the washers and nuts on the anchors then tap into each hole with a hammer until the washer rests against the base plate. Be sure if shimming is required, enough threads are left exposed.
- If shimming is required, insert the shims as necessary around the anchor bolts, the columns will be plumb.
- With the shims and anchor bolts in place, tighten by securing the nut to the base.

5.18 Check before start-up

During START UP procedure, observe all operating components and check for proper installation and adjustment. DO NOT attempt to raise vehicle until a thorough operation check has been completed.

5.18.1 General checks

- Make sure to check that the columns are plumb;
- Make sure to check the electrical system feeding voltage is equal to that specified in the nameplate on the motor;
- Make sure to check the electric system connection in conformity of the electric plan shown as the electric diagram and for proper grounding.
- Make sure to check all plastic sliders are on the position and greased properly.
- Make sure to check all pins are installed correctly and greased properly.
- Make sure to check all bolts, nuts and screws are tightened securely.
- Particularly, below checks must be followed:

5.18.2 Steel cable for proper installation

- Check to make sure that all cables are routed correctly and are on the correct pulleys.
- Check that all cables are adjusted in the same tension and the lift can be raised evenly. If not, make the adjustment.

There will be some initial stretching of the cables in the beginning. It will be necessary to re-adjust the cables a week after the first week, then three months thereafter. Failure to do this will cause uneven lifting.

5.18.3 Safety lock for proper installation

- Check to make sure that the lock engages and releases properly.
- Check if four latches are engaging uniformly. If not, make the adjustment.

5.18.4 Hydraulic system for proper operation

- Proper oil level in the tank, refill if needed.
- Raise the lift to the full height and keep the motor running for 5 seconds and check all hose connections have no leakage. Tighten the connections or reseal if necessary.
- Check the lift for reaching its maximum height.

If the vented cap is lost or broken, order the replacement. The oil tank must be vented well.

5.19 Check with load

WARNING: please follow carefully the instructions in the coming paragraph for avoiding damages on the lift.

Carry out two or three complete cycles of lowering without and with the vehicle loaded and:

- Repeat the checks provided for by 5.21.
- Check no strange noise during lifting and lowering.
- If the runways weren't leveled, readjust.

6. Operation and use

Never operate the lift with any person or equipment below. Never exceed the rated lifting capacity.

Always ensure that all latches are engaged well before any attempt is made to work on or near the vehicle.

Never leave the lift in an elevated position unless the safeties are engaged.

If an anchor bolt becomes loose or any component of the lift is found to be defective, DO NOT USE THE LIFT until repairs are made.

6.1 Controls of lift

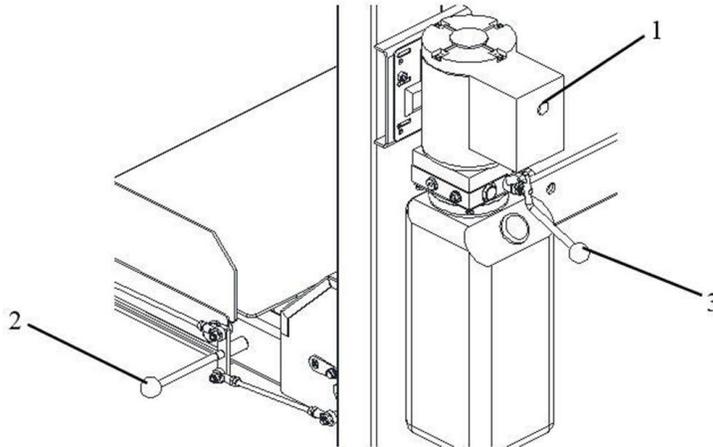


Fig. 22

Controls for operating the lift are:

Lifting button (1):

- When pressed, the power unit is running and the lift can be raised to a desired height until the button is released.

Latch release lever (2):

- When pressed, the lock latches will be released so that the lift can be lowered.

Lowering handle (3):

- When latches are not released, press it to lower the lift to engage the nearest latch rack.
- Press it and in the meantime press the latch release lever, the lift descends to the desired height under its weight and the load lifted until the handle is released.

Lift operation can be summarized into three steps:

6.1.1 Lifting

- Pay attention to overhead clearance;
- The lift must be fully lowered and no one in the service area while the vehicle is driven onto the lift;
- Position the wheels in center of each runway;
- Stop the vehicle when it contacts the front stops or at the desired position;
- Set the parking brake or place the wheel chocks on each side of the rear wheels;
- Make sure all personnel exits the area before the lift is raised;
- Raise the lift by pushing the lifting button until reaching the desire height.

6.1.2 Standing

- Press the lowering handle to engage the nearest latch position;
- Always ensure that the latch in each column is engaged before any attempt is made to work on or near the vehicle.

6.1.3 Lowering

- Be sure the safety area is free of people and objects;
- Raise the lift high enough by pushing the lifting button to clear off the locks;
- Lower the lift by pressing both the latch release lever and the lowering handle;
- Observe the lift and the vehicle to be sure the lift is level while being lowered;
- Lower the lift fully;
- Remove the wheel chocks and check to be sure that the area is clear before removing the vehicle off the lift.

6.2 Moving with caster kit

- When the lift is lowered, the columns will automatically rise off the floor so that the lift can be moved.
- When the lift is raised, the columns will automatically be grounded for working.
- Always ensure that the lock in each column is engaged before any attempt is made to work on or near the vehicle.

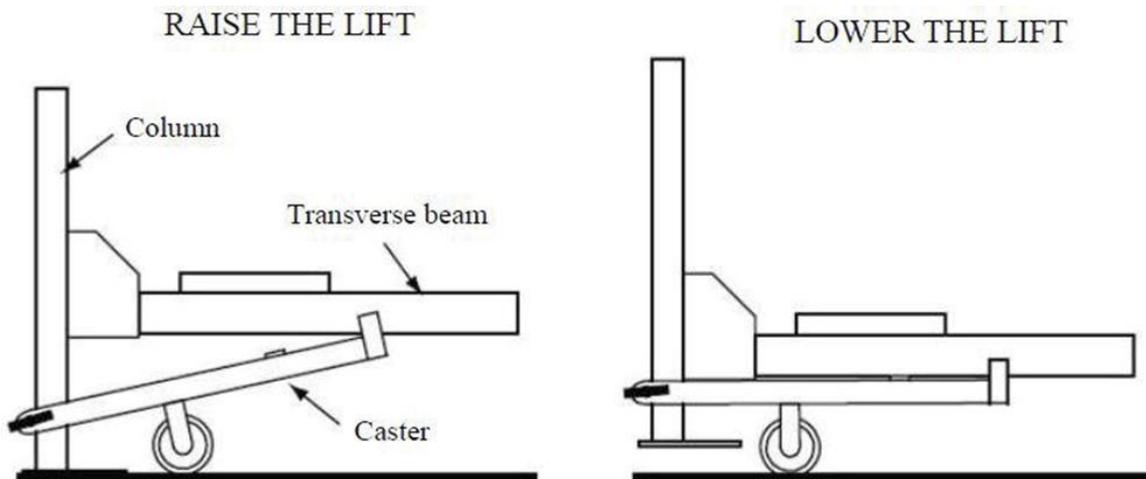


Fig. 23

7. Maintenance

Only trained people who know how the lift works, can be allowed to service the lift.

To service properly the lift, the following has to be carried out:

- use only genuine spare parts as well as equipment suitable for the work required;
- follow the scheduled maintenance and check periods shown in the manual;
- discover the reason for possible failures such as too much noise, overheating, oil blow-by, etc.
- refer to documents supplied by the manufacture or dealer to carry out maintenance.

Before carrying out any maintenance or repair on the lift, disconnect the power supply.

7.1 Ordinary maintenance

The lift has to be properly cleaned at least once a month using self-cleaning clothes.

The use of water or inflammable liquid is strictly forbidden.

Be sure the rod of the hydraulic cylinders is always clean and not damaged since this may result in leakage from seals and, as a consequence, in possible malfunctions.

7.2 Periodic maintenance

Daily pre-operation	<ul style="list-style-type: none"> • Check hydraulic connections and hoses for leaks • Check mechanical locks audibly and visually while in operation • Check arm locks • Check bolts, nuts and screws are tight
Every 1 month	<ul style="list-style-type: none"> • Check all cable connections, pins and bolts to insure proper mounting • Inspect all anchor bolts and retighten if necessary • Check columns for square-ness and plumb • Check equalizer cable tension, adjust if necessary • Check safety cable, adjust it if necessary • Check all arm pivot pins. Make sure they are properly secured • Check all lifting pads, replace if necessary • Lubricant columns with grease • Check the hydraulic oil, fill or replace if necessary • Check hydraulic systems for proper operation
Every 12 months	<ul style="list-style-type: none"> • Verify that all components and mechanisms are not damaged • Verify the equalizer cables are not worn, change if necessary • Check the electrical system to verify that the motors operate properly (this work must be carried out by skilled electricians) • Empty the oil tank and change the hydraulic oil

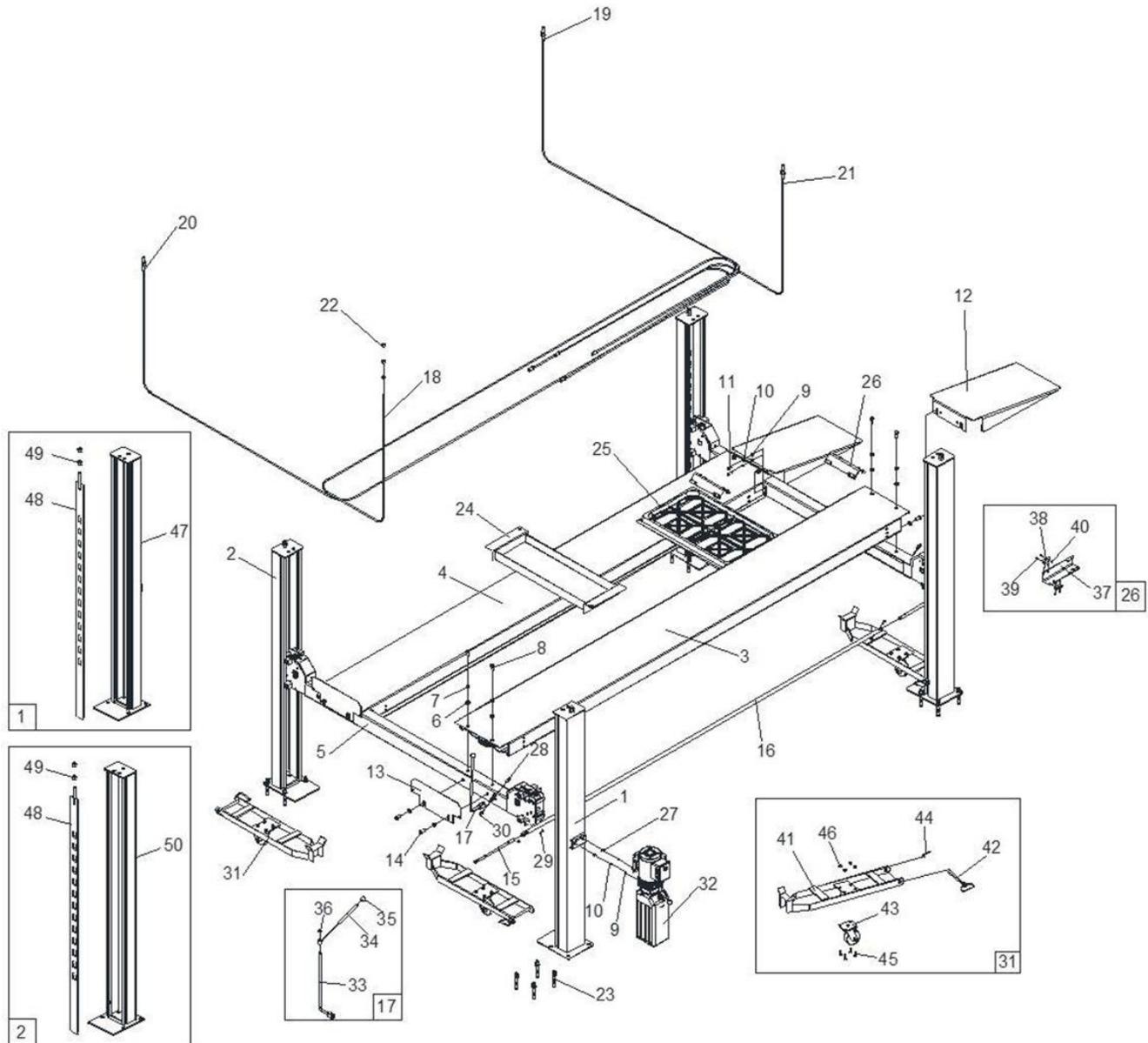
8. Troubleshooting

A list of possible troubles and solutions is given below:

Trouble:	Possible Cause:	Solution:
The lift does not work	There is no power	Check Power on to restore if necessary
	The electrical wires are disconnected	Reconnect
	The circuit breaker are blown	Check for correct voltage Replace
The lift does not raise	The lift is overloaded	Check the vehicle weight
	The motor direction of rotation is not correct.	Interchange the two phases on the main switch
	The oil in the power unit is not sufficient.	Add some hydraulic oil
	The UP button is faulty.	Check UP button and connection for proper operation. Replace if needed
	The lowering valve does not close.	Check and clean, if dirty or replace if faulty
	The suction tube or pump filter is dirty.	Check and clean if needed.
The lifting capacity is not sufficient	Presence of air in the hydraulic system	Bleed the hydraulic system
	The pump is faulty	Check the pump and replace if needed.
The lift does not lower when the lowering lever and the safety release lever are pressed	Oil leakages in hydraulic circuit	Check the circuit for any leakage
	The lowering valve does not work properly	Check the valve and replace if needed.
The lift does not lower smoothly	The equalizer cables are not in the same tension.	Readjust the equalizer cables.
	Presence of air in the hydraulic system	Bleed the hydraulic system
	Lubrication of sliders is not enough.	Grease
	Sliders are damaged	Replace

9. Parts list

9.1 Explode drawing and parts list

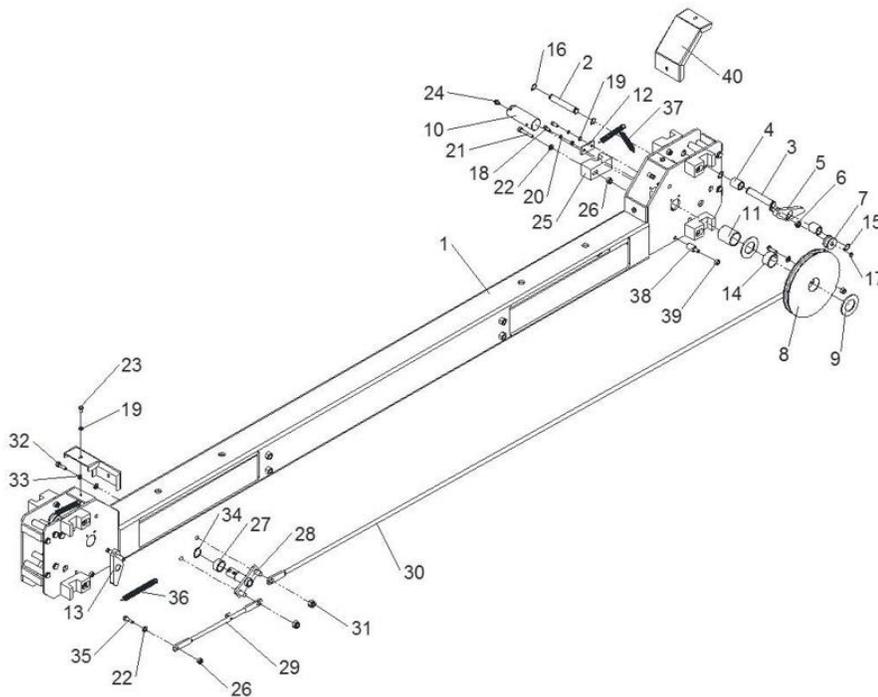


STRATUS 4 post parking Lift Installation & Operation & Maintenance Instructions

Item	Part No.	Description	Qty
1	Z74A110000	Power-side column	1
2	Z74A120000	Off-side column	3
3	Z74A310000	Power-side platform assembly	1
4	Z74A320100	Off-side platform assembly	1
5	Z75A200000	Transverse beam assembly	2
6	0205020	Washer D.16 - GB/T97.1	20
7	0208011	Locking washer D.16 - GB/T93	8
8	0201097	Screw M16X35 - GB/T5783	8
9	0205011	Washer D.10 - GB/T97.1	10
10	0208007	Locking washer D.10 - GB/T93	10
11	0201064	Screw M10X25 - GB/T5783	8
12	Z74A811000	Drive-on ramp assembly	2
13	Z74A800001	Wheel stop plate	2
14	0201216	Screw M16X30 - GB/T5783	8
15	Z74A020001	Connection rod	2
16	Z74A020002	Cover	1
17	Z74A021000	Safety release lever	1
18	Z74A850100	Steel cable A	1
19	Z74A850200	Steel cable B	1
20	Z74A850300	Steel cable C	1
21	Z74A850400	Steel cable D	1
22	0203025	Nut M16 - GB/T6170	8
23	0215084	Anchor bolt M19X140	16
24	Z92A831000	Wheel kit	1
25	Z92A800001	Plastic Drip Trays	4
26	Z72A300100	wheel chock	2
27	0201062	Screw M10X20 - GB/T5783	2
28	0202046	Screw M8X45 - GB/T70.1	2
29	0202042	Screw M8X40 - GB/T70.1	4
30	0204004	Nut M8 - GB/T889.1	6
31	Z74A100300	Caster kit	4
32	0302025	Hydraulic power unit	1
33	Z74A021100	Handle release lever	1

Item	Part No.	Description	Qty
34	Z74A021200	Extension lever	1
35	0603017	Knob	1
36	0204005	Self-locking nut M10	1
37	Z72A300101	Angle plate	1
38	Z72A300102	Rubber pad	4
39	0206025	Screw M5X18 - GB/T818	8
40	0203031	Nut M5 - GB/T6170	8
41	Z74A110500	Support	1
42	Z74A111500	Pulling shaft	1
43	0511201	Caster	1
44	0213113	Pin 5X50	1
45	0201049	Screw M10X30 - GB/T5783	4
46	0204005	Self-locking nut M10	4
47	Z74A110100	Post A	1
48	Z74A110200	Safety rack	1
49	0203012	Nut M20 - GB/T6170	2
50	Z74A120100	Post B	1

9.2 Transverse beam and parts list

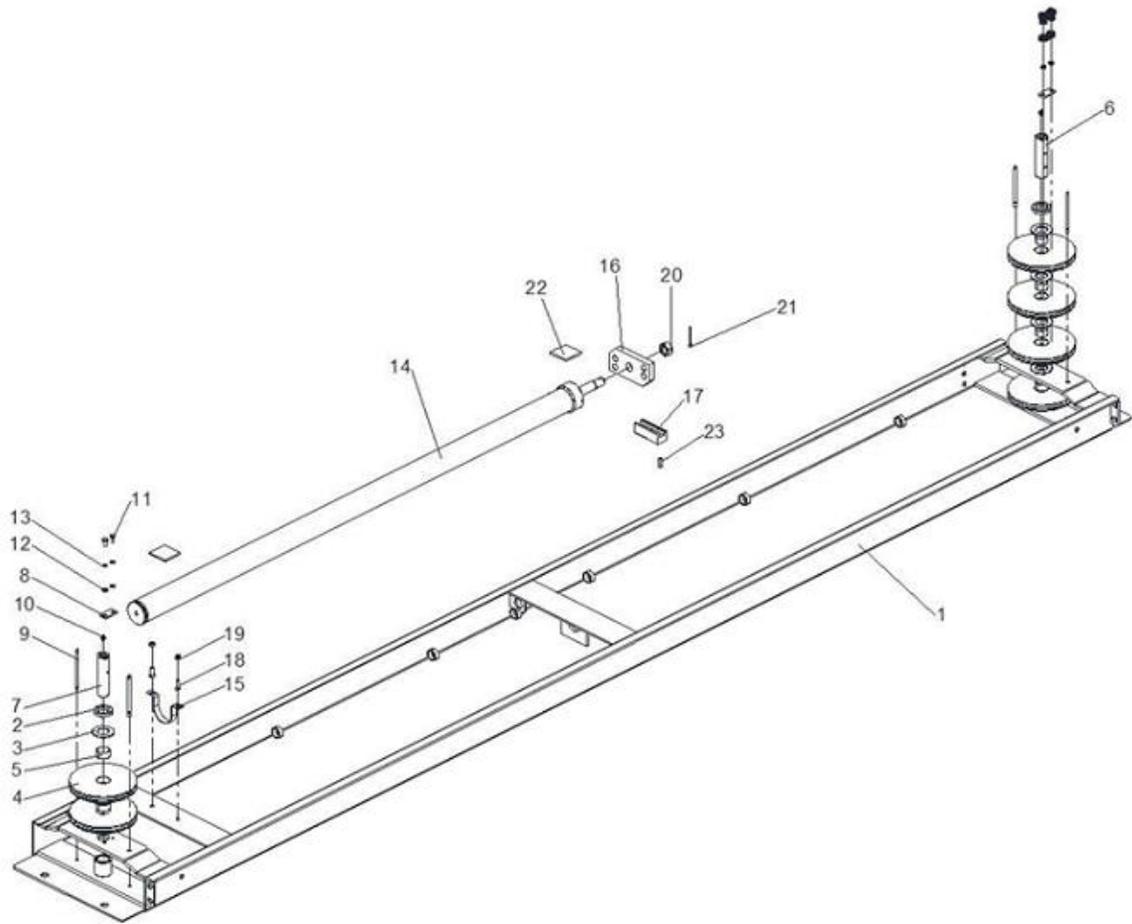


STRATUS 4 post parking Lift Installation & Operation & Maintenance Instructions

Item	Part No.	Description	Qty
1	Z74A210000	Transverse beam	1
2	Z72E200001	Shaft 1	6
3	Z72E200002	Shaft 2	4
4	Z72E200003	Bush	4
5	Z72E220000	Safety pawl A	1
6	Z72E200005	Spacer	2
7	Z72E200004	Nylon roller	2
8	Z74A310002	Cable pulley	2
9	Z72E310003	Washer	4
10	Z72E200007	Shaft 3	2
11	Z72E200006	Bush	2
12	Z72E200008	Protective plate	2
13	Z72E230000	Safety pawl B	1
14	0210119	Bush 3520	2
15	0212016	Seeger D.18	8
16	0212002	Seeger D.16	12
17	0212013	Seeger D.10	2
18	0201013	Screw M6X16 - GB/T5783	4
19	0205006	Washer D.6 - GB/T97.1	8
20	0208005	Spring washer D.6 - GB/T93	4
21	0202046	Screw M8X45 - GB/T70.1	8
22	0205008	Washer D.8 - GB/T97.1	11
23	0206040	Screw M6X12 - GB/T818	4
24	0215021	Greaser M8X1	2
25	Z74A200005	Slider	8
26	0204004	Nut M8 - GB/T889.1	10
27	0210135	Bush bearing	1
28	Z74A220000	Manual release unit	1
29	Z74A230000	Short rod	1
30	Z74A200006	Long rod	1
31	0204007	Nut M12	2
32	0202047	Screw M8X25	1
33	0208006	Locking washer D.8 - GB/T93	1
34	0212004	Seeger D.25 - GB/T894.1	1
35	0201038	Screw M8X25 - GB/T5783	

Item	Part No.	Description	Qty
36	Z74A200004	Spring	1
37	Z71P211811	Spring	4
38	Z74A200009	Shaft	2
39	0203029	Nut M8	2
40	Z74A200007	Cover	2

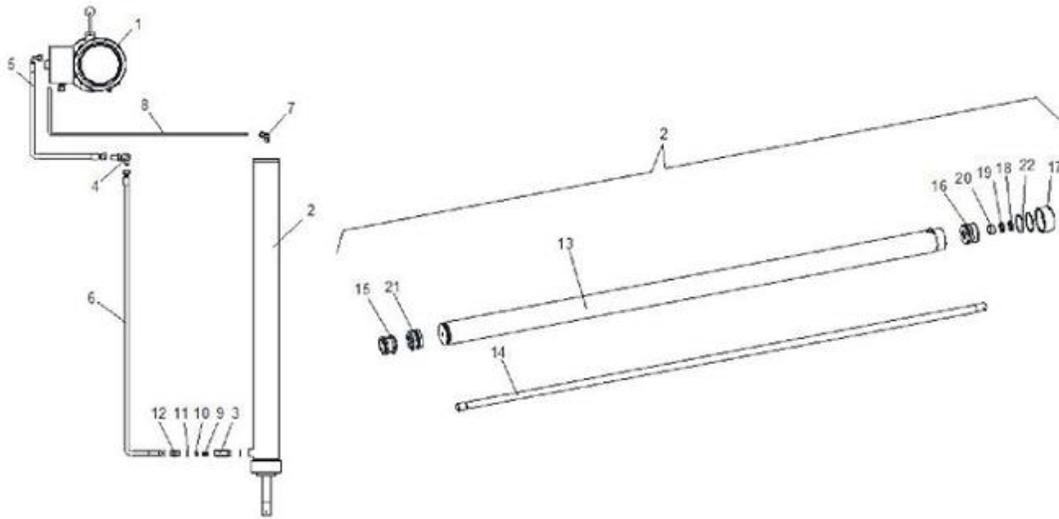
9.3 Power-side runway and parts list



STRATUS 4 post parking Lift Installation & Operation & Maintenance Instructions

Item	Part No.	Description	Qty
1	Z74A310100	Power-side platform	1
2	Z74A310001	Washer	2
3	Z72E310003	Washer	7
4	Z74A310002	Cable pulley	6
5	0210119	Bush 3520	6
6	Z75A310102	Pulley shaft	1
7	Z75A310101	Pulley shaft	1
8	Z71P310002	Spacer	2
9	Z75A310009	Shaft	4
10	0215021	Greaser M8X1	2
11	0201026	Screw M8X16 - GB/T5783	4
12	0205008	Washer D.8 – GB/T97.1	4
13	0208006	Locking washer D.8 - GB/T93	4
14	Z74AY63000	Hydraulic cylinder	1
15	Z74A310004	Clamp	1
16	Z74A310003	Cable holder	1
17	Z74A310005	Slider	1
18	0201038	Screw M8X25 - GB/T5783	2
19	0204004	Nut M8 - GB/T889.1	2
20	0203021	Nut M24 - GB/T6170	1
21	0213113	Pin 5X50 - GB/T91	1
22	Z74A310006	Protection board	2
23	0202045	Screw M8X20 - GB/T70.1	1

9.4 Hydraulic line and parts list



Item	Part No.	Description	Qty
1	0302025	Hydraulic power unit	1
2	Z74AY63000	Hydraulic cylinder	1
3	7532-B	Valve housing	1
4	0303075	90° bulkhead fitting 1/4	1
5	ZW1600	Hydraulic hose 1/4 L=1600	1
6	ZZ2000	Hydraulic hose 1/4 L=2000	1
7	0306065	Rotation union 8-1/4	1
8	0306096	PU hose 8X5.5X5300	1
9	7530-Y-3	Spring	1
10	7530-Y-2	Restrictor	1
11	0313001	Washer 1/4	2
12	0303065	Fitting 1/4	1
13	Z74AY63100	Cylinder liner	1
14	Z74AY63804	Piston shaft	1
15	Z74AY63801	Piston	1
16	Z74AY63802	Cylinder guiding cover	1
17	Z74AY63803	Cover	1
18	0311001	Scraper 25X33X4.5/6	1
19	0310008	Sealing ring 25X33X5	1
20	0305040	Guide ring 25X15X2.5	1
21	0312012	Gasket 63X47X18.4	1
22	0309035	O-ring 63X3,1	2

10. Special notes

10.1 Environmental damage

Only appropriately trained personnel may dismantle and dispose of the unit.

10.2 Dismantling

To dismantle the product, proceed as follows:

ELECTRICAL HAZARD!

When carrying out any decommissioning and dismantling work on the unit, switch off all power supply connections, ensure they cannot be switched on unintentionally and verify that they have been disconnected. Earth and short-circuit them, and cover or otherwise isolate any neighboring live parts. Failure to do so may lead to serious injuries or death.

HIGH PRESSURE HAZARD.

When carrying out any unit decommissioning and dismantling work, close off and empty all the connection pipes until the pressure is the same as the ambient air pressure. Failure to do so may lead to injury.

Make sure that the hydraulic circuit has been switched off.

Close all hydraulic shut-off valves.

Disconnect all connections, making sure at the same time, that no operating materials escape, such as oil, refrigerant and water-glycol mixture.

Loosen the connection to the base.

PERSONAL INJURY!

Secure the unit against slipping.

The unit is ready for transporting.

It is important that all transport information is observed .

10.3 Disposal

A specialist company with the appropriate competence must dispose of the unit and individual components. This technical services department must ensure that:

- the components are separated according to material types
- that the operating materials are sorted and separated according to their properties.

ENVIRONMENTAL DAMAGE.

Dispose of all components and operating materials (such as oil, refrigerant and water-glycol mixture)

separately according to material and in line with local laws and environmental regulations.

10.4 Noise declaration

Sound power level: LWA<85dB

Accompanied uncertainly K=4 dB

This measurement made in according with EN ISO 3746:1995

Applied operating conditions are:

With the rated load, the pump motor rotate.

According the test report, the operating position have the max noise value, but the noise risk is not the obvious hazard of the lift and the noise value is not big more to hurt operator.

If the noise is higher than the value, the lift must be stopped and check the trouble and repair.

“The figure quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this can't be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the working room, the other source of noise etc. i.e. the number of the machines and other adjacent processes. Also the permissible exposure level can vary from country to country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.”