

INSTALLATION & OPERATION MANUAL



Atlas RJ-6 6,000 lb. Capacity Center Rolling Jack



Atlas Automotive Equipment
www.atlasautoequipment.com
(866) 898-2604

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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Important Information

This manual has been written to be used by shop technicians in charge (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 jacking beam. 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 CENTRES 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 jacking beam is improperly used.

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

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

- keep the manual near the jacking beam, 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 jacking beam 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 jacking beam: it shall be given to the new owner if and when the lift is resold.

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

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 jacking beam 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.

Specifications

2.1 Description

This hydraulic jacking beam has been designed to be placed on a lift for maintenance of vehicles. This chapter describes the unit's principal elements, allowing the user to be familiar with the jacking beam.

As shown in figure 1, the jacking beam is composed of the base unit (1) and an air-hydraulic pedal pump (2) which can be placed on the holder (3).

Raising motion or lowering motion of the jack is carried out by operating the pump as shown in the chapter 4.

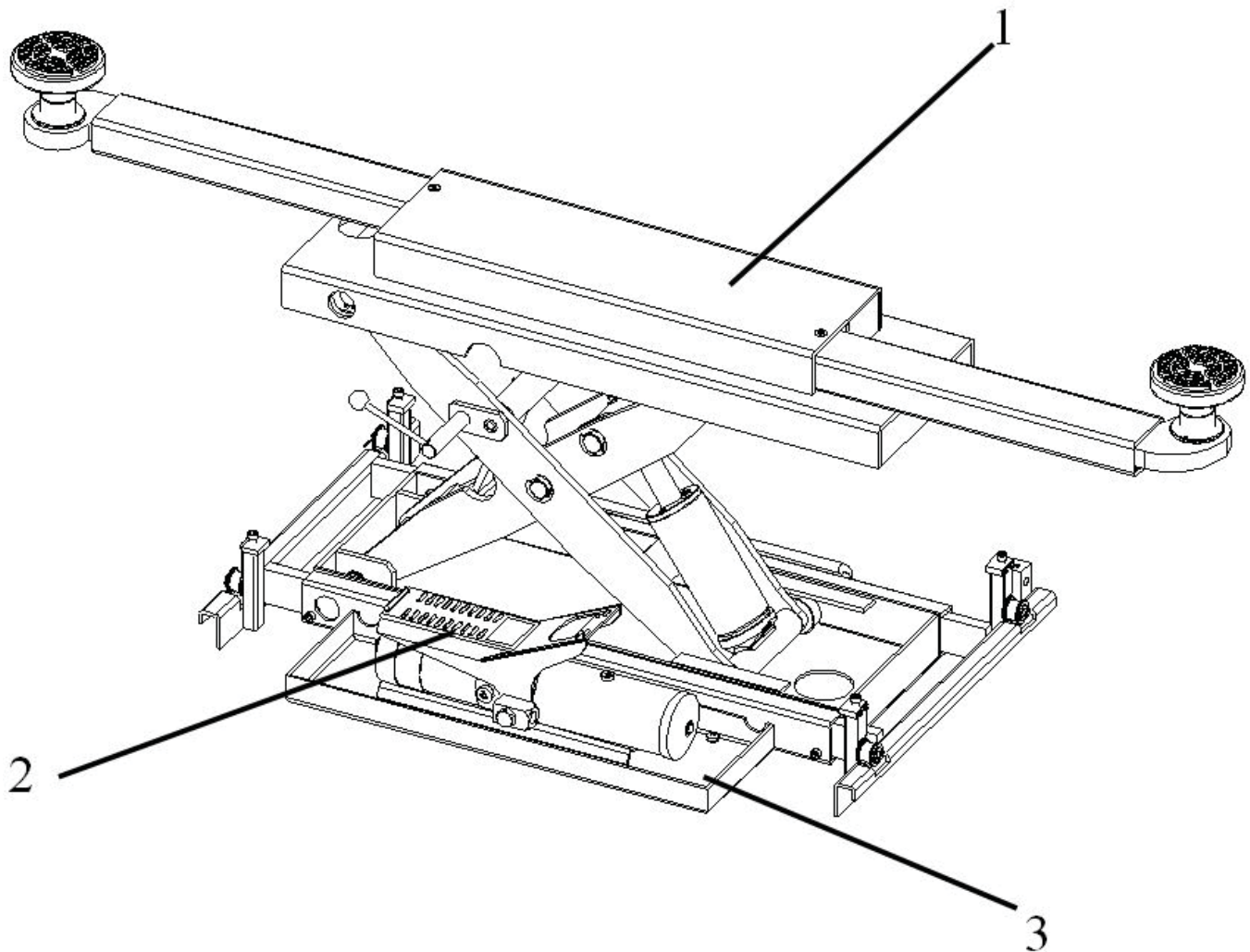


Figure 1

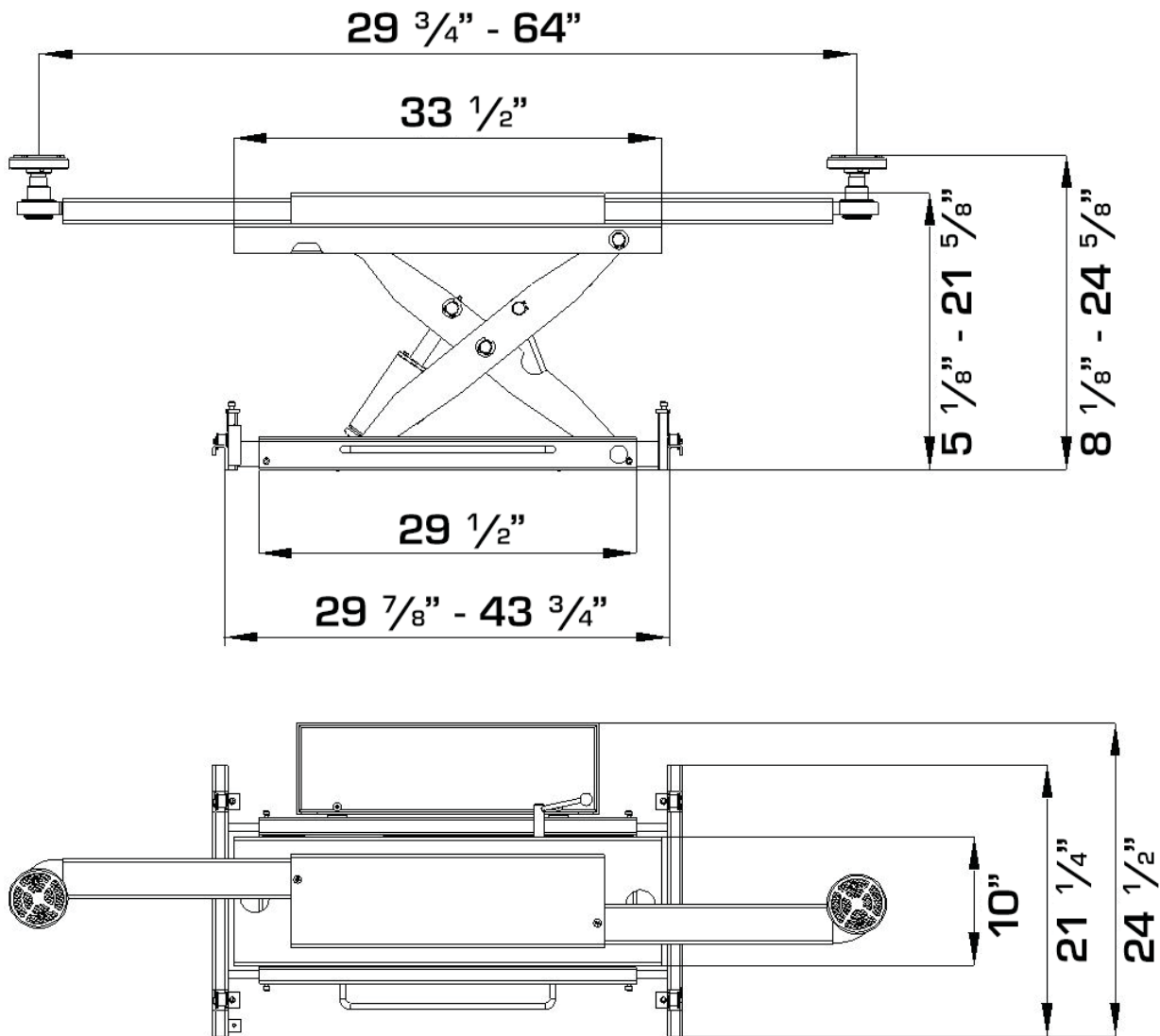
2.2 Main Features

Capacity	6000 lbs
Max. lifting height with no pad extensions	24 5/8"
Min. lowered height	8 1/8"
Lifting points adjusted	29 3/4" - 64"
Base adjustable	29 7/8" - 43 3/4"
Lifting time	20 s
Noise level	70 dB(A)/1m
Working temperature	32 °F - 104 °F
Average weight of the package	330 lbs

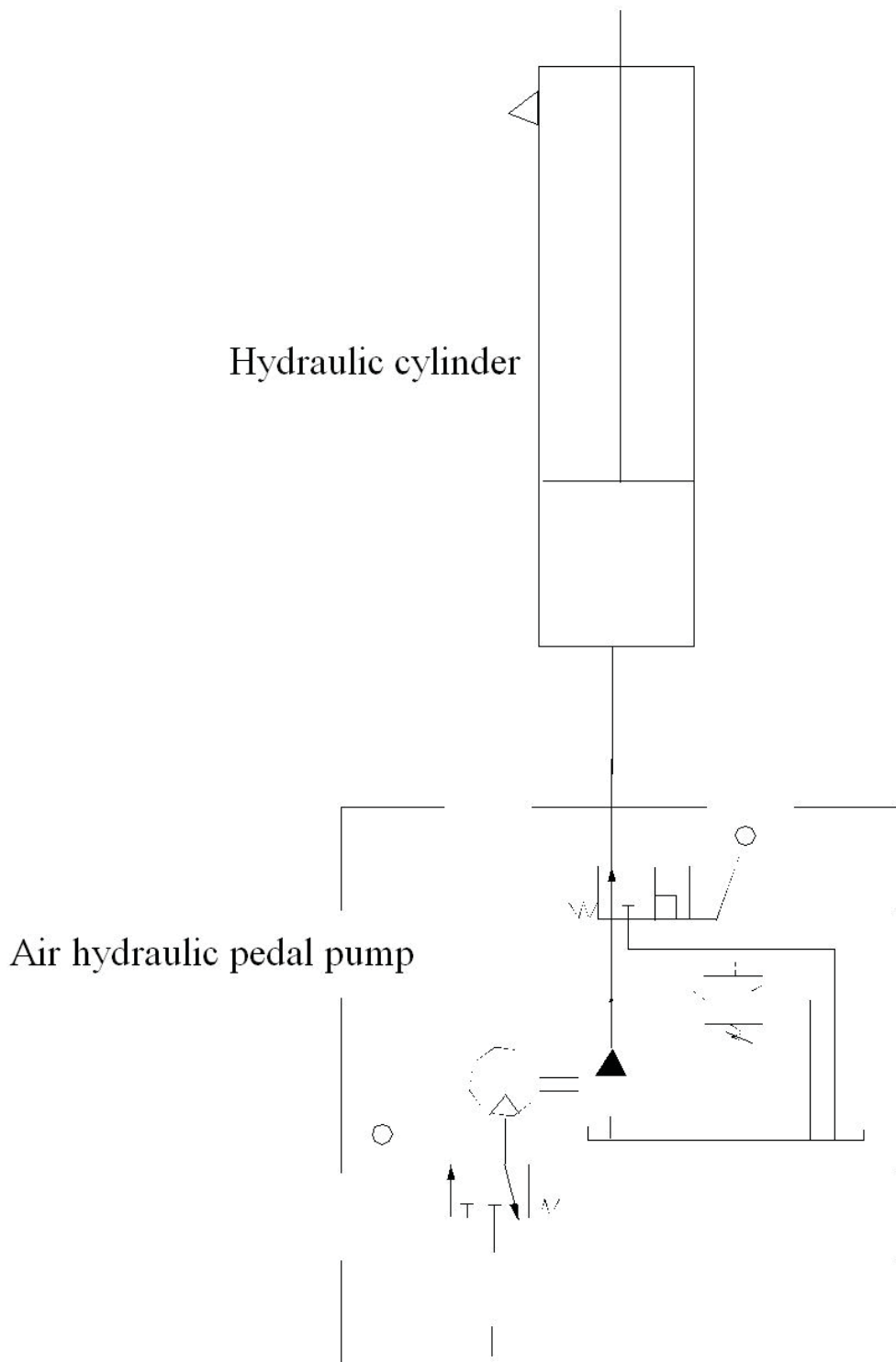
2.3 Pump

Type	Air-hydraulic
Compressed air pressure	70 – 105 psi
Max. working hydraulic pressure	(10000 psi)
Volume of oil reservoir	750cc

2.4 Layout



2.5 Hydraulic Plan



Installation

3.1 Line Connection

- Connect hydraulic hose to the fittings;
- Tighten thoroughly;
- Connect the air-hydraulic pump to the pneumatic supply at site;
- Check the pneumatic control operations for proper performance.

 **The pneumatic supply at site must be equipped with a servicing unit composed of water separator, lubricator and pressure reducer.**

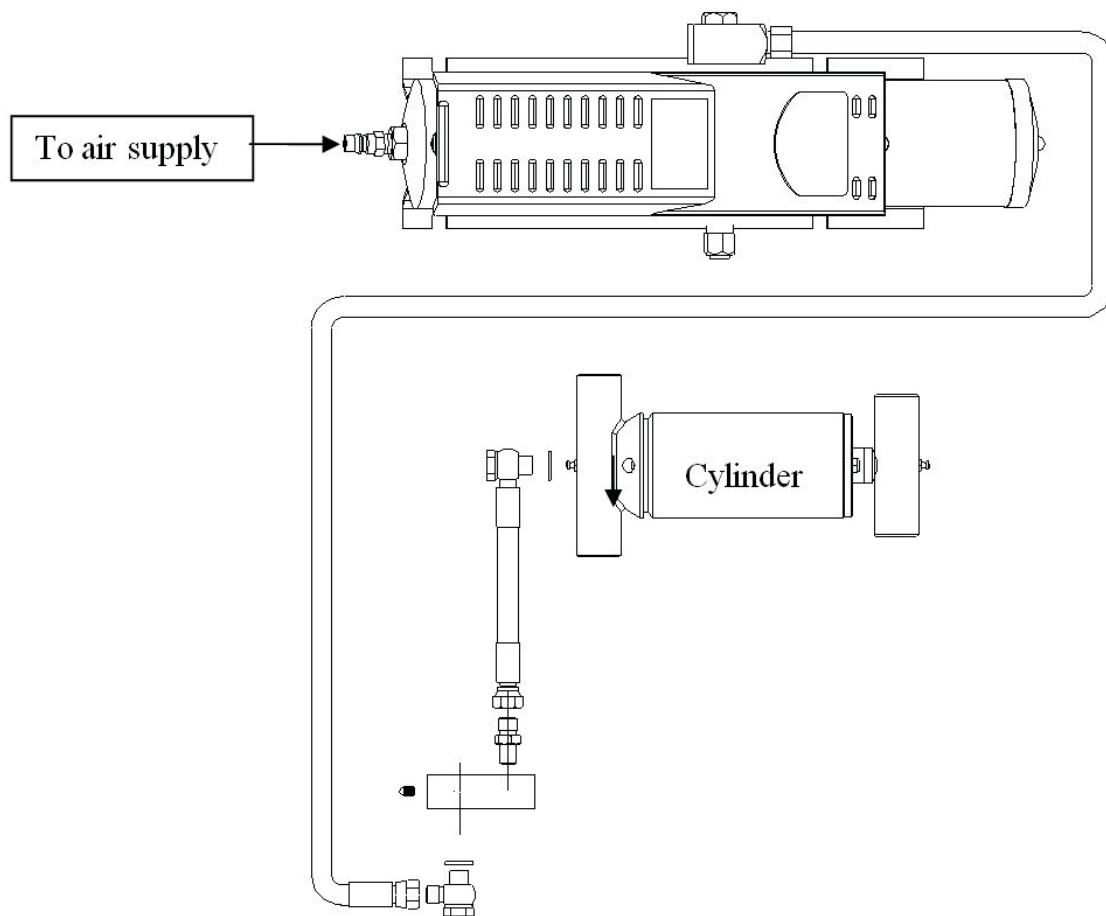


Figure 2 – Line Connection

Operation



Never operate the lift with any person. Never exceed the rated lifting capacity. Never raise the jack more than the rated height.

4.1 Controls

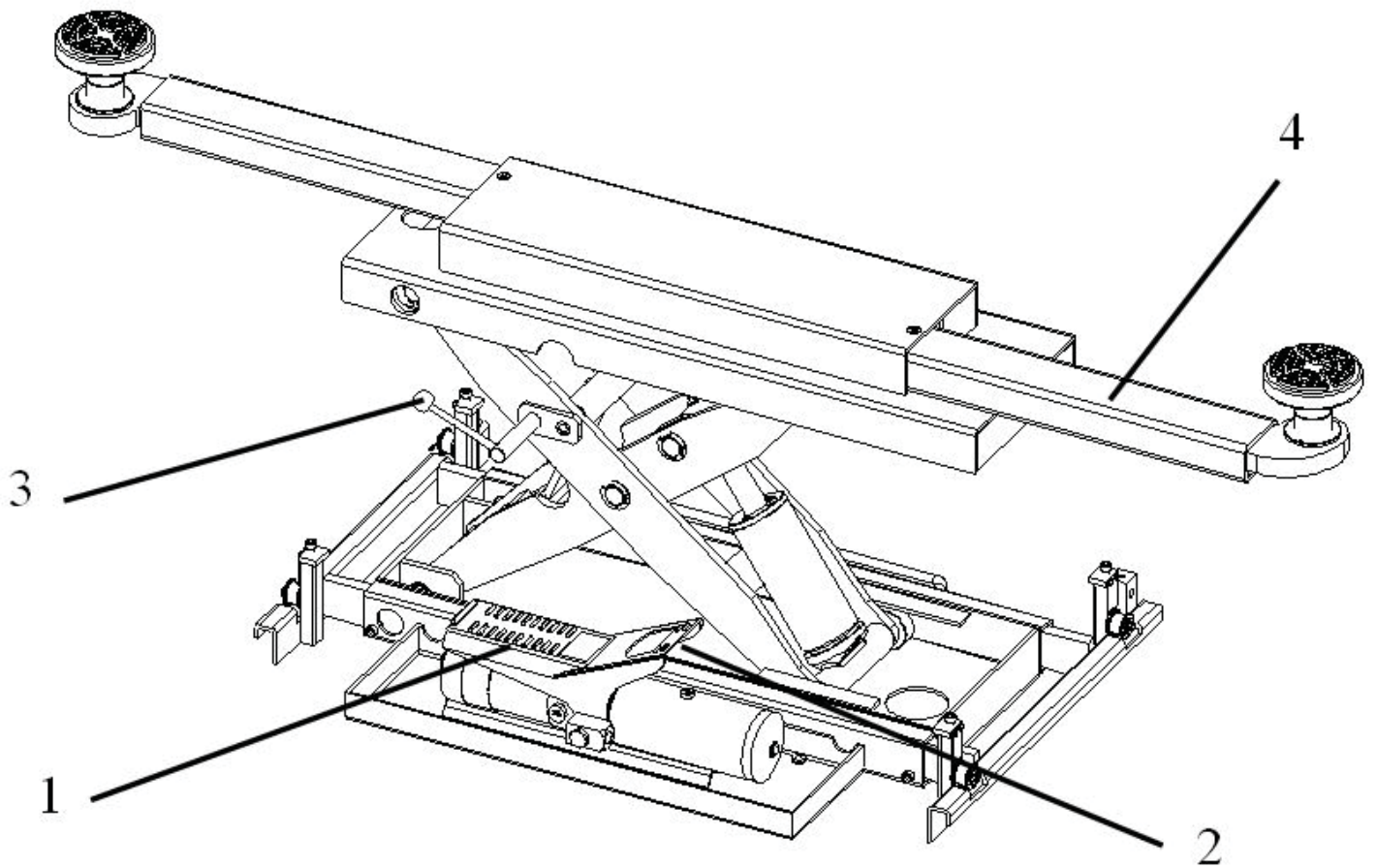


Figure 3 – Controls Of Jacking Beam

Controls for operating the jack are:

Lifting Side Of Pedal (1)

- When pressed, the hydraulic fluid is delivered from the oil reservoir of the pump into the jack cylinder to raise the jack.


Lowering Side Of Pedal (2)

- When pressed, the hydraulic fluid is released from the jack cylinder into the oil reservoir of the pump to lower the jack under the weight loaded. The lowering speed can be controlled by the pressing force.

Safety Release Handle (3)

- Flip the safety release handle up off the safety.

Jack Lifting Arm (4)

	<p>Never operate the jacking beam with any person. Never exceed the rated lifting capacity. Always ensure that the mechanical safeties are engaged before any attempt is made to work on or near the vehicle.</p>
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4.2 Lifting

	<p>Never raise the jack beam over high than the rated height. The manufacturer will not be responsible for the damage because of the incorrect operation.</p>
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- Check and keep the rail channel clean of debris and any object that may hinder the movement of the jacking beam.
- Lower the jack fully by depressing the lowering side of the pedal.
- Adjust the width of the jack lifting arms so that the rubber pads can contact the lifting points of the vehicle recommended by the vehicle manufacturer.
- Raise the jack by depressing the lifting side of the pedal. Keep an eye on the jack when the rubber pads contact the vehicle to ensure the proper contact. Adjust the width of the jack lifting arms if necessary.

4.3 Standing

- Stop raising the jack just as vehicle is raised off the lift runways. Confirm the vehicle is stable and seated properly before lifting the vehicle to the desired height.
- After the vehicle is raised to the desired height, lower the jack to the nearest safeties.

4.4 Lowering

- Be sure the safety area is free of people and objects.
- Raise the jack high enough to clear off the mechanical safeties and then flip the safety release handle up off the safeties.
- Lower the jack fully by keeping pressing the lowering side of the pedal.

Maintenance



Only trained personnel who knows how the lift works, must be allowed to service the lift.

To service properly the lifting jack, 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.

5.1 Ordinary Maintenance

The jack has to be properly cleaned at least once a month. Use 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.

5.2 Periodic Maintenance

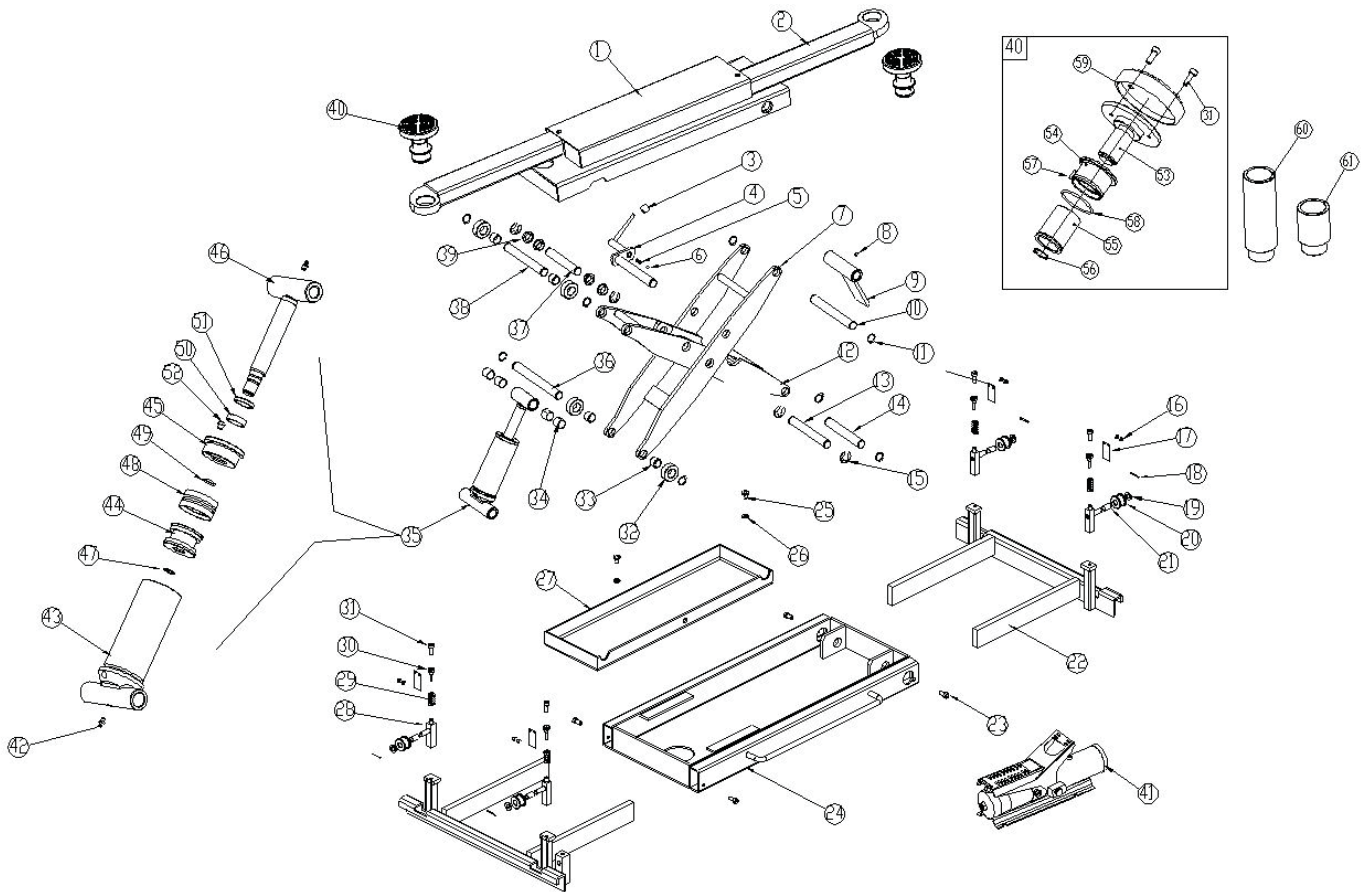
Every 3 months	Hydraulic circuit	<ul style="list-style-type: none">• check oil level in the pump reservoir; refill with oil, if needed;
		<ul style="list-style-type: none">• check the circuit for oil leakage.
Every 6 months	Oil	<ul style="list-style-type: none">• Check oil for contamination or ageing. Contaminated oil is the main reason for failure of valves and shorter life of the pump
Every 12 months	General check	<ul style="list-style-type: none">• verify that all components and mechanisms are not damaged

Troubleshooting

A list of possible troubles and solutions is given below:

Trouble:	Possible Cause:	Solution:
The jack does not raise	The oil in the pump reservoir is not sufficient	Add hydraulic oil
	The pump is faulty	Check and replace if necessary
The lifting capacity is not sufficient	The hydraulic pump is faulty	Check the pump and replace, if needed
The jack does not lower	The pump is faulty	Check and replace if necessary
The jack does not lower smoothly	Air in the hydraulic system	Bleed the hydraulic system

Parts List



Item	Part number	Description
1	J07K210000	Top beam
2	J07K220000	Lifting arm
3	0215016	Handle knob M8X25
4	HJ-RG-08-0	Safety release handle
5	HJ-SB-19-3	Spring
6	0215038	Steel ball 8
7	J07K300000	Outer scissor
8	0209010	Screw M6X10
9	HJ-RG-09-0	Safety pawl
10	HJ-RG-10-4	Shaft
11	0212004	Seeger D.25
12	J07K400000	Inner scissor
13	HJ-RG-10-2	Shaft
14	HJ-RG-10-1	Shaft
15	0211003	Seeger D.19
16	0206019	Screw M4X6

Item	Part number	Description
17	J07K180002	Anti-derailment plate
18	0213044	Split pin 2X20
19	0205011	Washer D.10
20	HJ-RG-14	Roller
21	0210001	Bush 1020
22	J07K120000	Base extension
23	0202040	Screw M8X16
24	J07Q110000	Beam base
25	0206001	Screw M8X12
26	0205008	Washer D.8
27	6740A-61101A	Pump tray
28	J07K130000	Slider
29	HJ-RG-18	Spring
30	J07K180001	Bolt
31	0202045	Screw M8X20
32	HJ-RG-11-1	Wheel
33	0210008	Bush 2520
34	0210009	Bush 2525
35	HJ-63-0	Jack hydraulic cylinder
36	HJ-RG-10-5	Shaft
37	HJ-RG-19	Cylinder shaft
38	HJ-RG-10-3	Shaft
39	0210066	Bush 2512F
40	6540-14300	Lifting adaptor
41	0301030	Pedal pump 650CC
42	0215021	Greaser 8X1
43	HJ-63-1	Cylinder liner
44	HJ-63-2	Piston
45	HJ-63-3	Cylinder guiding cover
46	HJ-75-4	Cylinder shaft
47	0212005	Seeger D.20
48	0312012	Gasket 63X47X18.4
49	0309022	O-ring 24X2.4
50	0305007	Guide ring 30X10X2.5
51	0311005	Scraper 30X38X5
52	0306087	Silencer 1/8
53	6540-14310	Pad support
54	6540-14305	Outer thread bush
55	6540-14303A	Inner thread bush
56	0212003	Seeger D.24
57	0213066	Elastic pin 4X16
58	0211008	Seeger D.55
59	6540-14321	Round rubber pad
60	6540-14304	Adaptor extension H.180
61	6540-14302	Adaptor extension H.80