



Jema Autolifte A/S

we are here to surprise!

JA2800S

Movable Scissor Lift
Lifting Capacity: 2800 KG

INSTALLATION, OPERATION AND MAINTENANCE MANUAL



Read this entire manual carefully and completely before installation or operation of the lift.

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1. Important safety instructions

1.1 Important notices

Jema Autolifte will offer one-year quality warranty of the lift, during which any quality problem will be properly solved to the user's satisfaction. However, we will not take any responsibility for whatever bad consequence that may result from improper installation and operation, overload running or improper ground conditions.

This model is specially designed for lifting motor vehicles that weighs within maximum lifting capacity. Users are not allowed to use it for any other purposes. Otherwise, Jema Autolifte, as well as our sales agency, will not bear any responsibility for accidents or damages of the lift. Make sure to pay careful attention to the label showing the lifting capacity, attached on the lift, and never try to lift cars weighing more than the specified lifting capacity. Read this manual carefully before operating the lift so as to avoid economic loss or personnel casualty incurred by wrong operation. Without our professional advice, users are not permitted to make any modifications of the control unit or any other mechanical unit.

1.2 Qualified personnel

1.2.1 Only qualified staff, which has been properly trained, can operate the lift.

1.2.2 Electrical connection must be carried out by a certified electrician.

1.2.3 No unauthorized entry is allowed in the lifting area.

1.3 Danger notices

1.3.1 Do not install the lift on an asphalt surface.

1.3.2 Read and understand all safety warnings before operating the lift.

1.3.3 Calibration of the lift must be down after reading calibration instructions.

1.3.4 Do not leave the controls while the lift is still in motion.

1.3.5 Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.

1.3.6 Only properly trained personnel can operate the lift.

1.3.7 Do not wear unfit clothes such as large clothes with flounces, tires, etc, which could be caught by moving parts of the lift.

1.3.8 To prevent accidents, surrounding areas of the lift must be tidy and free from irrelevant matters.

1.3.9 The lift is simply designed to lift the entire body of vehicles, with its maximum weight within the lifting capacity.

1.3.10 Always insure the safety lock is engaged before any attempt to work near or under the vehicle. Never remove safety related components from the lift. Do not use the lift if safety related components are damaged or missing.

1.3.11 Do not rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.

1.3.12 Check at any time the parts of the lift to ensure the agility of moving parts and the performance. Ensure regular maintenance and if anything abnormal occurs, stop using the lift immediately and contact our dealers for help.

1.3.13 Lower the lift to its lowest position and do remember to cut off the power source when service finishes.

1.3.14 Do not modify any parts of the lift without manufacturer's advice.

1.3.15 If the lift is going to be left unused for a long time, users are required to:

- a. Disconnect the power source;
- b. Empty the oil tank;
- c. Lubricate the moving parts with hydraulic oil.

Attention: For environment protection, please dispose the disused oil in a proper way.

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1.4 Warning signs

All safety warning labels are clearly depicted on the lift to ensure that the operator is aware of and avoids the dangers of using the lift in an incorrect manner. The labels must be kept clean and they have to be replaced if detached or damaged. Please read carefully the meaning of each label and memorise them for future operation.

CAUTION		WARNING		
				
Never stand, work or be under the lift while it is being operated.	The operator should not stand too close to the lift but in a safe position away from moving parts.	When the lift is lowered, no auxiliary stand or other blocking objects should be near the lift.	Do not shake or push the vehicle whilst it is on the lift.	Only trained technicians are permitted to operate this lift.
				
Ensure feet and other parts of your body are well clear of the lift when it is being lowered or when lifting.	Never try to lift or lower only 1 platform.	Do not change, tamper or interfere with the safety mechanisms of this lift.	Ensure that the lifting weight of the vehicle is balanced on both platforms to avoid tilting or sliding.	
				
Always keep the lifts pit clean and clear of any objects or contaminants.	Please read and study the operation manual carefully before operating this lift.	Keep the vehicle parallel with the platform lifts at all times.	High voltage in control box, take extreme caution here.	

1.5 Sound Level

The sound emitted from the lift should not exceed 75DB. For the sake of your health, we suggest that you install a noise detector in your working area.

1.6 Training

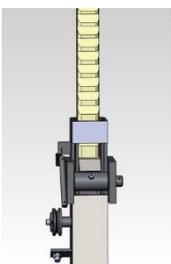
Only qualified staff, which has been properly trained, can operate the lift. We are quite willing to provide professional training for the users when necessary.

2. Overview of the lift

2.1 General descriptions

This movable scissor lift has a quite low profile when at its lowest position. This model is designed with 2 cylinders and manual release system. The spring makes sure the lock goes back to position. When lowering the lift, it has to be lifted up to the position where the lock can be released.

Safety structure:

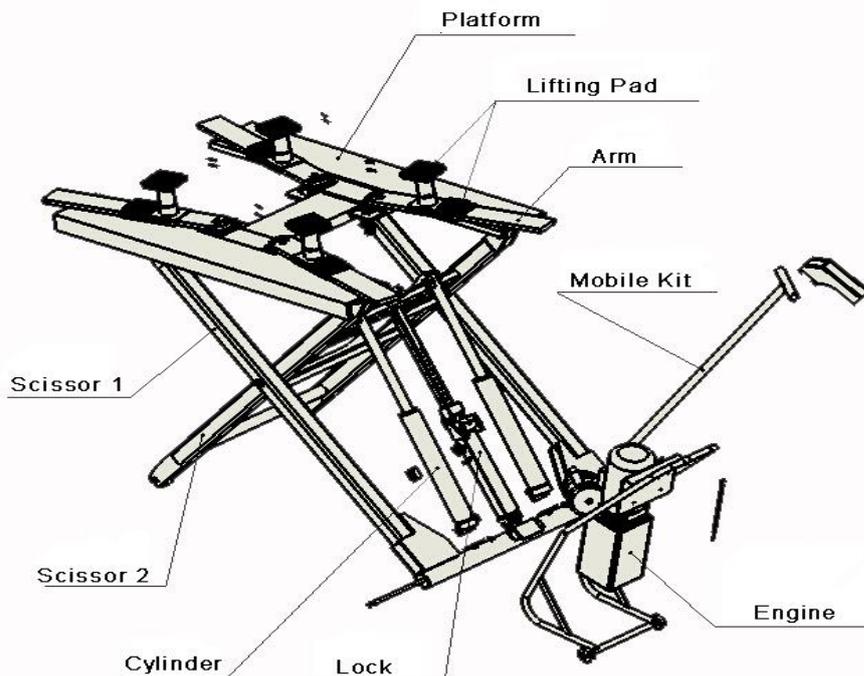


2.2 Technical data

Model	Lifting capacity	Lifting time	Lifting height	Electrical requirement
JA2800S	2800kg	50 Sec	1200mm	220V/240V, Single Phase

Weight of JA2800S = 415 KG.

2.3 Construction of the lift



3. Installation instructions

3.1 Preparations before installation

3.1.1 Tools and equipments needed

- √ Electrical drill
- √ Open wrenches
- √ Screw drivers
- √ Adjustable spanner

3.1.2 List for checking of parts ---Annex 1 (Packing list)

Unfold the package and check if any parts missed as per Annex 1. Do not hesitate to contact us in case any parts are missing, but if you do not contact us and insist on installing the lift lacking of some parts, Jema A/S as well as our dealers will not bear any responsibility for this and will charge for any parts subsequently demanded by the buyer.

3.1.3 Ground conditions

The Autolift must only be used on a hard and flat surface, such as concrete, tiles or similar. Under no circumstances should the autolift be used on a loose or soft surface.

3.2 Precautions for installation

3.2.1 Joints of oil hose must be firmly connected in order to avoid leakage.

3.2.2 All bolts should be firmly checked.

3.2.3 Do not place any vehicle on the lift in the case of trial running.

3.3 Installation

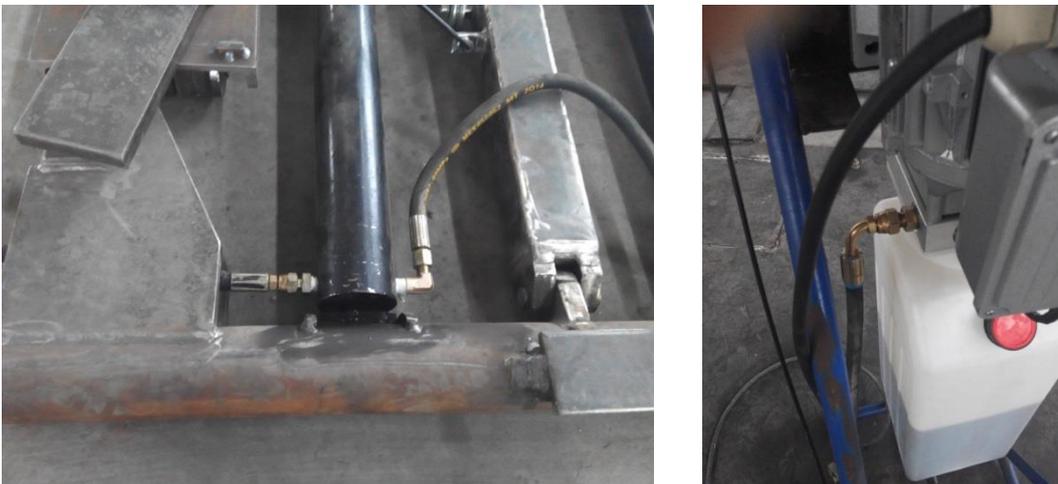
Step1, Connect the handle on the engine kit.



Step2, Mount the engine



Step3, Connect fitting and oilhose from engine to piston.

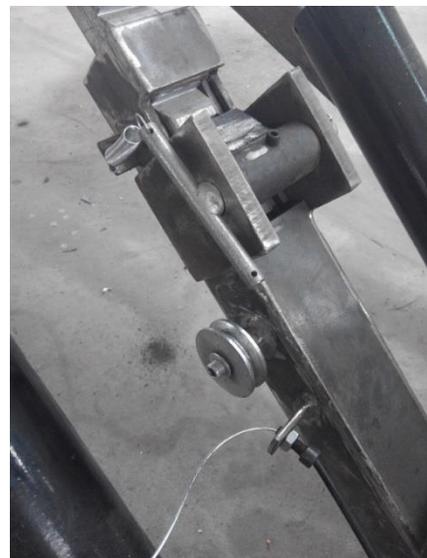


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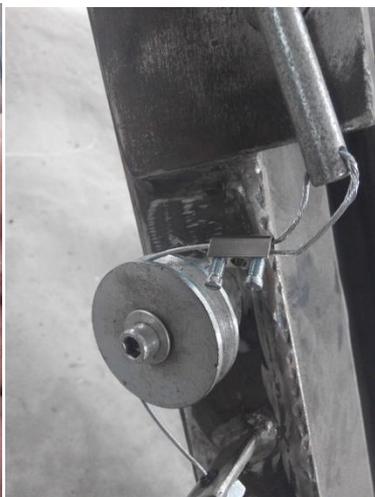
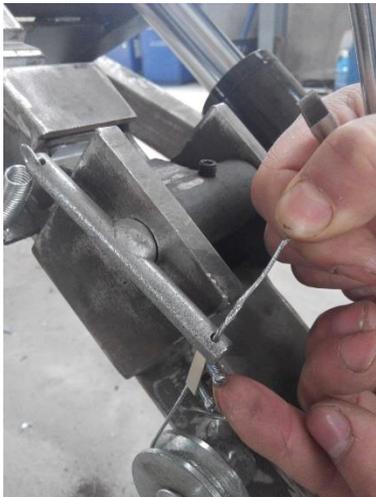
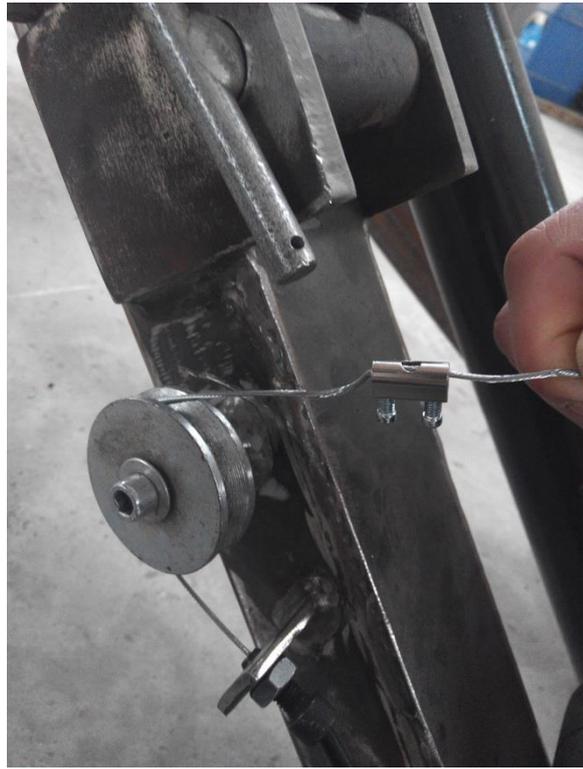
Step4, Connect the power and push UP button until the lift goes to about 500mm.



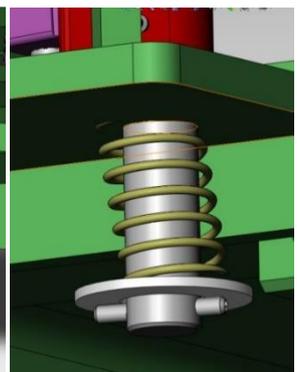
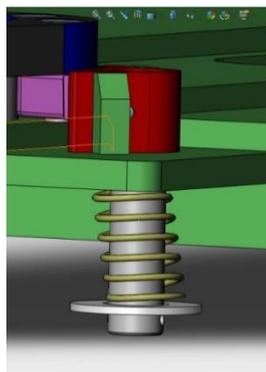
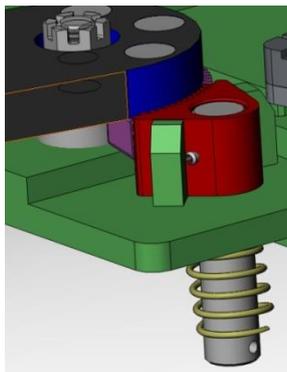
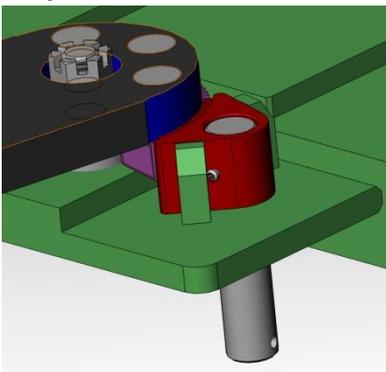
Step 5, Mount the lock releasing wire

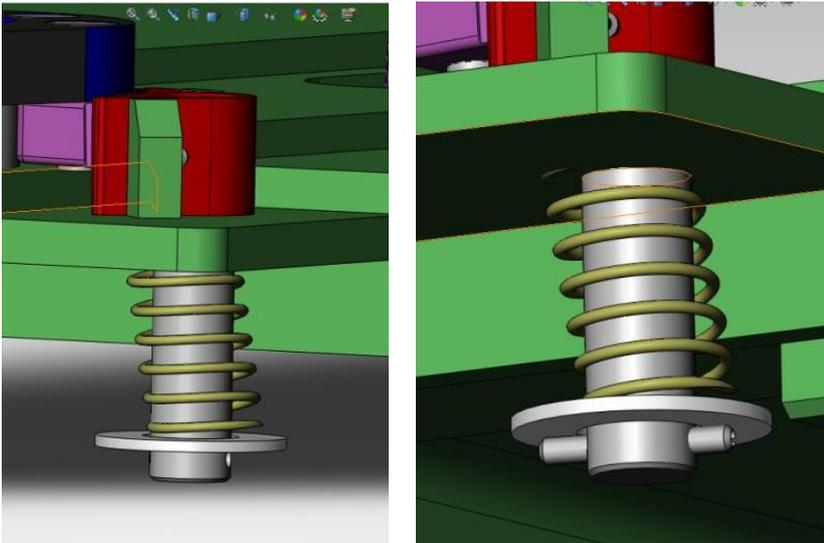


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Step 6, Mount the arms and arm locks.





3.4 Items to be checked after installation.

S/N	Check items	YES	NO
1	Are the lifting arms mounted correct and tighten?		
2	Are the oil hose tightly connected?		
3	Are all electric connections correct?		
4	Are the lowering valve correct adjusted?		

4. Operation instructions

4.1 Precautions

4.1.1 Check all the joints of the oil hose. Only when there is no leakage, the lift can start working.

4.1.2 The lift must not be used if its safety devices malfunction.

4.1.3 The machine must not lift or lower an automobile if its center of gravity is not positioned midway of the rising platforms Jema Autolifte as well as our dealers will not bear any responsibility for any consequence as a result of operating the lift in unbalance conditions.

4.1.4 Operators and other authorized personnel should stand in a safety area during lifting and lowering process.

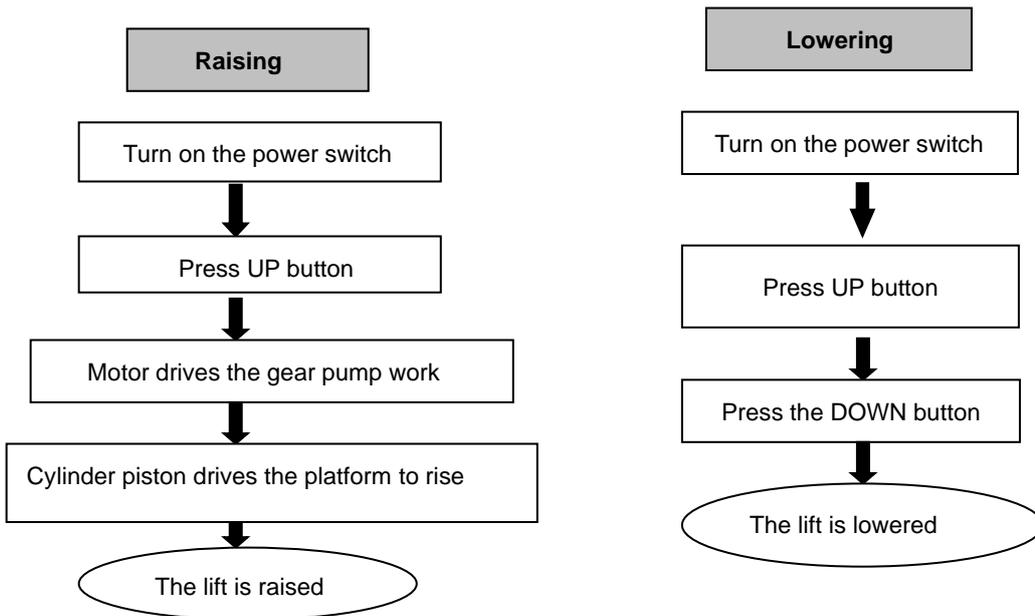
4.1.5 When the lift are being raised to the desired height, switch off the power at once to prevent any wrong operation performed by unauthorized people.

4.1.6. Make sure that the safety lock of the lift is engaged before starting work under the vehicle and that nobody stays under the vehicle during the lifting and lowering process.

4.2 Descriptions of control box



4.3 Operation flow chart



4.4 Operation instructions

To raise the lift

1. Make sure that you have read and understood the operation manual before operation.
2. Drive and park the vehicle midway on the lift.
3. Place the four rubber pads under the prop-points of the vehicle and ensure that the car's gravity have fallen on the rubber pads.
4. Connect the lift to the power supply
5. Press the UP button on the control box until rubber pads have touched the prop-points of vehicle.
6. Keep on pressing the UP button to lift the vehicle a bit higher from the ground and check if the vehicle is in a safe position.
7. Disconnect the power supply

To lower the lift

1. Connect the lift to the power supply.
2. Press the "UP" Button to make sure the safety lock is released
3. Press the DOWN button to lower the lift.
4. When the lift is in the lowest position, disconnect the power

5. Trouble Shooting

ATTENTION: If the trouble could not be fixed by yourself, please do not hesitate to contact Jema Autolifte for help. Jema Autolifte will offer our service at the earliest possible time. Your troubles will be judged and solved much faster if you could provide us more details or pictures of the trouble.

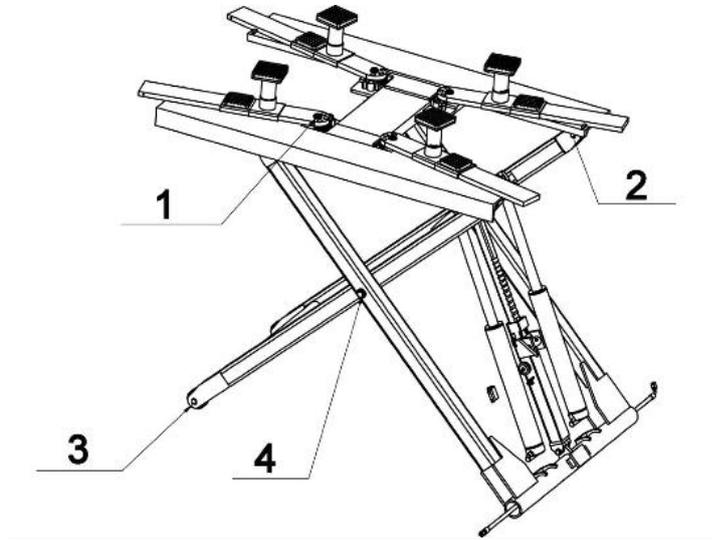
TROUBLES	CAUSE	SOLUTION
Motor does not run and will not raise	The engines power supply is not connected or connected correctly.	Check the power supply and change broken parts if needed.
	The motor is burnt	Replace it.
	The condensator is burnt.	Change the broken condensator.
Motor runs but will not raise	The lowering valve is open.	Check if the lowering valve is broken.
	Overflow valve is loose or jammed.	Clean or adjust it.
	The gear pump is damaged.	Replace it.
	Oil level is too low.	Add oil.
	The oil hose is jammed.	Clean or replace the oil hose.
	The oil hose is broken.	Replace it.
Platforms go down slowly after being raised	The oil hose leaks.	Check or replace it.
	The oil piston is not in the right position.	Adjust or replace the piston.
	It is too cold in the garage. (min. 5°).	The lift can only be used at 5° to 40°.
	Lowering speed valve is not correct adjusted	Clean or adjust.
	The lowering valve is broken.	Replace it.
Raising too slow	The oil filter is jammed.	Clean or replace it.
	Oil level is too low.	Add oil.
	The pump pressure is not adjusted right	Adjust it.
	The hydraulic oil hose is too hot (above 40°).	The lift can max. be used up to 40°.
	The seal of the cylinder is abraded.	Replace the piston or seal.
Lowering too slow	The lowering valve is jammed.	Clean or replace.
	The hydraulic oil is dirty.	Change the oil.
	The lift is not checked and maintained	Get the lift checked asap.
	The oil hose is jammed.	Clean or replace it.

6. Maintenance

Easy and low cost routine maintenance can ensure the lift works normally and safely. The following are requirements for routine maintenance. You may choose the frequency of routine maintenance by consulting your lift's working conditions and time.

The following parts need to be lubricated.

S/N	DESC
1	Arm Lock shaft
2	Joint shaft A
3	Joint shaft B
4	Joint shaft C



6.1. Daily checking of items before operation

The user must perform daily checks. Daily checks of the safety system are very important – the discovery of device failure before action could save your time and prevent you from great loss, injury or casualty.

- Check whether oil hose well connected. No leakage is allowed.
- Check the electric connections. Make sure that all connections are in good condition.
- Check whether the expansion bolts are well anchored.
- Check if safety teeth and safety block is matching well or not.

6.2. Weekly checking of items

- Check the flexibility of moving parts.
- Check the working conditions of safety parts.
- Check the amount of oil left in the oil tank. Oil is sufficient if the carriage can be raised to highest position. Otherwise, oil is insufficient.
- Check whether the expansion bolts are well anchored.

6.3. Monthly checking of items

- Check whether the expansion bolts are well anchored.
- Check the tightness of the hydraulic system and screw the joints firmly if it leaks.
- Check the lubrication and abrasion circumstances of moving parts.

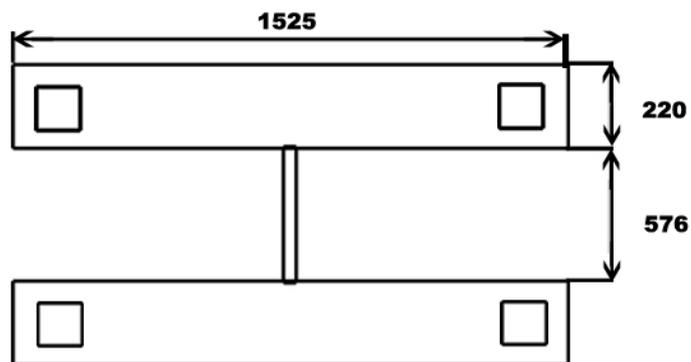
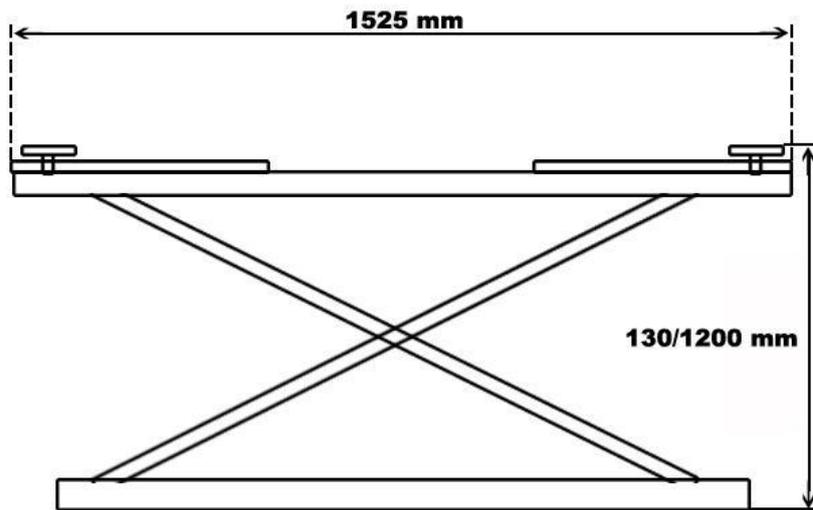
6.4. Yearly checking of items

- Empty the oil tank and check the quality of the hydraulic oil.
- Wash and clean the oil filter.

If users follow the above maintenance requirements strictly, the lift will be kept in a good working condition and accidents could be avoided to a large extent.

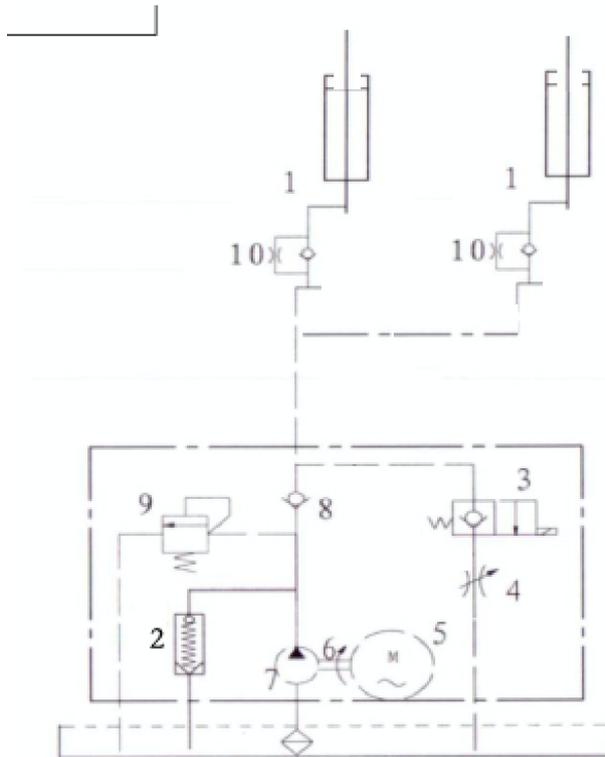
7. ANNEX

Annex1, Overall diagram



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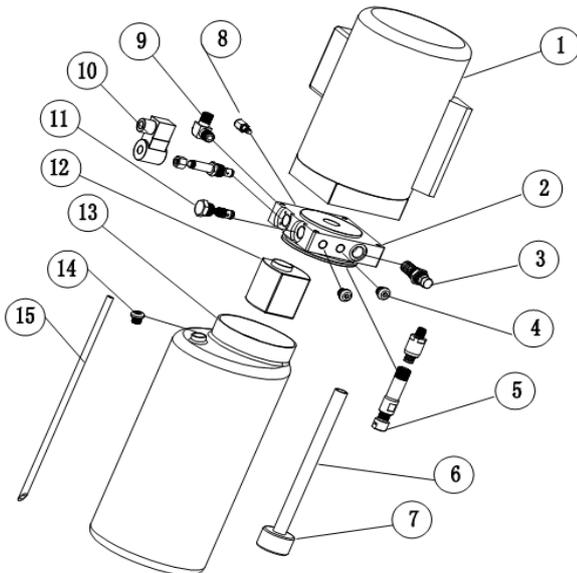
Annex 2 Hydraulic working system



- 1、 main cylinder
- 2、 cushion valve
- 3、 electrical unloading valve
- 4、 throttle valve
- 5、 motor
- 6、 coupling
- 7、 gear pump
- 8、 single-way valve
- 9、 overflow valve
- 10、 one-way throttle valve

Annex3, Separate diagrams for the lift

For the pump:



S/N	DESCRIPTION	QTY
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Fitting	2
5	Cushion valve	1
6	Absorbing oil hose	1
7	Oil filter	1
8	Throttle valve	1
9	Oil hose tie-in	1
10	Electrical unloading valve	1
11	One-way valve	1
12	Gear pump	1
13	Oil tank	1
14	Oil tank cover	1
15	Oil back hose	1

Annex4, EC Declaration

	Declaration of Conformity (Manufacturer's Declaration)	
<p>We: Jema Autolifte CO., LTD <i>Lixianzhuang Industrial Zone, Shangma, Chengyang, Qingdao, Shandong, 266000, P.R.China</i></p>		
<p>declare in sole responsibility that the equipment</p>		
<p>Vehicle Lift</p>		
<p><i>JA2800S.</i></p>		
<p>to which this declaration applies, complies with these normative documents:</p>		
<p><i>2006/42/EC 2006/95/EC 2004/108/EC EN 1493:2010 EN 60204-1: 2006+A1+AC</i></p>		
<p>This declaration is based on: Third party testing, performed by the Notified Body Celab, Italy</p>		
Celab registration no.:	802553484322	
Celab report Nr. :	ESC-JEMA-2019-10-11A	
<p>Notes: This declaration becomes invalid, if technical or operational modifications are introduced without the manufacturers consent.</p>		
<p>Name and address of the person (established in the Community) compiled the technical file: <u>Kasper Petersen, Industrihegnet 2, 4030 Tune, Denmark</u></p>		
<p>Responsible for making this declaration is the:</p>		
Manufacturer <input checked="" type="checkbox"/>	Authorized representative established within the EU <input type="checkbox"/>	
<p>Person responsible for making this declaration</p>		
Name ,Surname	: <u>Sarah Ren</u>	
Position/ Title	: <u>Business Manager</u>	
<u>Qingdao</u>	<u>11.Oct.2019</u>	
(place)	(date)	(company stamp and legal signature)

