

INSTALLATION & OPERATION MANUAL



Atlas 6PL 6,000 lb. Capacity Portable Scissor Lift



Atlas Automotive Equipment
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Read this entire manual before operation begins.

Record below the following information which is located on the serial number data plate.

Serial No. _____

Model No. _____





Date of Installation _____

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Printing Characters And Symbols

Throughout this manual, the following symbols and printing characters are used to facilitate reading:

	Indicates the operations which need proper care
	Indicates prohibition
	Indicates a possibility of danger for the operators
	Indicates the direction of access for motor vehicles to the lift
BOLD TYPE	Important information

	WARNING: before operating the lift and carrying out any adjustment, read carefully chapter 7 "installation" where all proper operations for a better functioning of the lift are shown.
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General Information

This chapter contains warning instructions to operate the lift properly and prevent injury to operators or objects. This manual has been written to be used by shop technicians in charge of the lift (operator) and routine maintenance technician (maintenance operator). The operating instructions are considered to be an integral part of the machine and must remain with it for its whole useful life. Read every section of this manual carefully before operating the lift and unpacking it since it gives helpful information about:

- **safety of people**
- **safety of the lift**
- **safety of lifted vehicles**

The company is not liable for possible problems, damage, accidents, etc. resulting from failure to follow the instructions contained in this manual. Only skilled technicians of AUTHORISED DEALERS or SERVICE CENTERS AUTHORISED by the manufacturer shall be allowed to carry out lifting, transport, assembling, installation, adjustment, calibration, settings, extraordinary maintenance, repairs, overhauling and dismantling of the lift.

The manufacturer is not responsible for possible damage to people, vehicles or objects if said operations are carried out by unauthorized personnel or the lift is improperly used.

Any use of the machine made by operators who are not familiar with the instructions and procedures contained herein shall be forbidden.

1.1 Manual Keeping

For a proper use of this manual, the following is recommended:

- keep the manual near the lift, in an easily accessible place.
- keep the manual in an area protected from the damp.
- use this manual properly without damaging it.
- any use of the machine made by operators who are not familiar with the instructions and procedures contained herein shall be forbidden.

This manual is an integral part of the lift: it shall be given to the new owner if and when the lift is resold.

1.2 Obligation In Case Of Malfunction



In case of machine malfunction, follow the instructions contained in the following chapters.

1.3 Cautions For The Safety Of The Operator

Operators must not be under the influence of sedatives, drugs or alcohol when operating the machine.



Before operating the lift, operators must be familiar with the position and function of all controls, as well as with the machine features shown in the chapter "Operation and use"

1.4 Warnings



Unauthorized changes and/or modifications to the machine relieve the manufacturer of any liability for possible damages to objects or people. Do not remove or make inoperative the safety devices, this would cause a violation of safety at work laws and regulations.



Any other use which differs from that provided for by the manufacturer of the machine is strictly forbidden.



The use of non genuine parts may cause damage to people or objects

DECLARATION OF WARRANTY AND LIMITATION OF LIABILITY

The manufacturer has paid proper attention to the preparation of this manual. However, nothing contained herein modifies or alters, in any way, the terms and conditions of manufacturer agreement by which this lift was acquired, nor increase, in any way, manufacturer's liability to the customer.

TO THE READER

Every effort has been made to ensure that the information contained in this manual is correct, complete and up-to date. The manufacturer is not liable for any mistakes made when drawing up this manual and reserves the right to make any changes due the development of the product, at any time.

Product Identification

The identification data of the machine are shown in the label placed on the control unit.

LOGO	
Type:
Model:
Serial Number:
Year of manufacturing:
Capacity:
Voltage:
Power:



Use the above data both to order spare parts and when getting in touch with the manufacturer (inquiry). The removal of this label is strictly forbidden.

Machines may be updated or slightly modified from an aesthetic point of view and, as a consequence, they may present different features from those shown, this without prejudicing what has been described herein.

2.1 Warranty Certificate

The warranty is valid for a period of 12 months starting from the date of the purchase invoice. The warranty will come immediately to an end when unauthorized modifications to the machine or parts of it are carried out. The presence of defects in workmanship must be verified by the Manufacturer's personnel in charge.

2.2 Technical Servicing

For all servicing and maintenance operations not specified or shown in these instructions, contact your Dealer where the machine has been bought or the Manufacturer's Commercial Department.

Packing, Transport, Storage

Only skilled personnel who are familiar with the lift and this manual shall be allowed to carry out packing, lifting, handling, transport and unpacking operations.

3.1 Packing

The packing of the lift is delivered in following components:

- N. 2 base units packed in a carton box, wrapped up in non-scratch waterproof material and sealed with 2 straps
- N. 1 power unit packed in a plywood box
- N. 1 accessories carton box , including N. 4 rubber pads, N. 3 hydraulic hoses , N. 1 power support and N. 12 anchor bolts.

(If requested, optional accessories are available to satisfy each customer's requirements).

The average weight of the package is 1150 lbs.

3.2 Lifting And Handling

When loading/unloading or transporting the equipment to the site, be sure to use suitable loading (e.g. cranes, trucks) and hoisting means. Be sure also to hoist and transport the components securely so that they cannot drop, taking into consideration the package's size, weight and center of gravity and it's fragile parts.



Hoist and handle only one package at a time

3.3 Storage And Stacking Of Packages

Packages must be stored in a covered place, out of direct sunlight and in low humidity, at a temperature between -10°C and +40°C. Stacking is not recommended: the package's narrow base, as well as its considerable weight and size make it difficult and hazardous.

3.4 Delivery And Check Of Packages

When the lift is delivered, check for possible damages due to transport and storage; verify that what is specified in the manufacturer's confirmation of order is included. In case of damage in transit, the customer must immediately inform the carrier of the problem. Packages must be opened paying attention not to cause damage to people (keep a safe distance when opening straps) and parts of the lift (be careful the objects do not drop from the package when opening).

Product Description

4.1 Lift

The lift has been designed for the lifting of motor-vehicles and for making them stand at any level between the minimum and maximum height. The maximum lifting weight, including any additional load on the vehicle, is as specified on the serial plate. All mechanical frames, such as platforms, base frames and arms have been built in steel plate to make the frame stiff and strong while keeping a low weight. 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 two platforms: P1 (1) and P2 (2) anchored to the ground by means of bases (3) and (4). Platforms are linked to the base by means of a scissors lifting system.

The lifting system of each platform is composed of N.2 arms and a cylinders: left (6) and right (5). Motion is transmitted from the cylinders to the scissor system.

Lowering and lifting are carried out by means of a control unit (7), placed next to the lift.

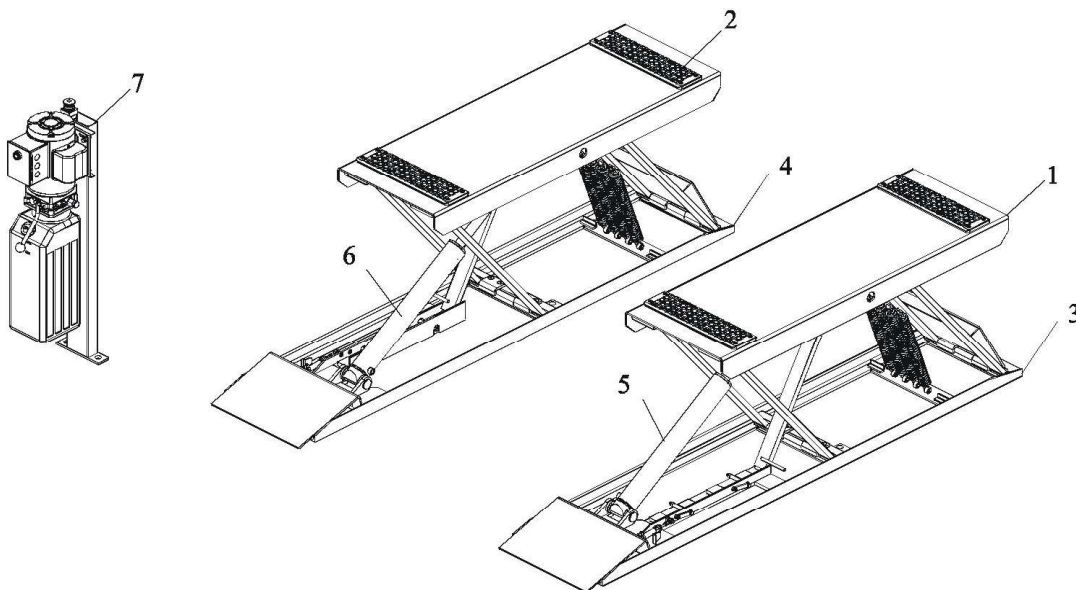


Figure 1 – Lift

4.2 Operation

Platform lifting is carried out by the hydraulic unit which acts upon the cylinders.

Lowering, even though electrically controlled, is carried out by the weight of both the platforms and the load lifted.

The hydraulic system is protected by a max pressure valve thus preventing pressure from exceeding the maximum fixed safety limit.

The synchronization of the platforms is guaranteed by the flow divider thus preventing the platforms being out of synchronization.

Before lowering, the operator must verify that neither persons nor objects are within the safety area. Then press the lowering handle and release button at the same time to lower the lift completely.

Technical Specification

5.1 Size And Main Features

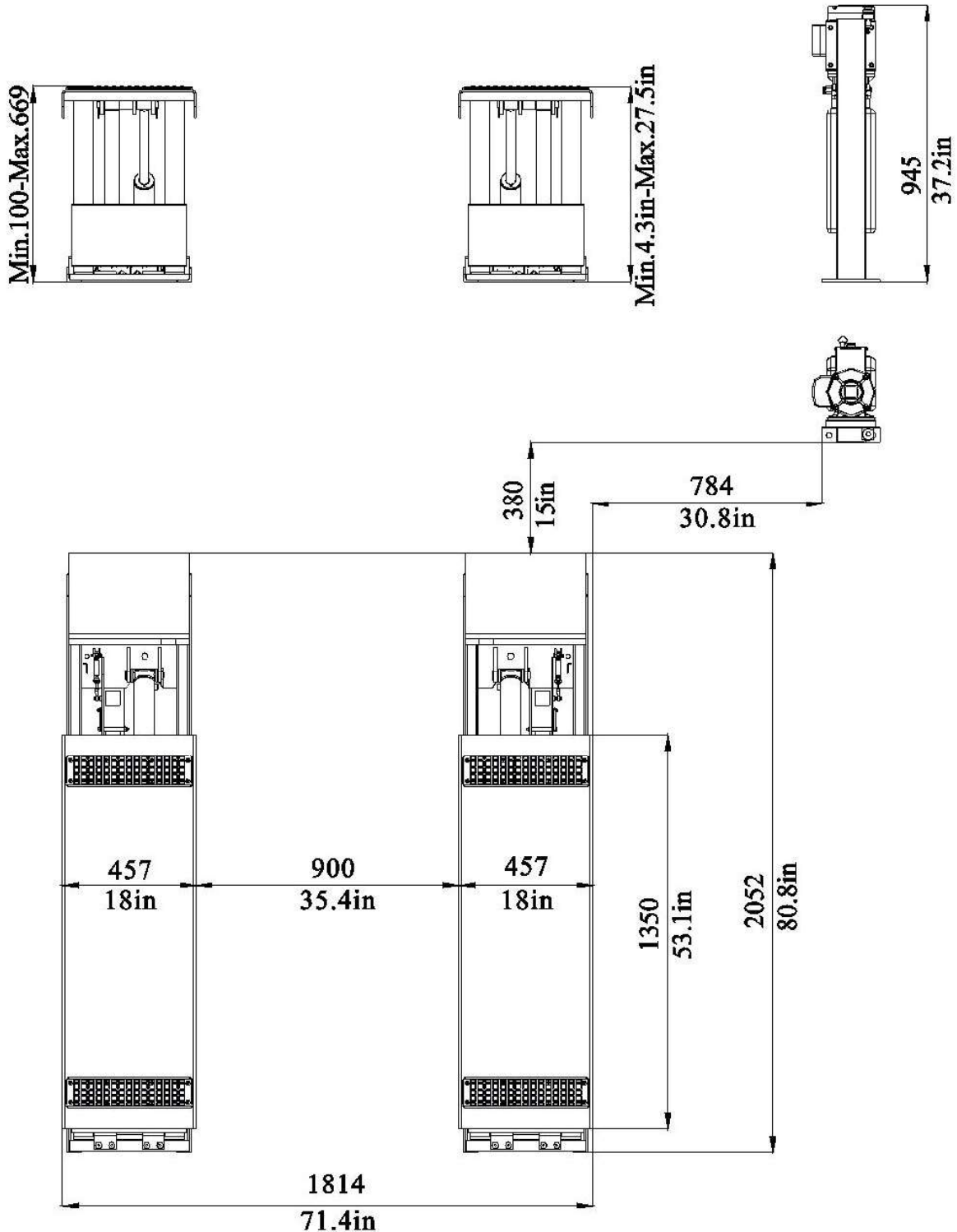


Figure 2 – Layout

Capacity	2700 kg / 6000lbs
Maximum lifting height	670 mm / 26.3in
Minimum height of lift	110 mm / 4.3in
Length of the platform	1350mm / 53.1in
Width of platforms	457 mm / 18in
Suggested width between platforms	900 mm / 35.4in
Lifting time	40 s
Noise level	70 dB(A) / 1m
Total weight of the lift	520 kg / 1150lbs
Working temperature	-10 °C ~40 °C

5.2 Electric Motor

Type	AM61-8FAM-3BA4R-4
Voltage	110V/60Hz/1Ph
Power	1.1KW
N° Poles	2
Speed	3450 rpm
Motor enclosure type	B14
Insulation class	IP 54

Motor connection must be carried out referring to the attached wiring diagrams (figure 5). The motor direction of rotation is shown in the label placed on the motor.

Before use of the lift, make sure to check if the motor specification shown in the nameplate of the motor conforms to the local electric supply. If there is over 10% fluctuation on the electrical power supply, it is suggested to use the voltage stabilizer to protect the electrical components and system from overloading.

5.3 Pump

Type	Gear
Flow rate	1.2 cm ³ /g
Continuous working pressure	160 bar
Peak pressure	200 bar

5.4 Hydraulic Unit

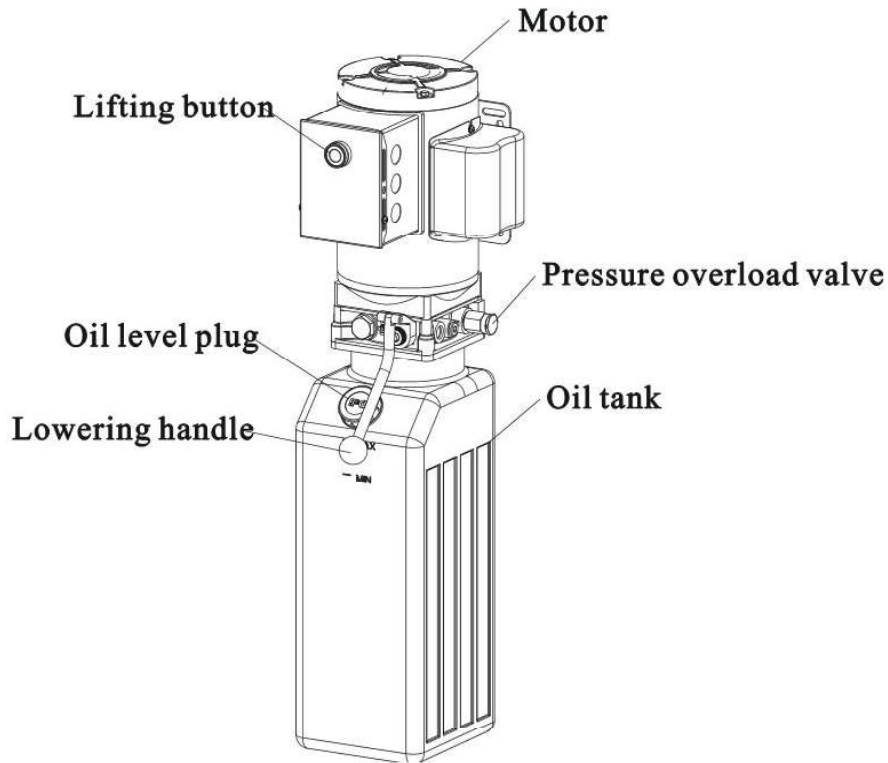


Figure 3 – Hydraulic Power Unit

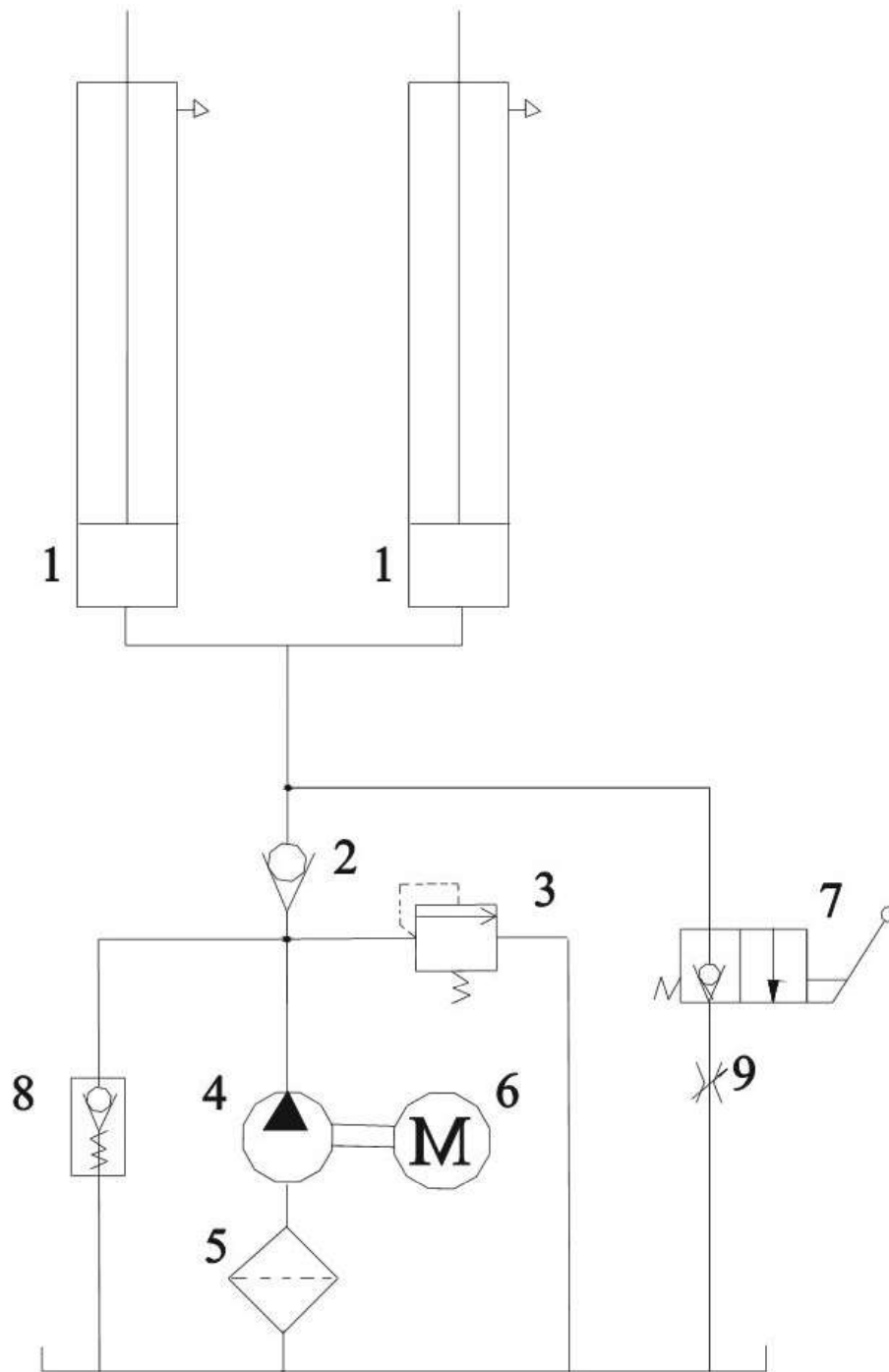
5.5 Oil

Use wear proof oil for hydraulic drive, in conformity with *ISO 6743/4* rules (HM class).

Test standards	Features	Value
ASTM D 1298	Density 20°C	0.8 kg/l
ASTM D 445	Viscosity 40°C	32 cSt
ASTM D 445	Viscosity 100°C	5.43 cSt
ASTM D 2270	Viscosity index	104 N°
ASTM D 97	Pour point	~ 30 °C
ASTM D 92	Flash point	215 °C
ASTM D 644	Neutralization number	0.5 mg KOH/g



Change hydraulic oil at 1 year intervals



1	Cylinder	6	Motor
2	Non return valve	7	Manual lowering valve
3	Maximum pressure valve	8	Starting valve
4	Gear pump	9	Lowering speed control valve
5	Oil filter		

Figure 4 - Hydraulic Plan

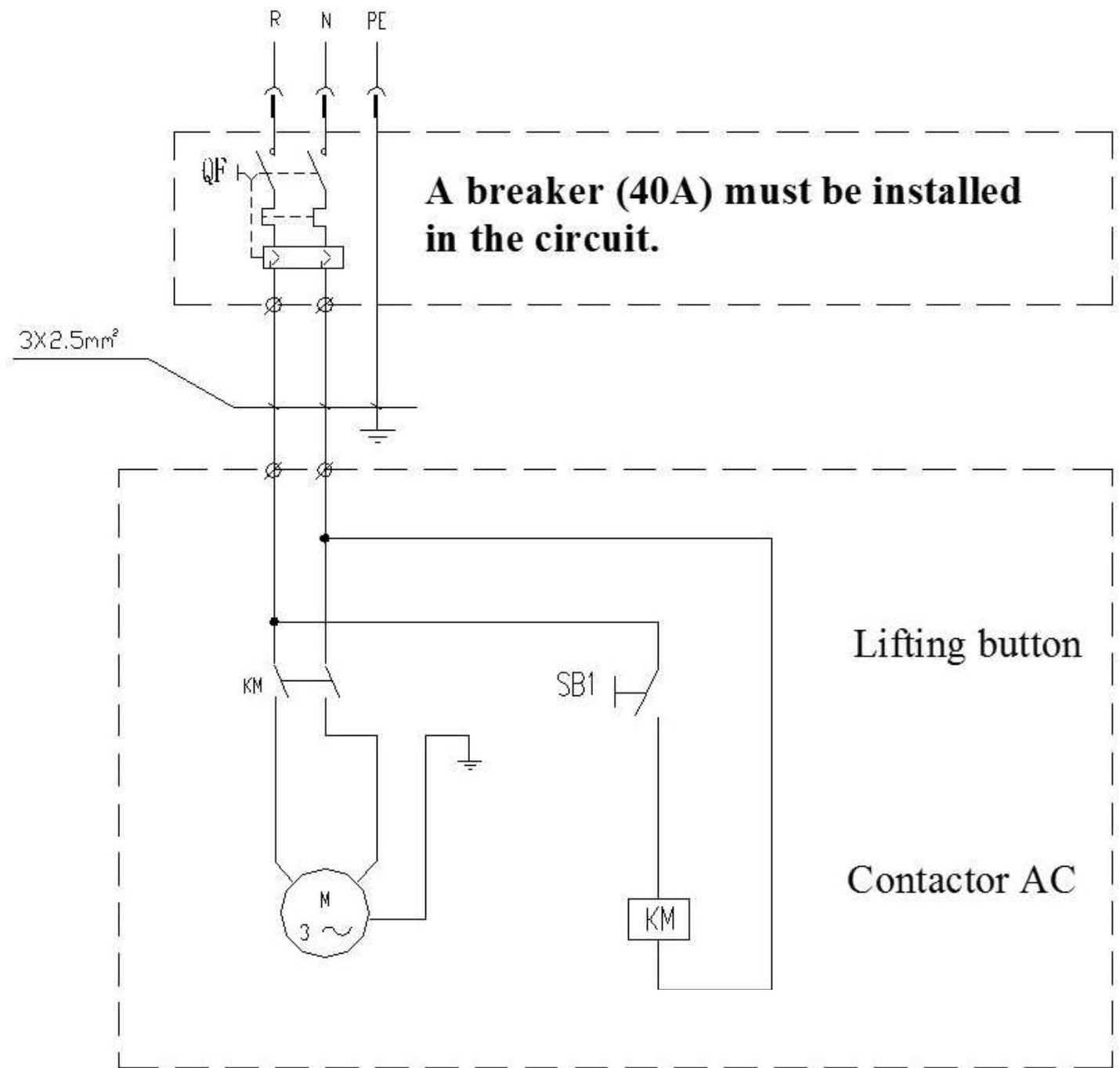


Figure 5 – Electrical Plan (115V – 1PH)

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 1m free 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 platforms are not running.



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.

6.1 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

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 platforms during lifting or standing.

6.2 Risks During Vehicle Lifting

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

- A maximum pressure valve placed inside the hydraulic unit to prevent excessive weight.
- A special design of the hydraulic system, in case of pipeline failure, to prevent sudden lift lowering.



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.

6.3 Risks For People

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

6.4 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. 6a



Fig. 6b



Fig. 6c

6.5 Bumping Risk

When the lift is stopped at relatively low height for working, the risk of bumping against projecting parts occurs.



Fig. 7

6.6 Risk Of The Vehicle Falling From The 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. 8a



Fig. 8b



Fig. 8c

6.7 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.
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Fig. 9

6.8 Electrocutation 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.

6.9 Risks Resulting From Improper Lighting

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

6.10 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. 10

6.11 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. 11



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

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.



Before carrying out any operations, remember to insert the safety piece of wood between the lower booms and the base frame.

7.1 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.

7.2 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.

7.3 Installation Surface

The lift must be placed on a 425 concrete floor with FEB 215 K reinforcement, 15cm thick at least, and in conformity with local regulations.

If a floor covering with the above mentioned requirements is not available, a foundation plate is needed or, some fixing points should be used, for fixing areas at least, having sufficient size and thickness (made of concrete of the same quality, as shown).

The surface where the lift has to be installed must be even and leveled in all directions. An inclination not higher than 2cm in drive-on lift direction and 1cm cross-wise can be balanced with leveling wedges.

For installation on raised surface, the compliance with the maximum carrying capacity of the surface is recommended.

The new concrete must be adequately cured by at least 21 days minimum.

Note:

- Remember that the lift moves rearward approximately 14" when raised. (See Fig. 12)
- After selecting a site, place each unit in position. The Cylinders MUST be placed towards the inside.(See Fig. 13)

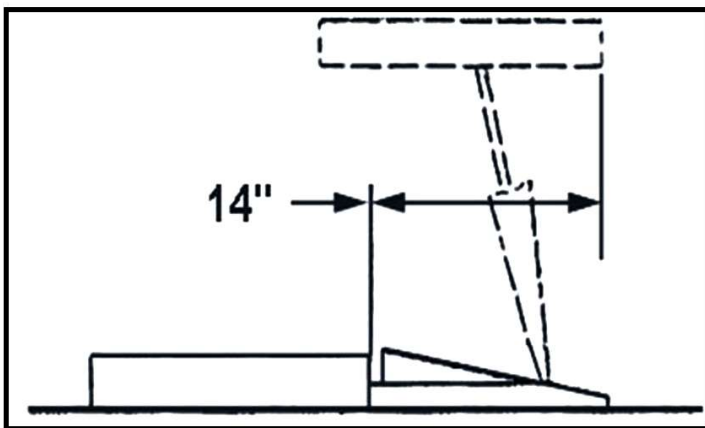


Figure 12

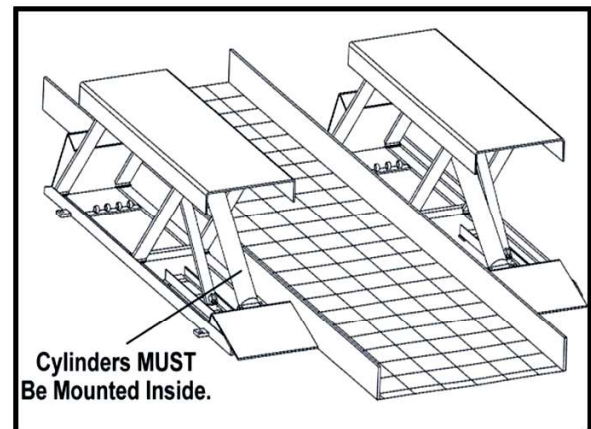


Figure 13

7.4 Runway Assembly And Control Unit Positioning



Unauthorized persons are not allowed to enter during assembly.

- Now locate the lift according to the figure 2, use a carpenter's chalk line to layout a grid for the base locations according to the drive-on direction of the lift.
- Transport platforms to the installation site by using hoisting means with load capacity of 1100 lbs at least. To prevent the platform from dropping during transport, it should be lifted according to its center of gravity.
- Always raise platforms by holding them on the underside of the bases.
- Place the control unit in the position provided for.

7.5 Hydraulic System Connection

- Following the figure 14 connect hydraulic hose to the fittings referring to the letters shown on them.
- Tighten fittings thoroughly.



Make sure that the hoses are clear of any moving parts. Make sure to keep the hoses and fittings clean from dust. Failure to do so may result in hydraulic line failure which may result in damage or personal harm.

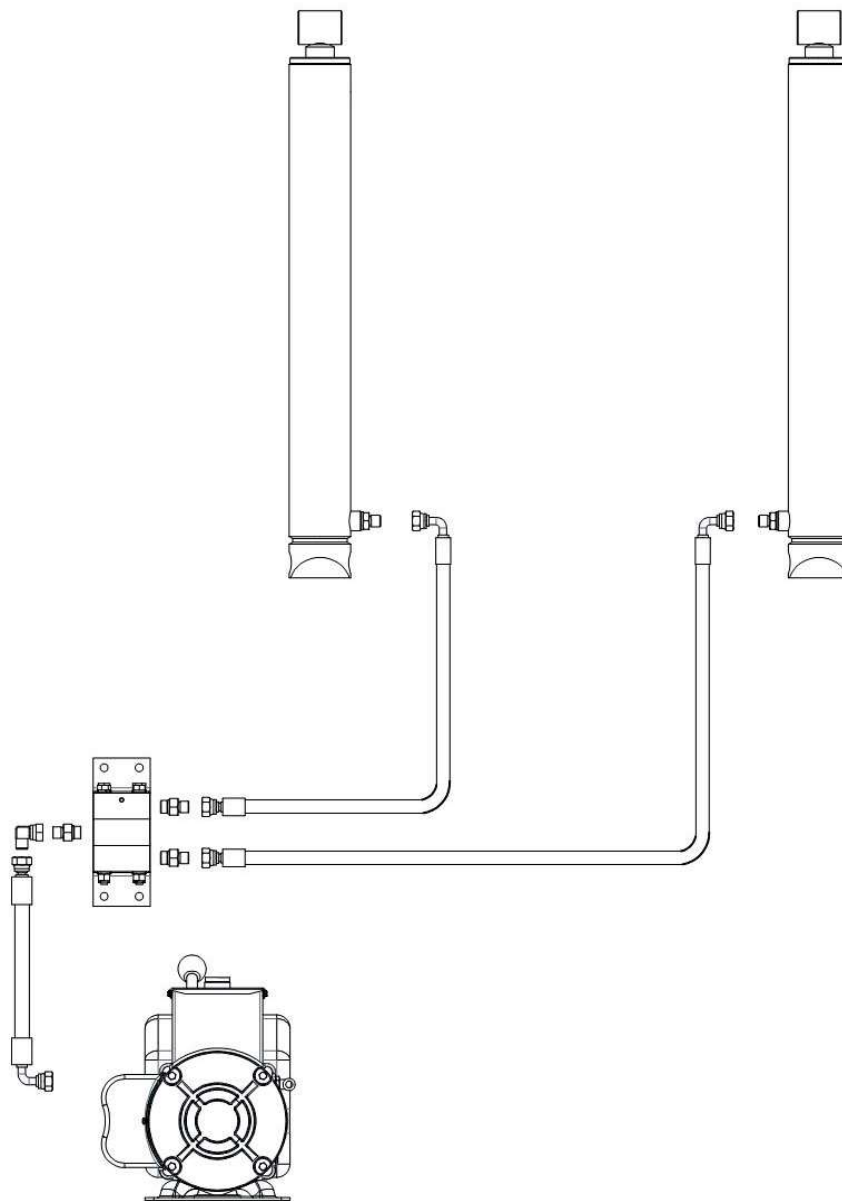


Figure 14 – Hydraulic Connection

7.6 Make The Electrical Hookup



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. Improper electrical hook-up can damage motor and will not be covered under warranty. DO NOT run the hydraulic unit with no oil. Damage to pump can occur. The control unit must be kept dry. Damage to power unit caused by water or other liquids such as detergents, acid etc., is not covered under warranty.

- Make the electric hookup to the hydraulic power unit referring to the wiring diagram figure 5 using included electric cable.
- Make sure the connection of the phases is right and the lift is grounded.

7.7 Air System Connection

Following the figure 15 connect air hose to the fittings.

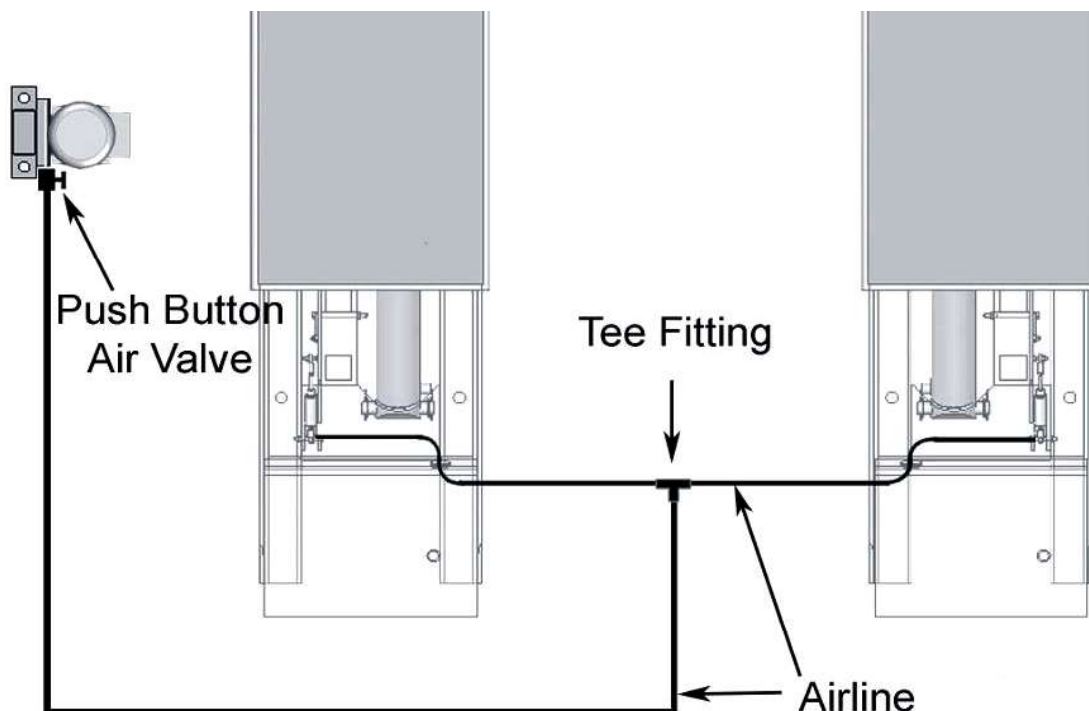


Figure 15

7.8 Feeding Oil And Bleeding



During this 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.

7.8.1 Check

- Make sure all pins and bolts to insure proper mounting
- Make sure the electrical system feeding voltage is equal to that specified in the nameplate on the motor
- Make sure the electric connections are in compliant with the wiring diagrams (Fig. 5)
- Make sure no leakage or blow-up in hydraulic line and pneumatic line
- Make sure the lift is connected to the ground


7.8.2 Start

- Be sure the working area is free from people and objects
- Verify that the control unit is powered
- Pour oil in the tank (about *8 liters more than one time*)
- Feed the lift by the power switch
- Verify that the motor direction of rotation is that shown on the label by pushing the lifting button. IF MOTOR GETS HOT OR SOUNDS PECULIAR, STOP IMMEDIATELY AND RECHECK THE ELECTRIC CONNECTIONS

7.8.3 Feeding Oil

Push the lifting button (Fig. 3) to feed the oil into the cylinders for approximate 30 seconds;

7.8.4 Bleeding The Hydraulic Line

	<p>Pay much attention: refill the oil if not enough during this procedure.</p> <p>After adjusting level of the lift, reset ordinary operating conditions.</p> <p>Do not install the safety height limit switch before the bleeding procedure.</p> <p>After adjusting level of the lift, reset ordinary operating conditions.</p> <p>Pay much attention: refill the oil if not enough during this procedure.</p>
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- Raise and lower lift six times for the cylinder self-bleeding. After bleeding, fluid level in power unit reservoir may be down. Add more fluid if necessary to raise lift to full height. It is only necessary to add fluid to raise lift to full height
- It may be necessary to disconnect hoses at the cylinders and run the power unit to completely bleed the air from the system. Consult a trained professional if you are not familiar with this type of bleeding procedure.
- To pressure test, run lift to full rise and run motor for approximate 3-seconds after lift stops. This will place pressure on the hydraulic system. Stop and check all fittings and hose connections. Tighten or reseal if required.

7.9 Anchoring The Lift

- Raise the platforms approximately 1m above the ground.
- Using the base frames as guide, drill each hole in the concrete approximately 120mm deep with the rotary hammer drill D.20. 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.
- With the shims and the supplied anchor bolts in place, tighten by securing the nut to the base.

Operation And Use



**Never operate the lift with any person or equipment below.
Never exceed the rated lifting capacity.
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.
Do not permit the electric control unit to get wet!**

8.1 Controls

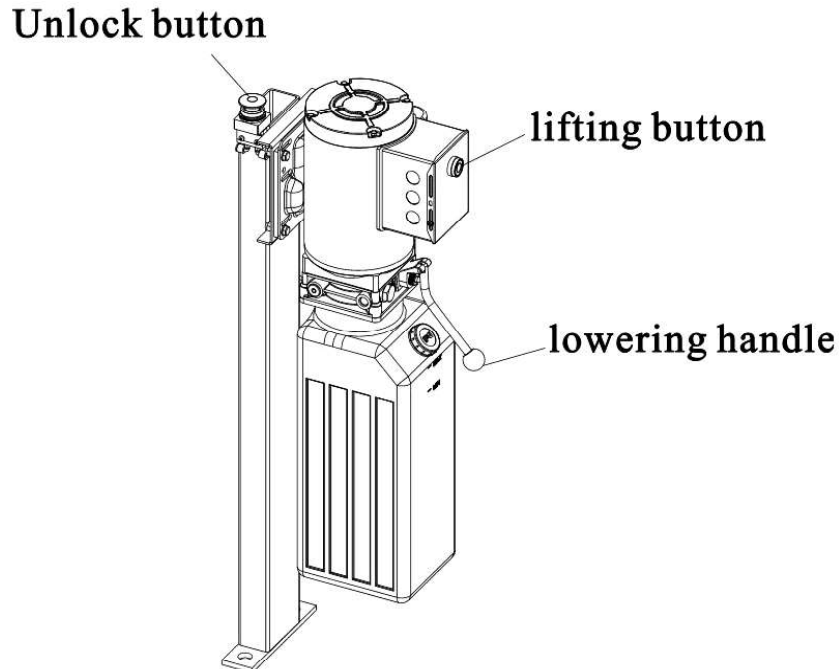


Figure 16- Control Unit

Controls for operating the lift are:

LIFTING BUTTON

- When pressed, the electric circuit for the lift operates the motor and hydraulic circuit to raise the lift

LOWERING HANDLE

- When pressed, the hydraulic fluid is released from the cylinder to the oil tank: the lift starts to descend.

UNLOCK BUTTON

- When pressed, the mechanical safety lock is released.



Be sure the safety area is free from people and objects during lowering travel

Lift operation can be summarized into four steps:

8.2 Lifting

- Place the vehicle at the center of the platform;
- Check to make sure that the vehicle is secured;
- Place pads under the positions indicated for lifting, by the motor vehicle's manufacturer;
- push the lifting button to lift the vehicle to the required height;
- To rest the lift in standing position by releasing the lifting button.

8.3 Lowering

- Clear area of personal and tools above and below before lowering lift.
- Raise the lift until at least two inches to provide adequate clearance for the safety to operate.
- Press and hold the unlock button to visually confirm both of safety lock have been released successfully.
- Continue pressing the lowering handle to fully lower the lift.
- Remove all lifting adaptors before driving vehicle away.

Maintenance



Only trained personnel who knows how the lift works, must 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 dealer to carry out maintenance:

- functional drawing of the electric and hydraulic equipment
- exploded views with all data necessary for spare parts ordering
- list of possible faults and relevant solutions.



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

9.1 Ordinary Maintenance

The lift has to be properly cleaned at least once a month using self-cleaning clothes. Lubricate all pivot pins at least once a week.



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.

9.2 Periodic Maintenance

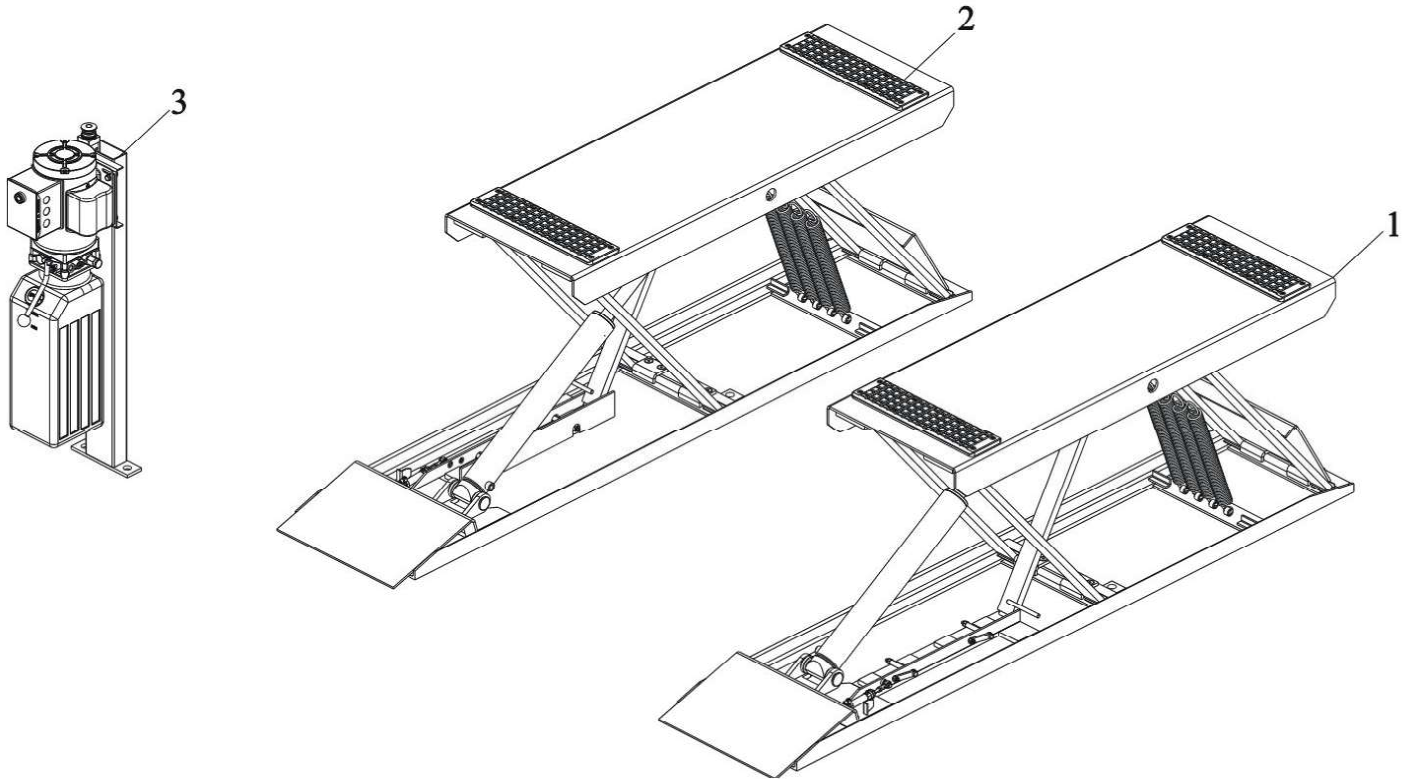
Every 3 months	Hydraulic circuit	<ul style="list-style-type: none"> • check oil tank level; refill with oil, if needed; • check the circuit for oil leakage. • check seals for proper conditions and replace them, if necessary;
	Foundation bolts	<ul style="list-style-type: none"> • check bolts for proper tightening
	Hydraulic pump	<ul style="list-style-type: none"> • verify that no noise changes take place in the pump when running and check fixing bolts for proper tightening
	Safety system	<ul style="list-style-type: none"> • check safety devices for proper operation
Every 6 months	Oil	<ul style="list-style-type: none"> • check oil for contamination or ageing. Contaminated oil is the main reason for failure of valves and shorter life of gears pumps
Every 12 months	General check	<ul style="list-style-type: none"> • verify that all components and mechanisms are not damaged
	Electrical system	<ul style="list-style-type: none"> • a check of the electrical system to verify that control unit motor

Troubleshooting

A list of possible troubles and solutions is given below.

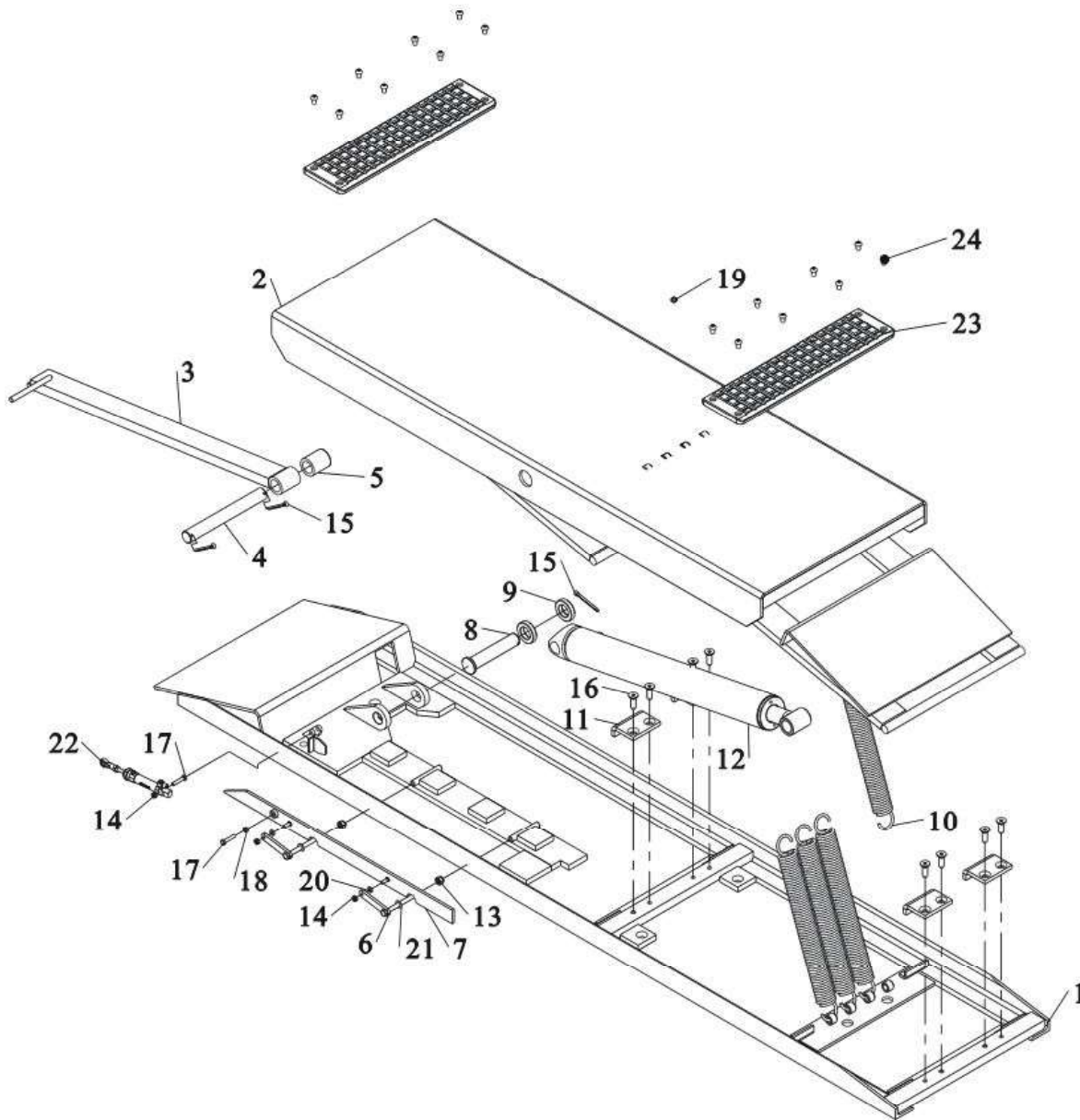
Trouble:	Possible Cause:	Solution:
The lift does not work	There is no power	Check power and restore if necessary
	The electrical wires are disconnected	Replace
	Fuses are blown	Replace
The lift does not raise when the lifting button is pressed	The motor direction of rotation is not correct	Interchange the phases on the main switch
	The oil in the hydraulic unit is not sufficient	Add some hydraulic oil
	The lifting button is faulty	Check the lifting button and connection for proper operation. Replace, if needed
	The suction pump filter is dirty	Check and clean if needed
The lift does not lower when the lowering handle is pressed	The lowering valve does not work	Verify if it is damaged
	The flow divider is blocked	Check and clean if needed
	The hydraulic hose is blocked	Check and clean if needed
The lift isn't raising synchronous	Presence of air in the hydraulic circuit	Bleed the hydraulic circuit
	The cylinder gaskets can be damaged	Check and replace if necessary
The lifting capacity is not sufficient	The oil in the tank is not enough	Fill oil in the tank
	The pump is faulty	Check the pump and replace if necessary
	The maximum pressure valve is not adjusted correctly	Adjust correctly
The lift does not lift or lower smoothly	Leakages or presences of air into hydraulic circuit	Bleed the hydraulic system
	The pump filter is dirty.	Check and clean if needed.
	The pump suction is blown	Check the seal and replace if needed

Parts List



ITEM	PART NO.	DESCRIPTION	QTY
1	J53B001000	Runway P1	1
2	J53B002000	Runway P2	1
3	J53B004000	Control unit	1

Runway P1 Breakdown

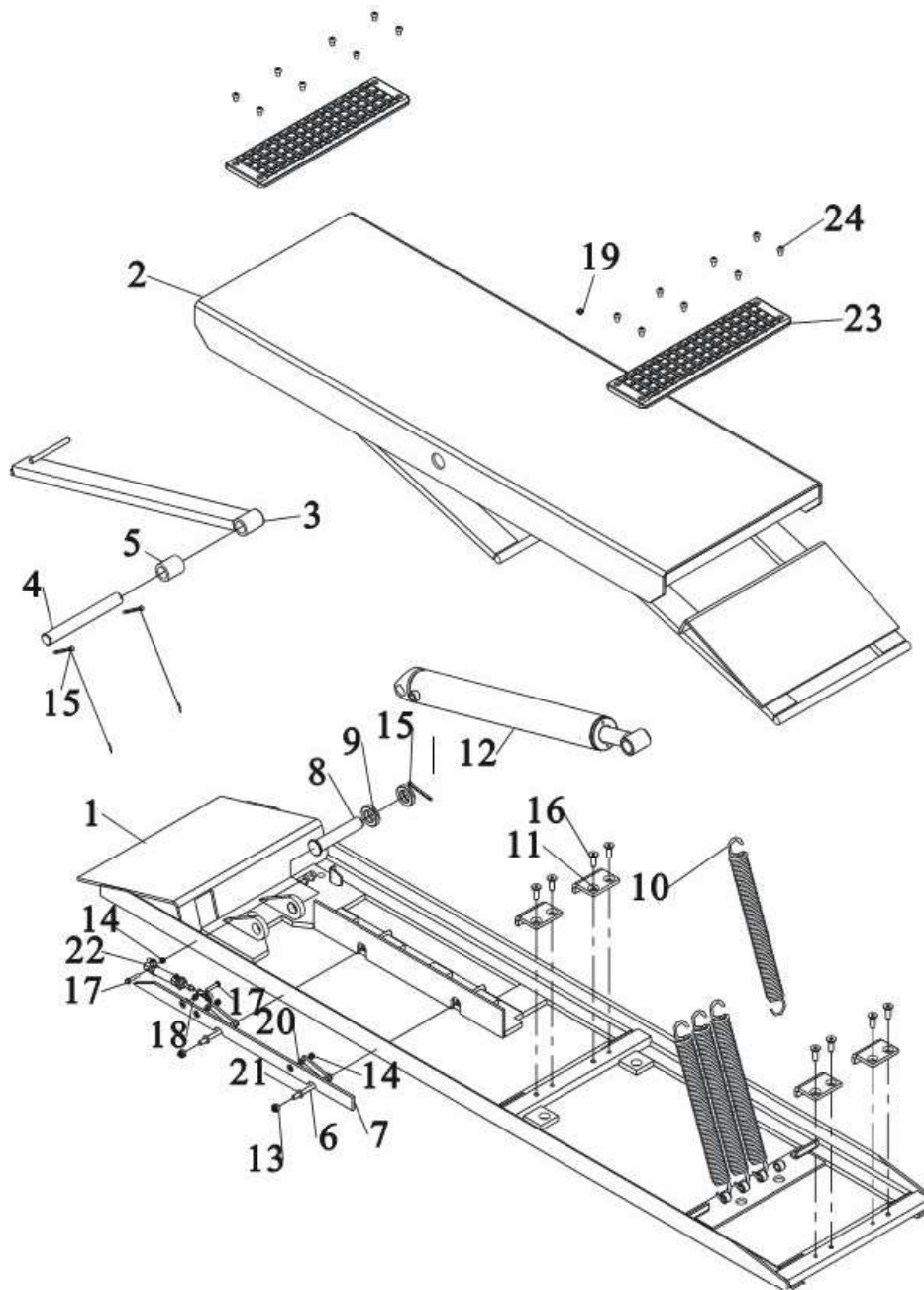


Runway P1 List

ITEM	PART NO.	DESCRIPTION	QTY
1	J53B001100	P1 base	1
2	J53B001200	P1 platform	1
3	J53B001600	P1 lock arm	1
4	J53B001002	Pin	1
5	J53B001001	Bush	1
6	J53B001700	Shaft	2
7	J53B001800	Lock release plate	1

8	J53B001007	Pin	1
9	J53B001003	Bush	2
10	J53B001004	Spring	4
11	J53B001005	Cover	4
12	J53BY60000	Hydraulic cylinder	1
13	0204004	Nut M8 - GB/T889.1	2
14	0204003	Nut M6 - GB/T889.1	3
15	0213113	Split pin 5X50 -GB/T91	3
16	0207047	Screw M10X30 - GB/T70.3	8
17	0201019	Screw M6X30 - GB/T5783	2
18	0203035	Nut M6 - GB/T6170	1
19	0215041	Greaser M6X1 - GB/T1152	1
20	0205006	Washer D.6-GB/T97.1	2
21	0205008	Washer D.8-GB/T97.1	2
22	J53BQ00100	Air cylinder	1
23	J44A000002	Rubber	2
24	0206061	Screw M8X12 - GB/T70.2	16

Runway P2 Breakdown

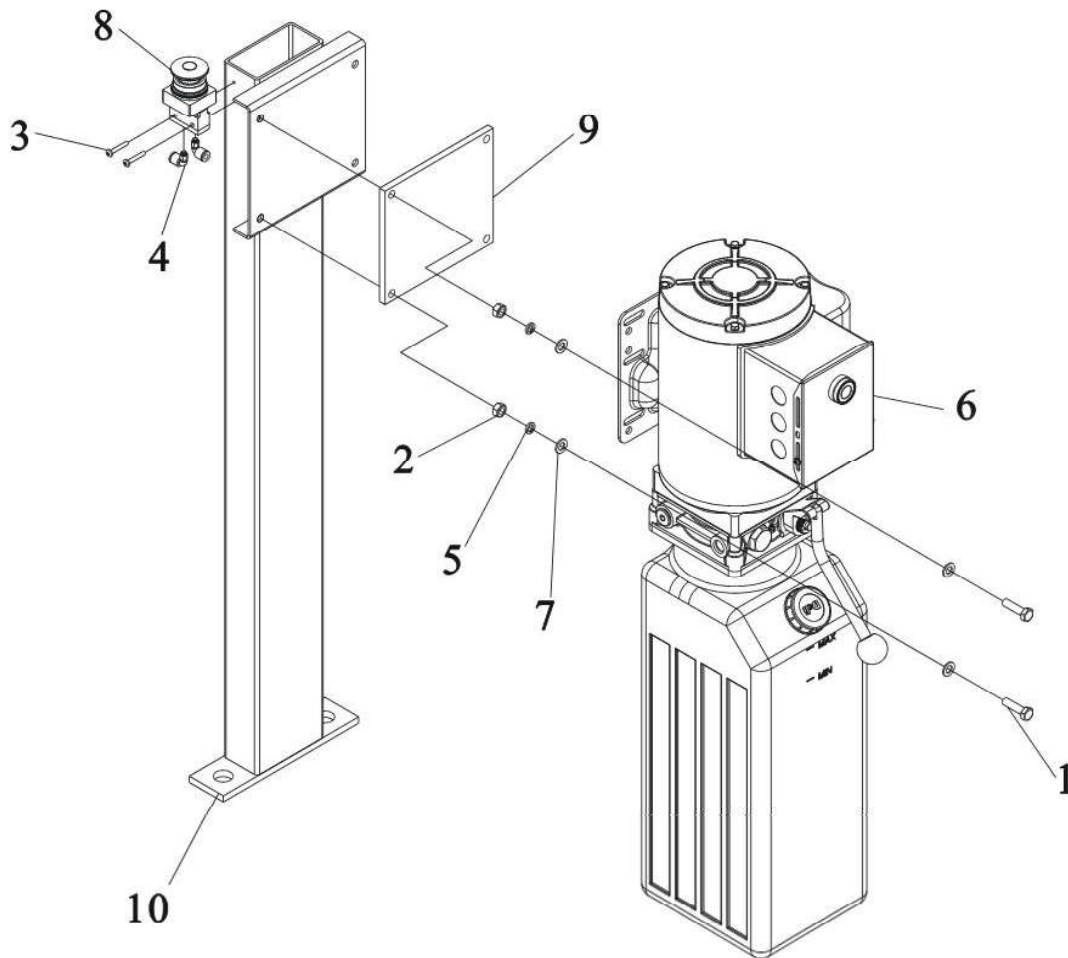


Runway P2 List

ITEM	PART NO.	DESCRIPTION	QTY
1	J53B002100	P2 base	1
2	J53B002200	P2 platform	1
3	J53B002500	P2 lock arm	1
4	J53B001002	Pin	1
5	J53B001001	Bush	1

6	J53B001700	Shaft	2
7	J53B002400	Lock release plate	1
8	J53B001007	Pin	1
9	J53B001003	Bush	2
10	J53B001004	Spring	4
11	J53B001005	Cover	4
12	J53BY60000	Hydraulic cylinder	1
13	0204004	Nut M8 - GB/T889.1	2
14	0204003	Nut M6 - GB/T889.1	3
15	0213113	Split pin 5X50 -GB/T91	3
16	0207047	Screw M10X30 - GB/T70.3	8
17	0201019	Screw M6X30 - GB/T5783	2
18	0203035	Nut M6 - GB/T6170	1
19	0215041	Greaser M6X1 - GB/T1152	1
20	0205006	Washer D.6-GB/T97.1	2
21	0205008	Washer D.8-GB/T97.1	2
22	J53BQ00100	Air cylinder	1
23	J44A000002	Rubber	2
24	0206061	Screw M8X12 - GB/T70.2	16

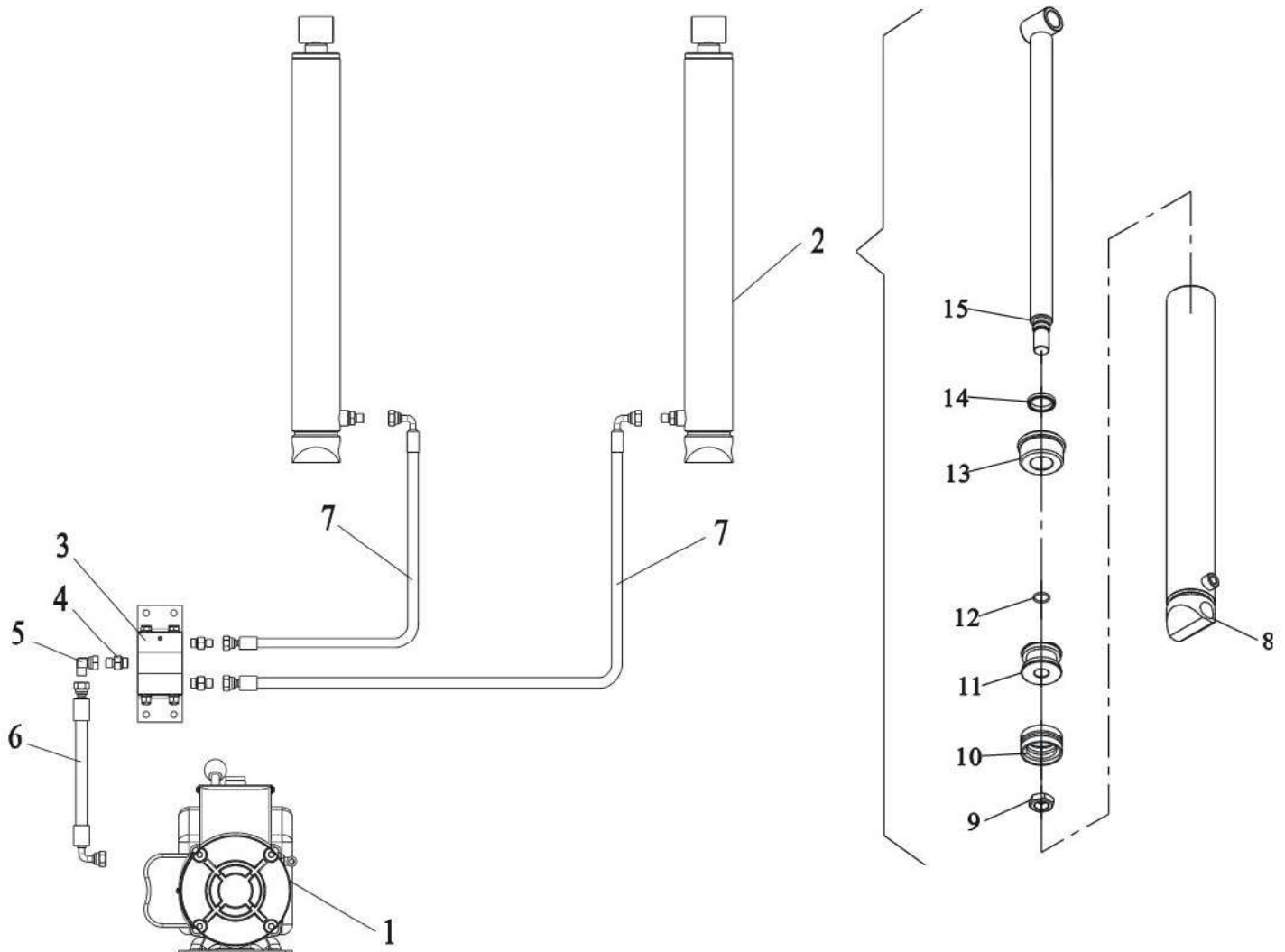
Control Unit Breakdown



Control Unit List

ITEM	PART NO.	DESCRIPTION	QTY
1	0201031	Screw M8X30 - GB/T5783	4
2	0203029	Nut M8 - GB/T6170	4
3	0206017	Screw M4X25 - GB/T818	2
4	0306166	Quick joint	2
5	0208006	Lock washer D.8 - GB/T93	4
6	0302015	Hydraulic power unit /YBZ6-E1.2B8F1/ AMQOT3-2320 (110V)	1
7	0205008	Washer D.8 - GB/T97.1	8
8	J53BQ00200	Release button	1
9	J53B000001	Rubber	1
10	J53B000100	Power unit support frame	1

Hydraulic Cylinders Breakdown



Hydraulic Cylinders List

ITEM	PART NO.	DESCRIPTION	QTY
1	0302015	Hydraulic power unit /YBZ6-E1.2B8F1/AMQOT3-2320 (110V)	1
2	J53BY60000	Hydraulic cylinder	2
3	0307129	Flow divider /FMK-2N0.63S	1
4	0303092	Union 1BO-04-06	3
5	0303073	Union 90 degree union 2B9-04	1
6	ZW(5/16)3100 ZW(04-05)	Hydraulic hose L=3100	1
7	ZW3550	Hydraulic hose L=3550	2
8	J53BY61000	Cylinder liner	1

9	0204048	Nut M22X1.5 -GB/T6173	1
10	0312002	Seal 60X44X18.4	1
11	YC8-60-3	Piston	1
12	0309022	O-ring 24X2.4	1
13	J53BY60003	Cylinder guiding cover	1
14	0311026	Scraper DH32X40X5/6.5	1
15	J53BY62000	Piston Rod	1

Warranty



This item is warranted for two (2) years on structural components and one (1) year on air or electric hydraulic power units, pneumatic power units, cylinders and major components from date of invoice. Wear items are covered by a 90 day warranty.

This LIMITED warranty policy does **not include a labor** warranty.

NOTE: ALL WARRANTY CLAIMS MUST BE PRE-APPROVED BY THE MANUFACTURER TO BE VALID.

The Manufacturer shall repair or replace at their option for this period those parts returned to the factory freight prepaid, which prove after inspection to be defective. This warranty will not apply unless the product is installed, used and maintained in accordance with the Manufacturers installation, operation and maintenance instructions.

This warranty applies to the ORIGINAL purchaser only, and is non-transferable. The warranty covers the products to be free of defects in material and workmanship but, does not cover normal maintenance or adjustments, damage or malfunction caused by: improper handling, installation, abuse, misuse, negligence, carelessness of operation or normal wear and tear. In addition, this warranty does not cover equipment when repairs or alterations have been made or attempted to the Manufacturer's products.

THIS WARRANTY IS EXCLUSIVE AND IS LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FROM A PARTICULAR PURPOSE, AND ALL SUCH IMPLIED WARRANTIES ARE EXPRESSLY EXCLUDED.

THE REMEDIES DESCRIBED ARE EXCLUSIVE AND IN NO EVENT SHALL THE MANUFACTURER, NOR ANY SALES AGENT OR OTHER COMPANY AFFILIATED WITH IT OR THEM, BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OF OR DELAY IN PERFORMANCE OF THIS WARRANTY. THIS INCLUDES, BUT IS NOT LIMITED TO, LOSS OF PROFIT, RENTAL OR SUBSTITUTE EQUIPMENT OR OTHER COMMERCIAL LOSS.

PRICES: Prices and specifications are subject to change without notice. All orders will be invoiced at prices prevailing at time of shipment. Prices do not include any local, state or federal taxes.

RETURNS: Products may not be returned without prior written approval from the Manufacturer.

DUE TO THE COMPETITIVENESS OF THE SELLING PRICE OF THESE LIFTS, THIS WARRANTY POLICY WILL BE STRICTLY ADMINISTERED AND ADHERED TO.