



Jema Autolifte A/S

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JA6000S



Full Rise Scissor Lift - Surface Mounted - Lifting Capacity: 3000 KG

Original

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 A/S will offer one-year's 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 with a max. capacity 3000 kg. Users are not allowed to use the lift for any other purposes. Otherwise, we, as well as our distributor, will not bear any responsibility for accidents or damages of the lift. Make sure to pay careful attention to the safety label showing the lifting capacity, and never try to lift cars with a weight more than the specified lifting capacity.

Read this manual carefully before operating the lift, 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 done after reading calibration instructions.

1.3.4 Do not leave the controls while the lift is still moving.

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, ties, 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 are 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 of synchronization. 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.

1.4 Warning signs

All safety warning symbols appearing on the lift with the aim of drawing the operator's attention to dangerous or unsafe situations. The labels must be kept clean and must be replaced if they loosened or damaged. Read the meaning of the labels carefully and learn them by heart



- Attention 1 It is not allowed to stay under the vehicle, while operating the lift.
- Attention 2 Please read and understand the instruction manual before using the lift.
- Attention 3 When the lift is lowered, it is not permitted to use any help post or wooden stick.
- Attention 4 Do not shake the vehicle when it is on the lift.
- Attention 5 It is not allowed to lift the vehicle on only one platform.
- Attention 6 Only trained personnel should operate the lift.
- Attention 7 Make sure the vehicle is parallel to both lifting platforms.
- Attention 8 Power in the control box.

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

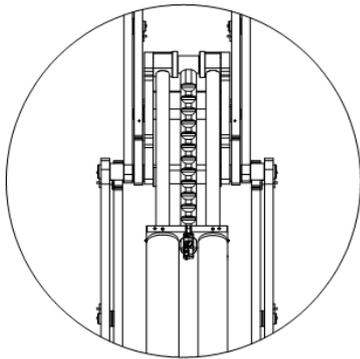
Only qualified staff, which has been properly trained, can operate the lift. We are quite willing to provide professional training for the users when necessary.

2. Overview of the lift

2.1 General descriptions

This full rise scissor lift is a low profile lift. Its four cylinder structure makes the low 110mm clearance from ground come true. This model is designed with auto leveling system. Because it is specially designed for surface mounting, users could have it installed with great convenience. Its platform extension design may not only be used as a ramp, but can also serve as an extended part of the platform for much longer vehicles. Besides this, designs like 24V working voltage of control box and limit switch, alarming buzzer, pneumatic safety lock, anti-surge valves, etc. emphasizes your personal security greatly.

Safety structure:

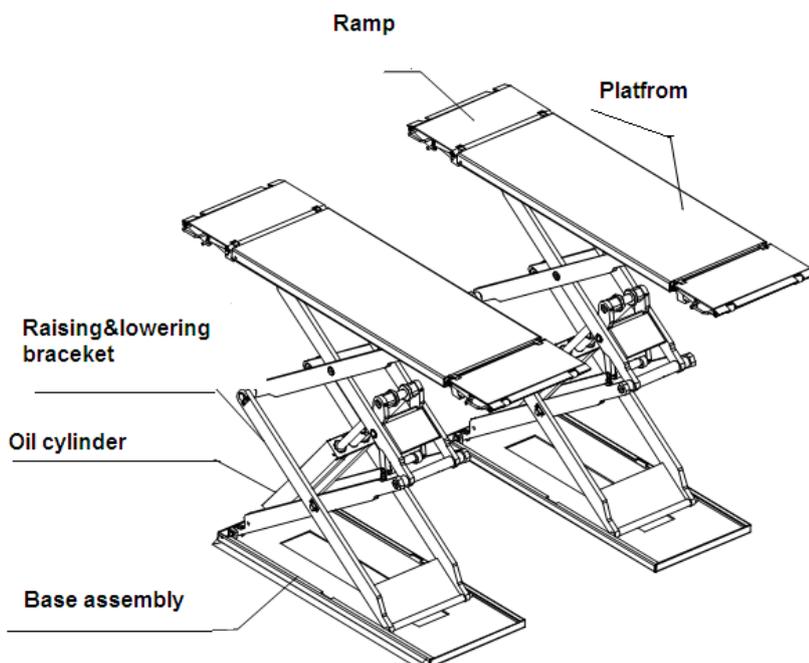


2.2 Technical data

Model	Lifting capacity	Lifting time	Lifting height	Electrical requirement
JA6000S	3000kg	50 Sec	1850mm	220V/240V, Single Phrase

Weight of JA6000S = 900 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 Autolifte as well as our distributors will not bear any responsibility for this and will charge for any parts subsequently demanded by the buyer.

3.1.3 Ground conditions

The lift should be fixed on a smooth and solid concrete ground with strength of more than 3000psi, tolerance of flatness less than 5mm and minimum thickness of 150mm. In addition, newly built concrete ground must undergo more than 28days' cure and reinforcement.

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 tightened. Because of transport screws can be loosened and therefore needs to be checked.
- 3.2.3 Do not place any vehicle on the lift in the case of trial running.

3.3 Installation

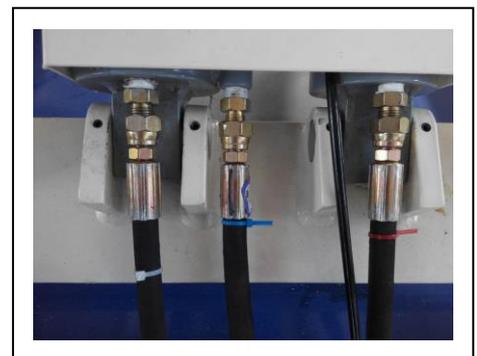
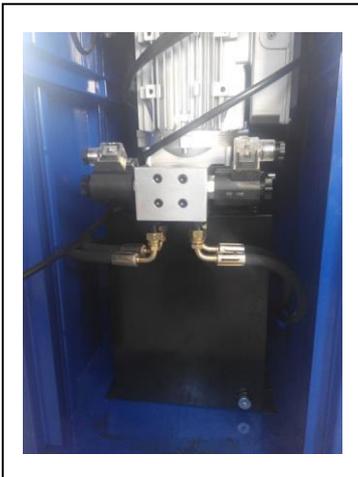
Step1, Connect oil hose (This step is extremely important, so do refer to the diagram for of oil hose connection in **Annex 4** and understand the following instructions before proceeding)

First make sure that the hose is not blocked or dirty.

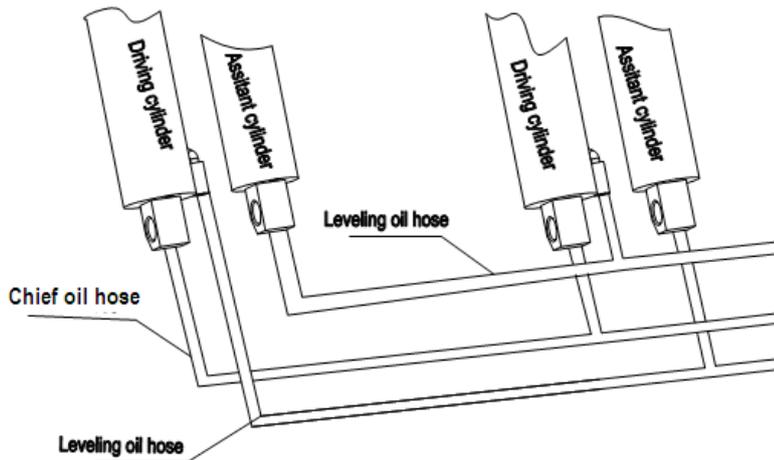
Secondly installers have to indentify where the chief oil hose is to be connected, by referring to the below two pictures, and then connect the chief hose.

There are four main oilhoses in total, marked with four ribbons of different colours. Oil hoses with same colour should be connected to each other. Please follow the pictures below:

Finally, check if all connections are tightened.



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Step2, Connect the wiring and air system

Connect exterior wires as per the wiring diagram, with the black for phase wire, the blue for null wire, and the green-yellow for grounded conductor. Connect the compressed air supply to the air inlet of the pump and then connect the air hose ($\Phi 10 \times \Phi 7$ mm, prepared by the user) of the pneumatic safety lock to the air outlet of the pump.

Attention: Pressure of the air supply should be approx. $0.6-0.8 \text{kg/cm}^2$



Step3, Fill with 15L hydraulic oil

Pour 15 liters of anti-grinding oil into the oil tank. The level of the oil must be 10mm to 40mm measured from the top of the tank.(users can measure it by the probe attached on the lid)

Step4, Leveling

Attention: Before leveling, make sure that the oil hoses are correctly connected. Otherwise, oil cylinders may not work synchronously or could be damaged.

Electric leveling

1. Turn on the power switch.
2. Press the UP button and see if the two valves with black and white ribbon are working. Push UP until one of the platform goes to around 1.5 meter high.
3. Press DOWN button until the two platforms are all the way down to bottom.
4. Press and hold button of "Platform Calibration", press UP button and release immediately.
5. Repeat step 4 several times until one of the platform is just about to move. (**Attention: Please do it carefully and stop pressing UP button immediately when you see one of the platform is moving, otherwise it will damage the lift**)
6. Hold "platform calibration", press DOWN button and release it immediately when you will see a small moving down of the lift. Then release all buttons.

Use the lift as normal and see if the two platforms are calibrated. Otherwise please do step 5 and 6 again until it's calibrated.

Attention: The button for "platform calibration" is only used for leveling, and not for daily use.

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Step 5, Mount the expansion bolt

1. Drill holes for expansion bolt (The bolts are not incl. with the lift). Make sure the drill is going straight down to the ground.
2. Hammer expansion bolt into the hole and tighten the nut afterwards.

Step 6, Mount the oil hose covers.

1. Make sure the hydraulic hoses located right on the floor and not calms top of each other, since it will not be possible to mount the oil hose covers if hydraulic hoses are not located properly.
2. When the oil hose covers are placed correctly, attach them with bolts in the floor so the covers are fixed on the floor and protects the hydraulic oil hoses going from the lift to the control box.

3.4 Items to be checked after installation.

S/N	Check items	YES	NO
1	Are the two platforms adjusted at the same level?		
2	Are the oil hose tightly connected?		
3	Are all electric connections correct?		
4	Are the valves of the pump unit tight?		

4. Operation instructions

4.1 Precautions

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

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

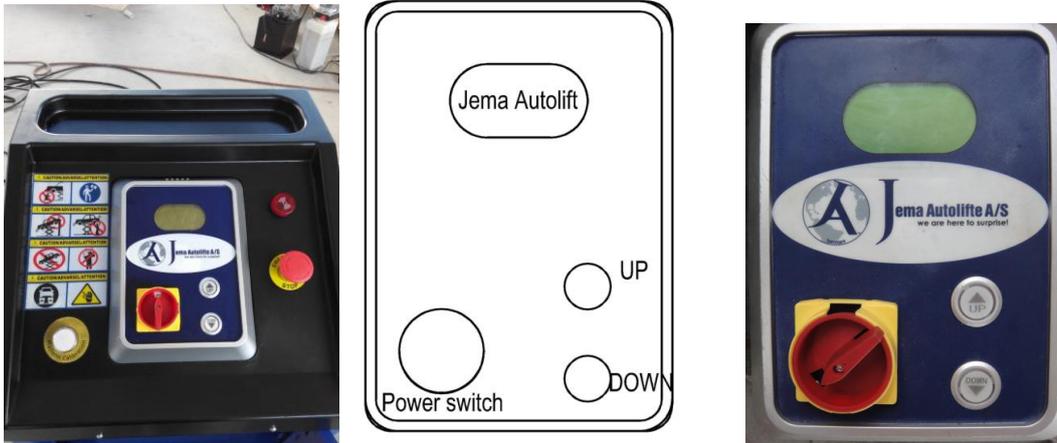
4.1.3 The lift must not rise or lower an automobile if its center of gravity is not positioned midway of the rising platforms Jema Autolifte as well as our distributors will not bear any responsibility for any consequence as a result of operating the lift in unbalance conditions.

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

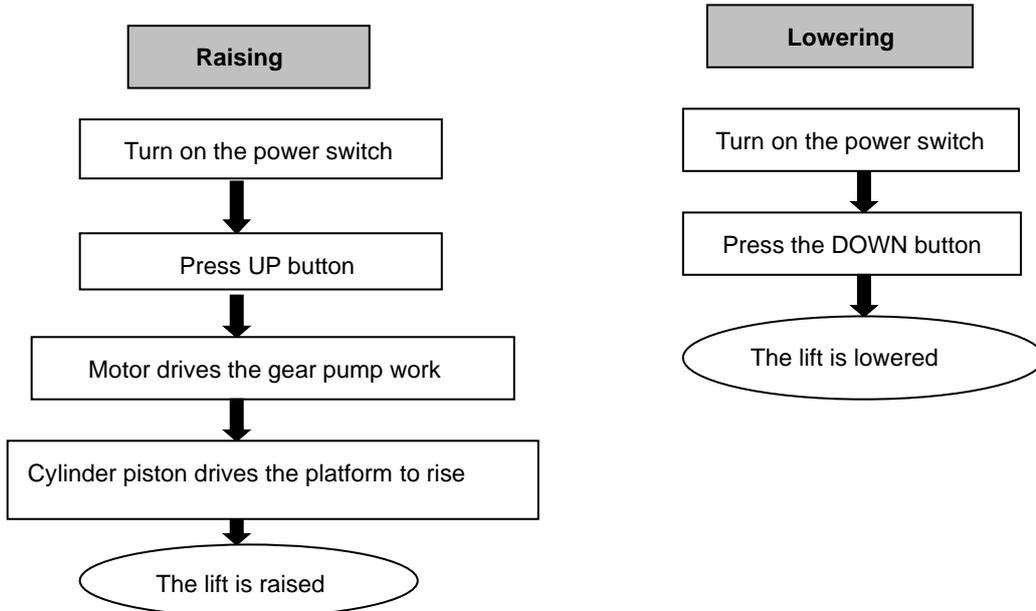
4.1.5 When platforms are being raised to the desired height, switch off the power at once to prevent any wrong operation performed by unauthorized people.

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 two platforms.
3. Place the four rubber pads under the fix-points of the vehicle and ensure that the car's gravity have fallen on the rubber pads.
4. Press the UP button on the control box until rubber pads touch the fix-points of vehicle.
5. Press the UP button to lift the vehicle a bit higher from the ground and check again if the vehicle is in a safe position.
6. Having raised the vehicle to the required height, operators must press the "Emergency stop" button until the power indicator is off and check the stability of the vehicle again before performing maintenance or repair work.

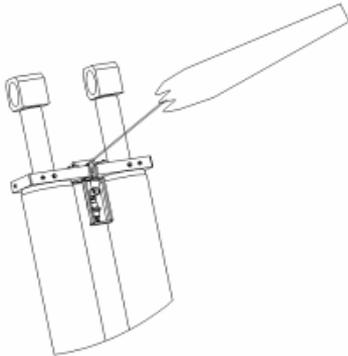
To lower the lift

1. Switch on.
2. Press the DOWN I button to lower the lift. It will stop lowering approx. 200mm from the ground.
3. Press DOWN II button to continue lowering the platforms. Alarming buzz will be heard during this process.
4. Drive the vehicle away

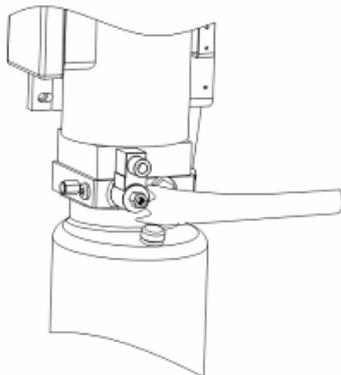
4.5 Emergency lowering in case of power failure

Pneumatic lock is not engaged

1. Pull up the safety teeth with the steel rope to release the safety lock.

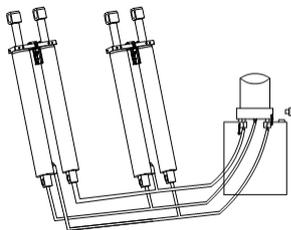


2. Loosen the core of the solenoid unloading valve fixed on the hydraulic block.

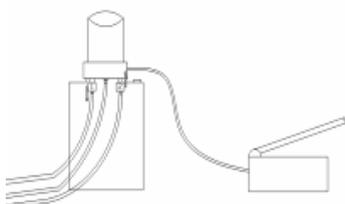


Pneumatic safety lock is engaged.

1. Remove the removable plug from the hydraulic block.

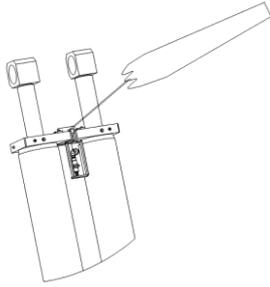


2. Connect the optional hand pump to the hydraulic block at the point where the removable plug used to be fitted.

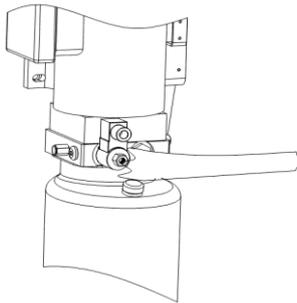


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3. Press the handle of the optional hand pump to raise the platform to make the safety teeth unlock. Then, pull up the safety teeth with the steel rope to release the safety lock.



4. Loosen the core of the solenoid unloading valve fixed on the hydraulic block



5. Trouble Shooting

ATTENTION: If the trouble could not be fixed by yourself, please do not hesitate to contact us for help .We will offer our service at the earliest possible time. By the way, 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 wire connection is loose.	Check and make sure, that the connection is tight.
	The motor is burnt	Replace it.
	The limit switch is damaged or the wire connection is loose.	Connect it or adjust or replace the limit switch.
Motor runs but will not raise	The motor run reversely.	Check the wire connection.
	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 became loose or dropped off.	Tighten it.
	The cushion valve became loose or jammed.	Clean or adjusts it.
Platforms go down slowly after being raised	The oil hose leaks.	Check or replace it.
	The oil cylinder is not tightened.	Replace the seal.
	The single valve leaks.	Clean or replace it.
	The overflow valve leaks.	Clean or replace it.
	Electrical unloading valve leaks.	Clean or replace it.

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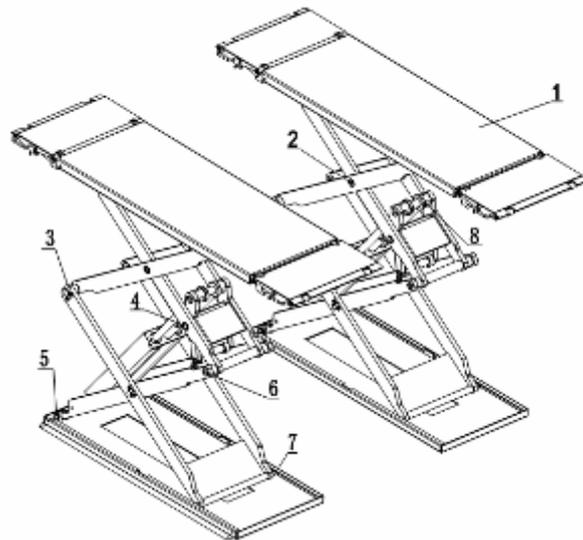
Raising too slow	The oil filter is jammed.	Clean or replace it.
	Oil level is too low.	Add oil.
	The overflow valve is not adjusted to the right	Adjust it.
	The hydraulic oil is too hot (above 45°).	Change the oil.
	The seal of the cylinder is abraded.	Replace the seal.
Lowering too slow	The throttle valve jammed.	Clean or replace.
	The hydraulic oil is dirty.	Change the oil.
	The anti-surge valve is jammed.	Clean it.
	The oil hose is jammed.	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	Platform slider
2	Joint shaft C
3	Joint shaft B
4	Driving rotor shaft
5	Rotor shaft of base plate
6	Joint shaft D
7	Base plate slider
8	Rotor shaft



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 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 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.

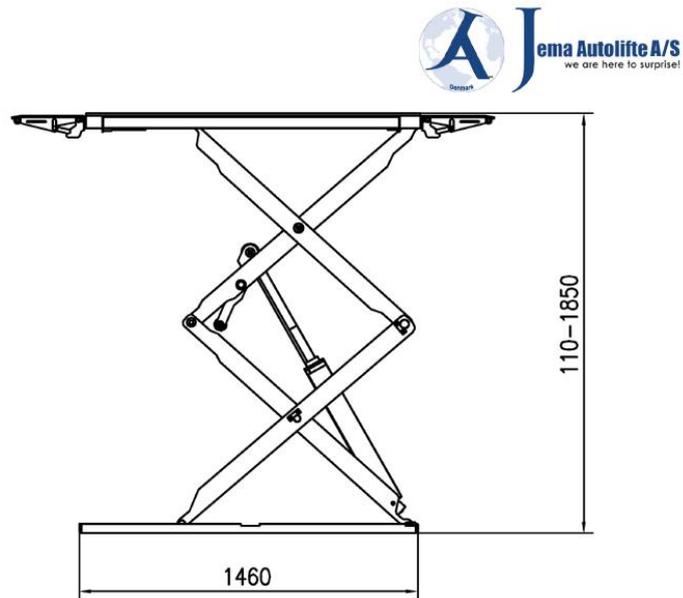
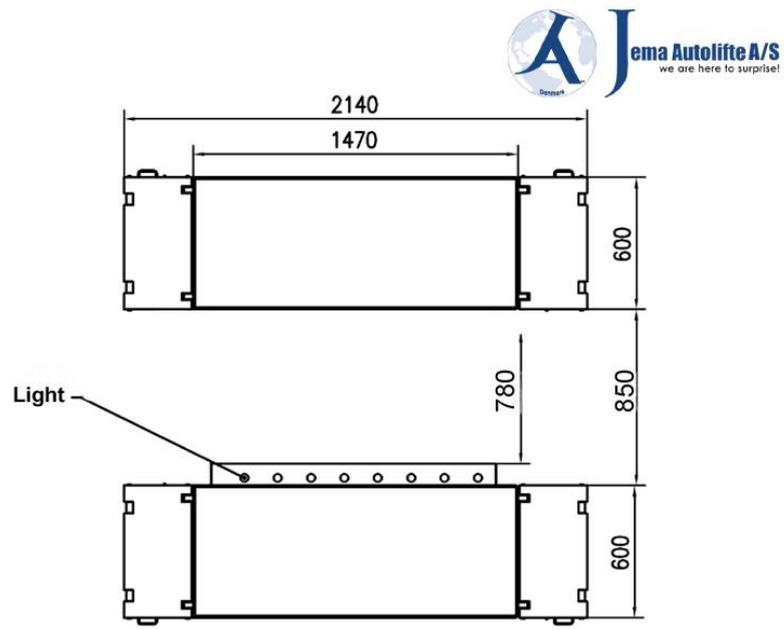
If users follow the above maintenance requirements strictly, the lift will be kept in a good working condition and accidents could be avoided to a large extent.

7. ANNEX

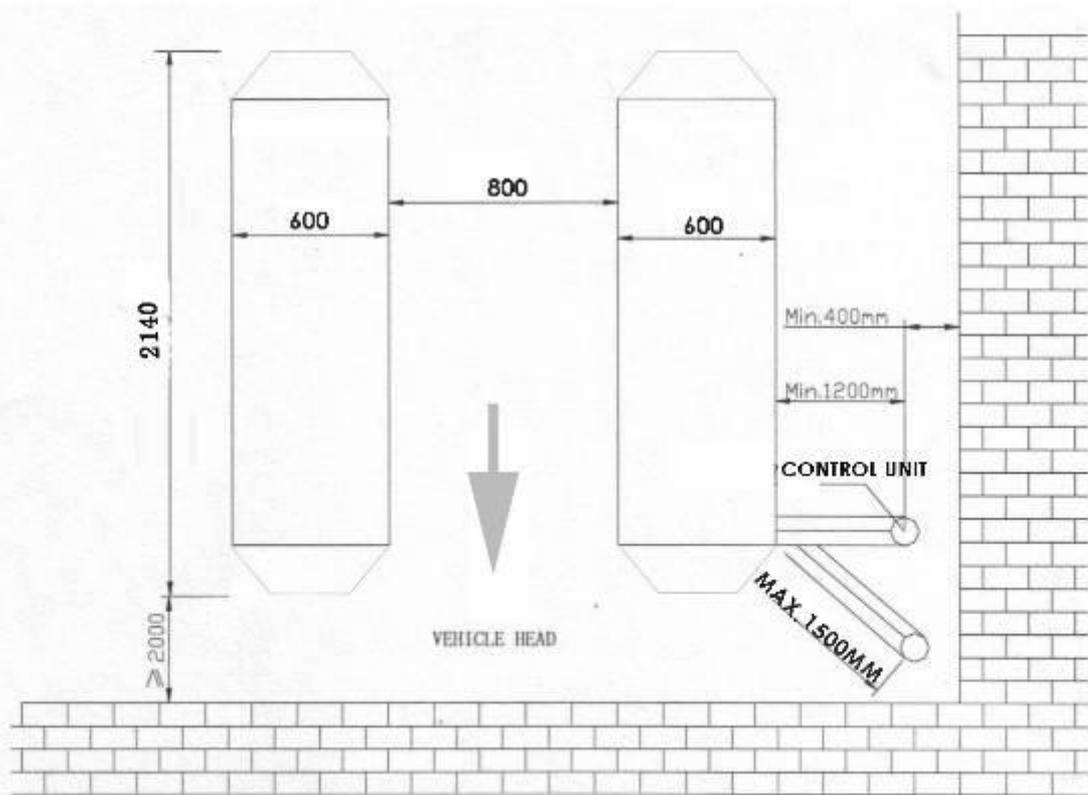
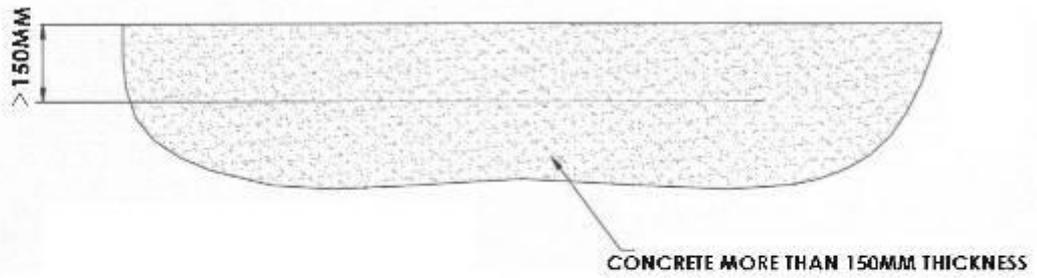
Annex 1, Packing List of the whole lift

S/N	Name	Drawing#/Size	Description	Qty
1	Lift	6000-01	Component	1
2	Protection cover assembly	6000-A06-B02	Component	1
3	Cover plate A	6000-A9	Q235A	1
4	Cover plate B	6000A10	Q235A	1
5	Cover plate C	6000-A11	Q235A	1
6	Control box	6000-A12	Assembly	1

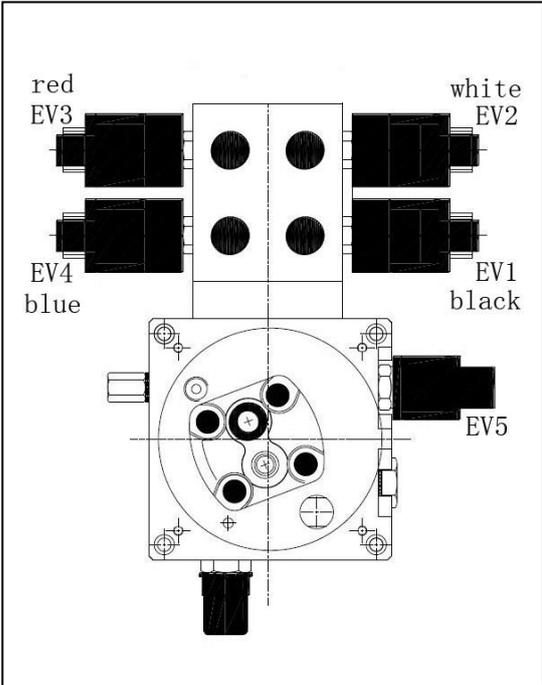
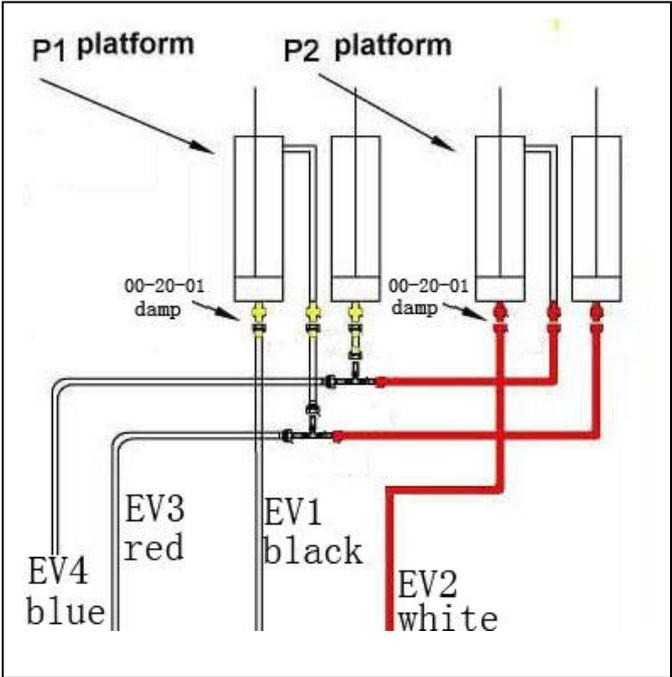
Annex2, Overall diagram



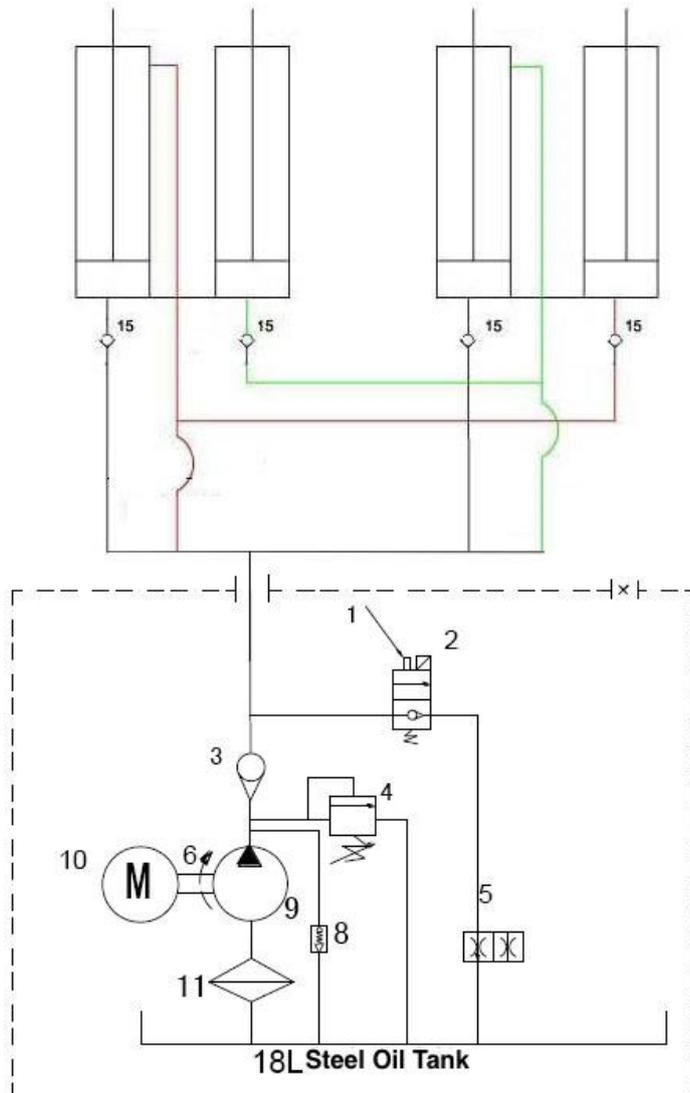
Annex3, Diagram for ground fixing



Annex 4, Diagram for oil hose connection

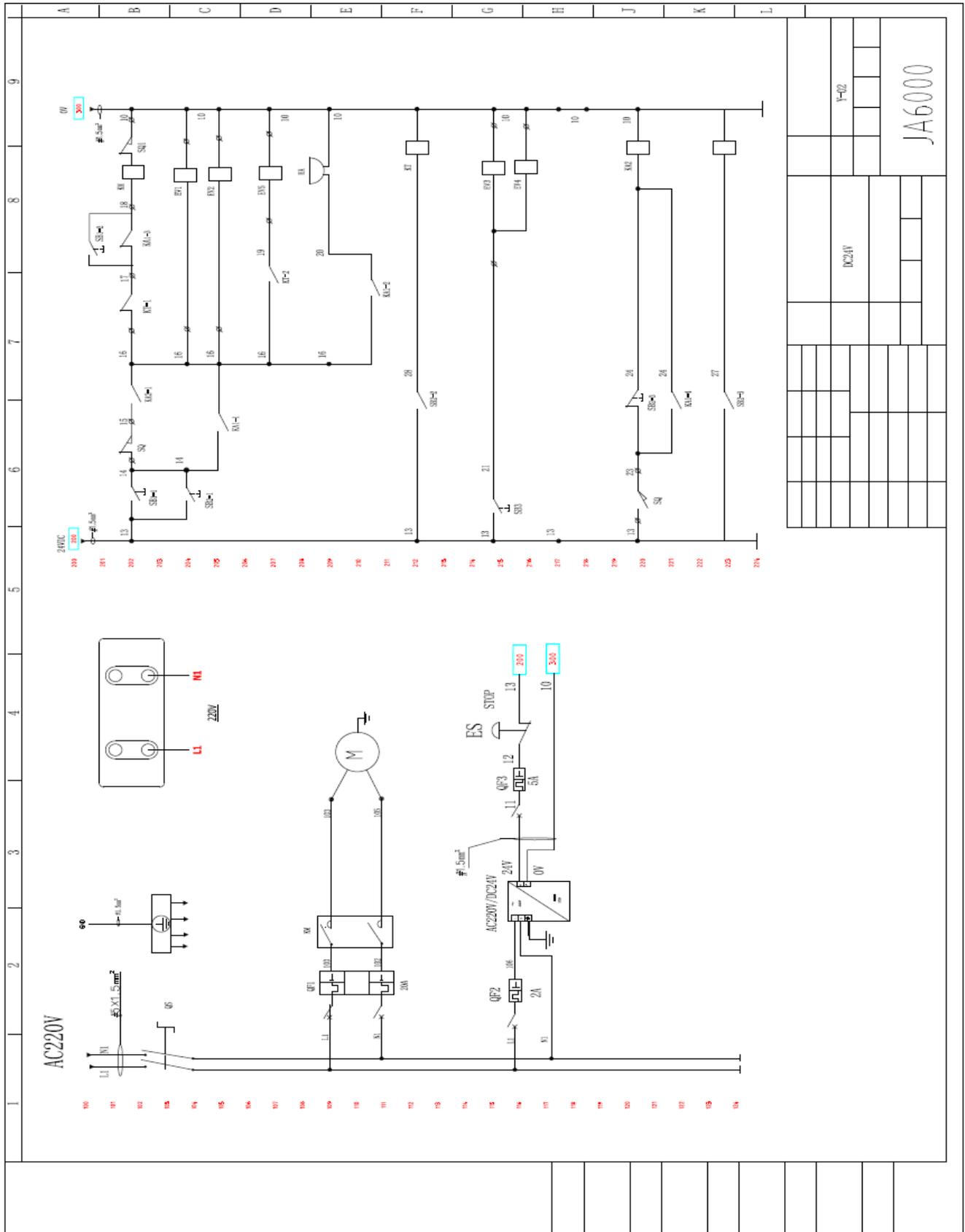


Annex 5, Hydraulic working system

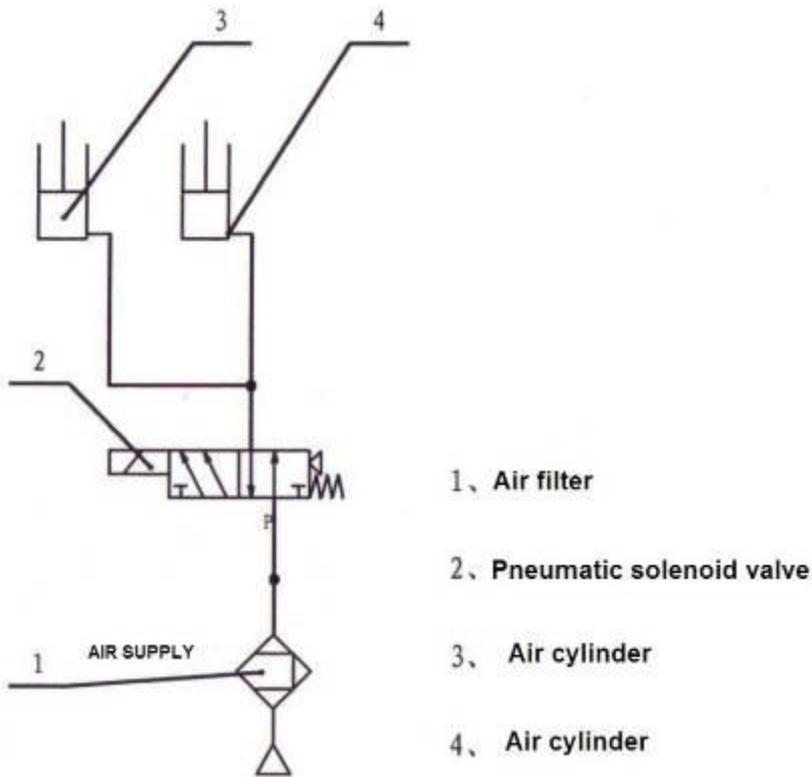


- 1 .Emergency unloading valve
- 2. Electrical unloading valve
- 3. One-way valve
- 4. Overflow valve
- 5. Lowering throttle valve
- 6. Electrical unloading valve
- 7. Electrical unloading valve
- 8. Cushion valve
- 9. Gear pump
- 10. Oil pump motor
- 11. Oil filter
- 12. Driving cylinder
- 13. Assistant cylinder
- 14. Coupling
- 15. Anti-surge valve

Annex6, Electric wire diagram

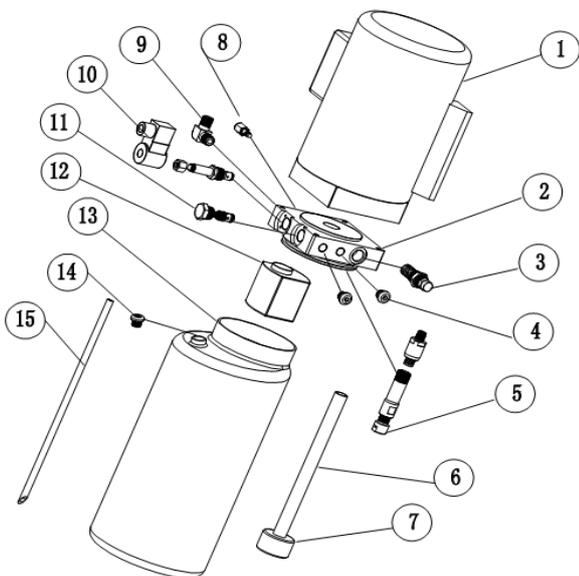


Annex7, Diagram for air supply connection



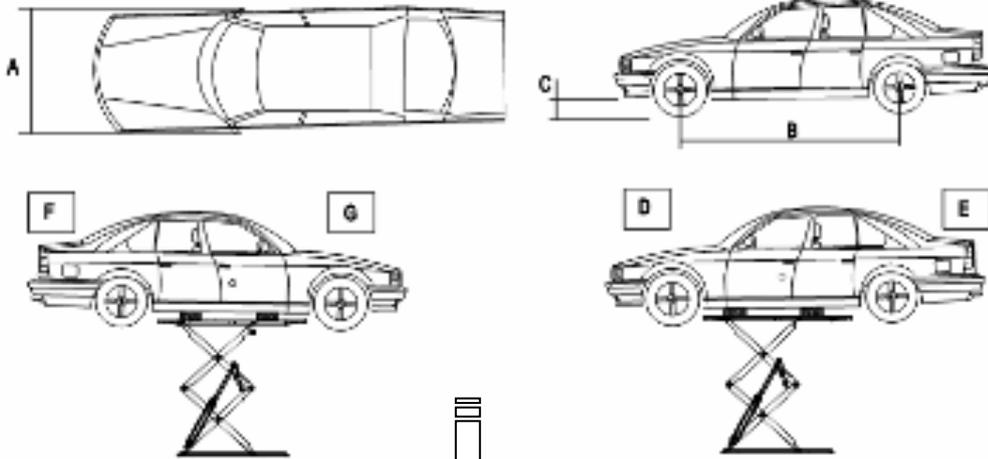
Annex 8, Separate diagrams for the lift

For the pump:



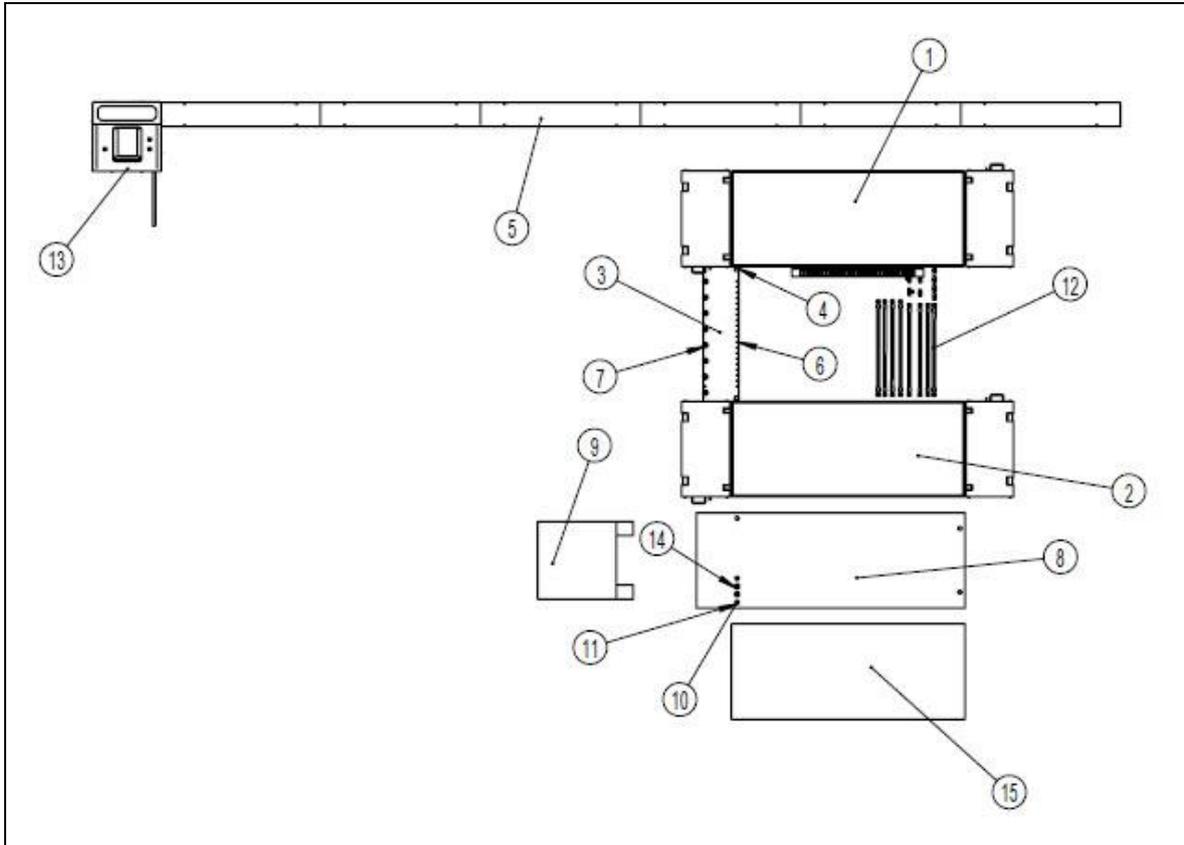
S/N	DESCRIPTION	QTY
1	Motor	1
2	Hydraulic block	1
3	Overflow valve	1
4	Fitting	2
5	Cushion valve	1
6	Absorbing oil hose	1
7	Oil filter	1
8	Throttle valve	1
9	Oil hose tie-in	1
10	Electrical unloading valve	1
11	One-way valve	1
12	Gear pump	1
13	Oil tank	1
14	Oil tank cover	1
15	Oil back hose	1

Annex9, Size and weight requirements on vehicles



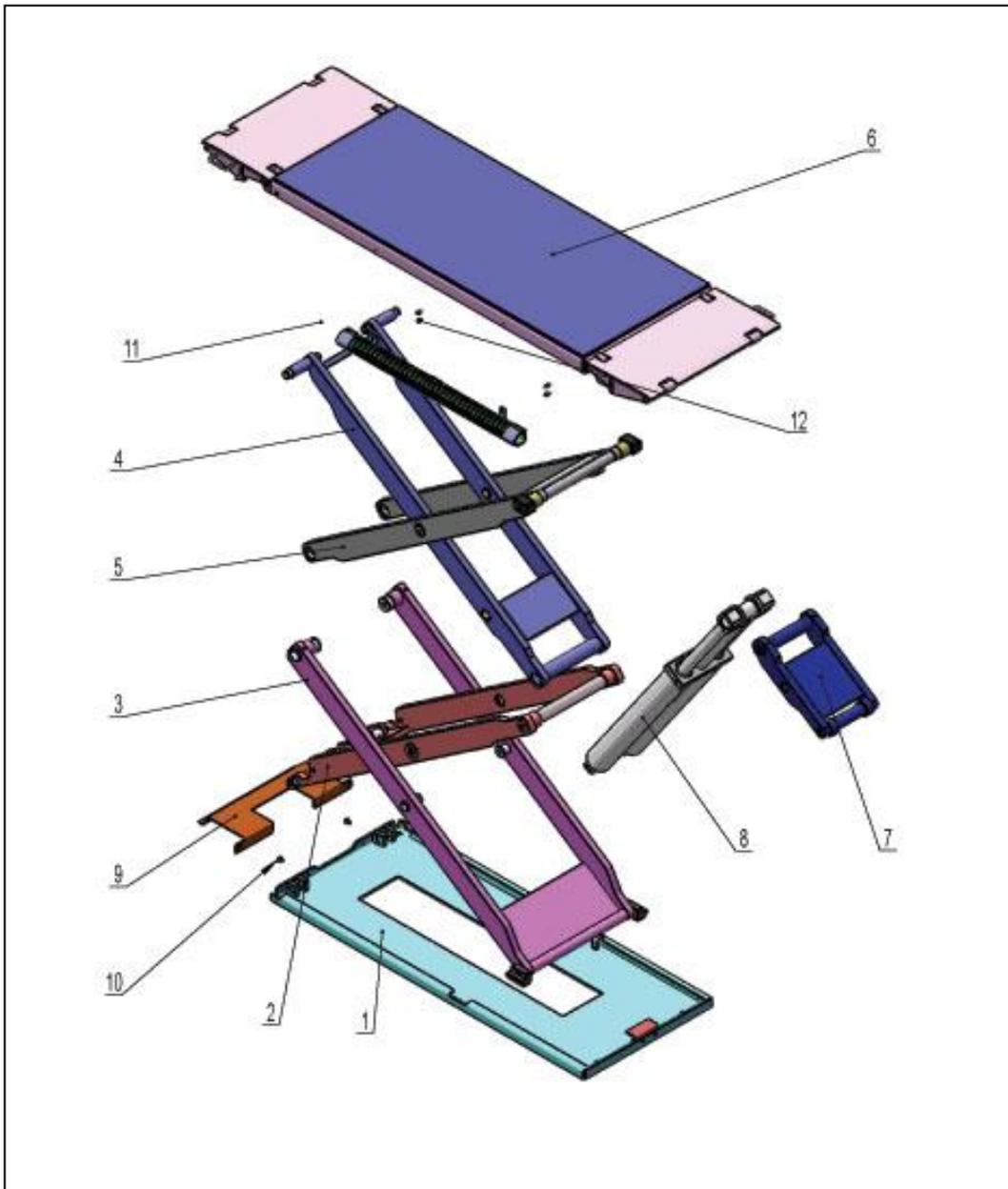
Model No.	A (mm)	B (mm)	C (mm)	D (T)	E (T)	F (T)	G (T)
JA6000S	1900	2000	110	1.8	1.2	1.2	1.8

Annex 10, Spare parts list.



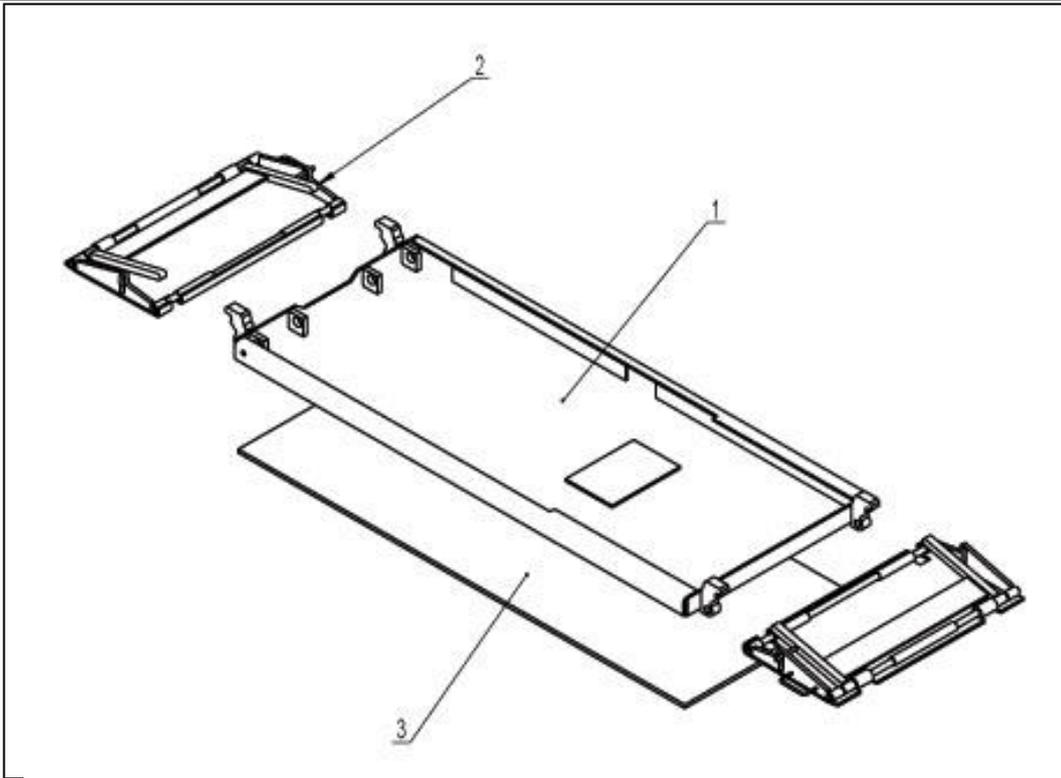
Picture number	Spare part no.	Description	Quantity
1	JA6000-00-A	Master platform	1
2	JA6000-00-B	Platform	1
3	00-16	Protection cover	1
4	BHF-GA-M08.0-S-016	Shaft	4
5	00-11-02-03	Protection cover	6
6	MJL-XHY-6-30	Protection cover	-
7	BEX-CH-M16.0-150	Screw	4
8	00-19	Base plate	2
9	JA3000-D-06	Protection cover	2
10	BHF-GA-M16.0-S-040	Shaft	4
11	NH-GA-M16.0-S	Slide	4
12	00-20	Hydraulic oil hose	8
13	JA6000-D-00	Control unit	1
14	WS-S-GA-M16.0	Washer	4

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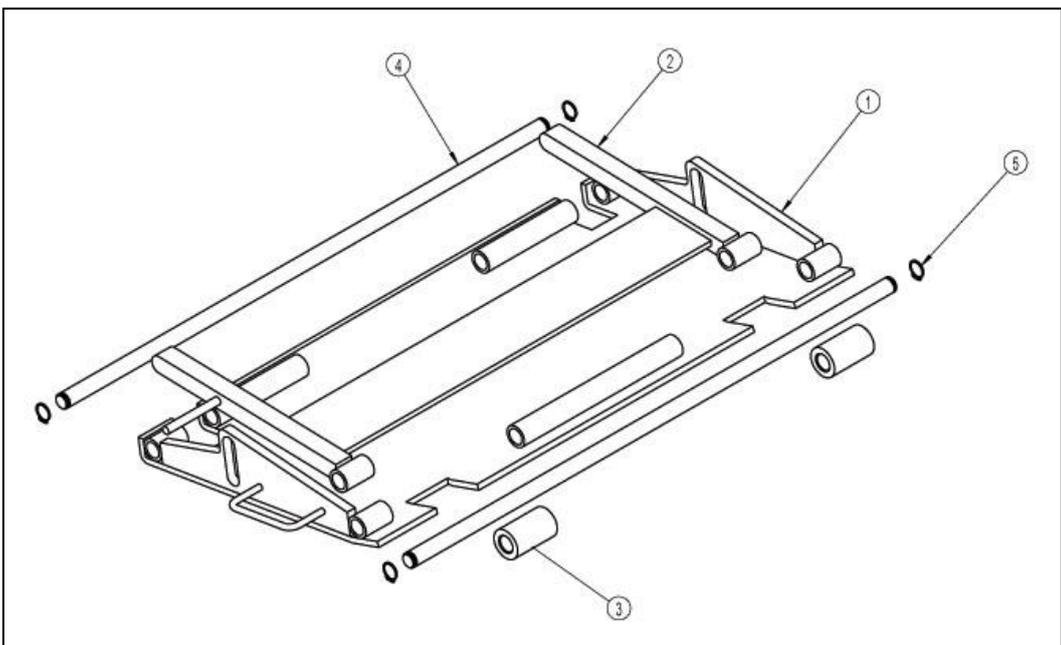


Picture number	Spare part no.	Description	Quantity
1	00-00	Base plate	1
2	00-03	Inner bottom scissor	1
3	00-02	Outer bottom scissor	1
4	00-05	Inner top scissor	1
5	00-04	Outer top scissor	1
6	00-06	Platform	1
7	00-07	Lifting unit	1
8	00-17	Piston	1
9	00-13	Cover	1
10	MSF-GA-M08.0-S-012	Screw	2
11	00-22	Safety teeth	1

12	BSF-BO-M06.0-S-012	Screw	4
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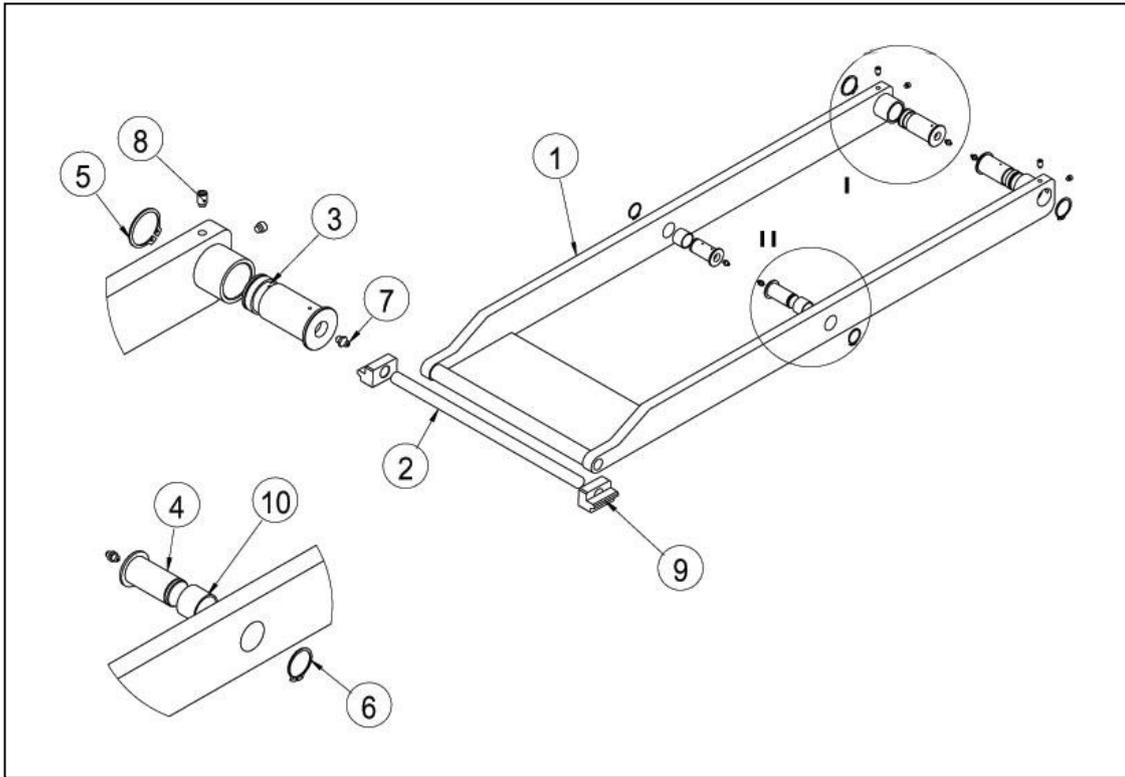
Picture number	Spare part no.	Description	Quantity
1	00-06-01-00	Platform	1
2	00-06-A	Platform extension	2
3	00-06-01-00	Platform protection	1



Picture number	Spare part no.	Description	Quantity
1	00-06-02-00	Platform extension	1
2	00-06-03	Platform extension lock	1
3	00-06-05	Platform extension eye	2
4	00-06-04	Shaft	2

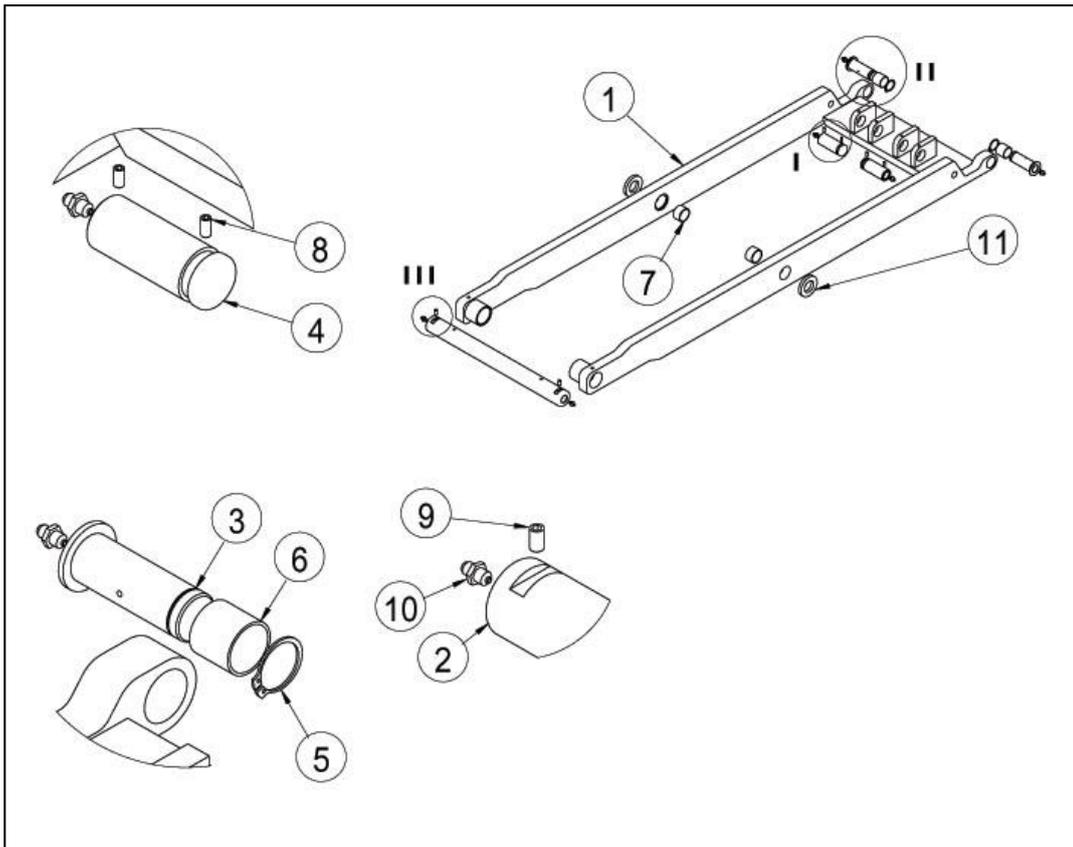
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5	EXTCI-015	Lockring	4
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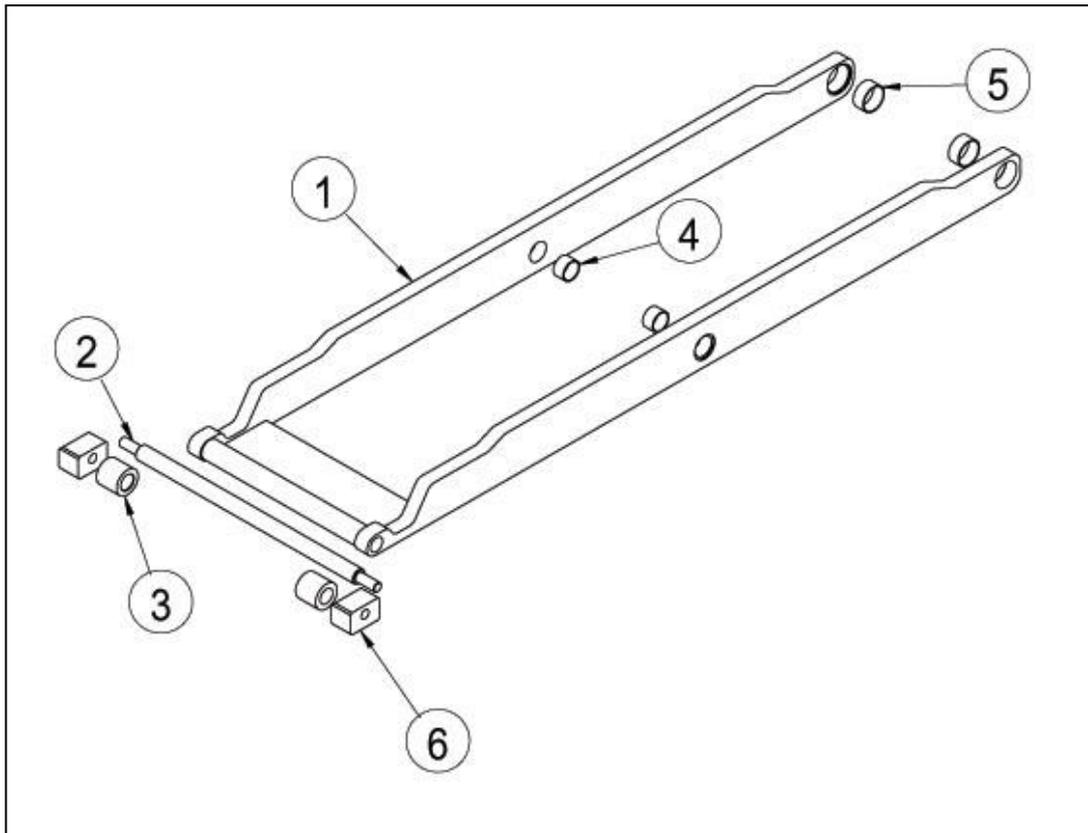
Picture number	Spare part no.	Description	Quantity
1	00-02-01	Outer bottom scissor	1
2	00-02-04	Shaft	1
3	00-02-06	Shaft	2
4	00-02-05	Shaft	2
5	EXTCI-040	Lockring	2
6	EXTCI-030	Lockring	2
7	SP0FC-GA-M08.0-1	Oil lubricator	4
8	SSC-GA-A-C-M10.0-016	Pointed	4
9	00-02-03	Slider	2
10	34-30-25	Bushing	2

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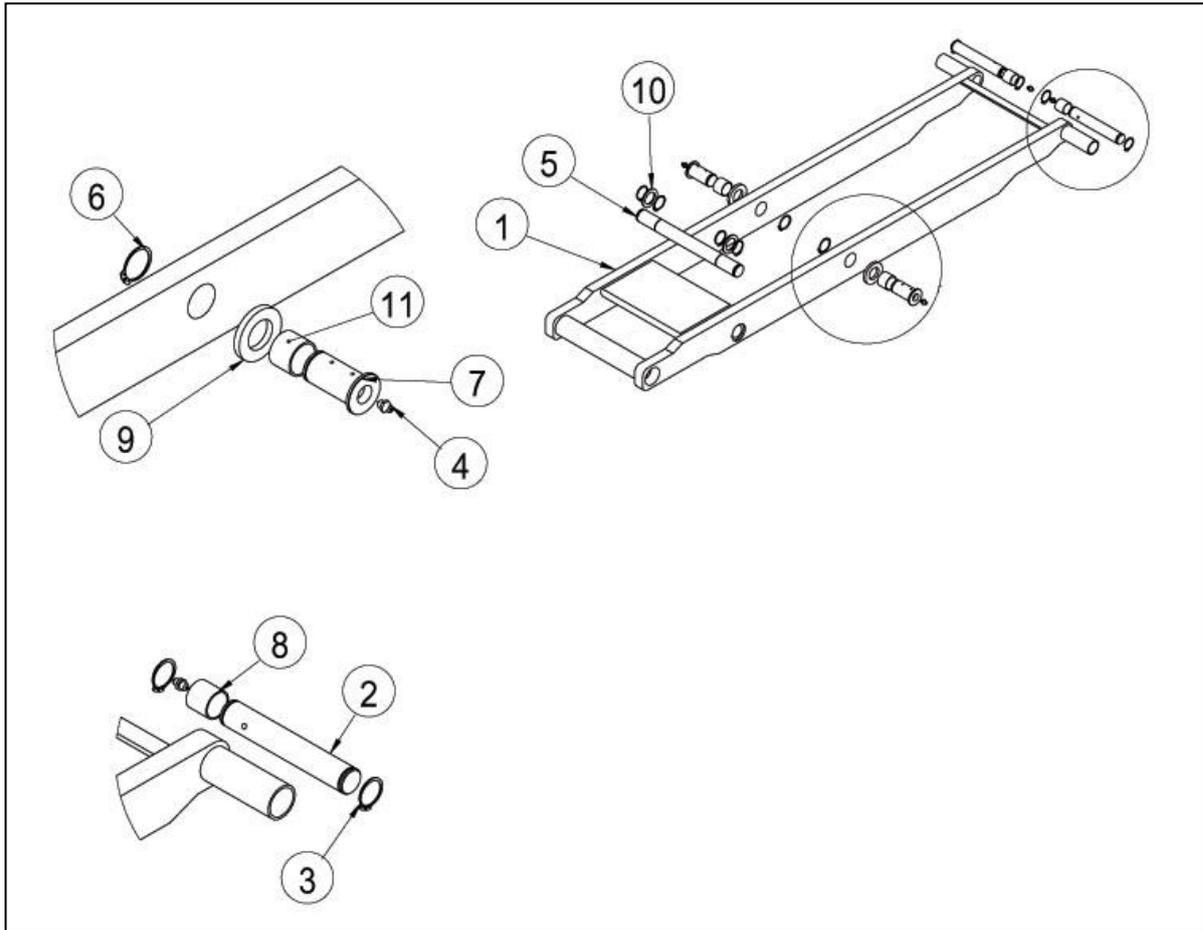
Picture number	Spare part no.	Description	Quantity
1	00-03-01	Inner bottom scissor	1
2	00-03-02	Shaft	1
3	03-03-04	Shaft	2
4	00-03-03	Shaft	2
5	EXTCI-025	Lockring	2
6	28-25-25	Brushing	2
7	34-30-20	Brushing	2
8	SSC-BO-A-P-M06.0-010	Pointed	4
9	SSC-BO-A-P-M08.0-012	Pointed	2
10	SP0FC-GA-M08.0-1	Oil lubricator	6
11	02-02-05-02	Washer	2

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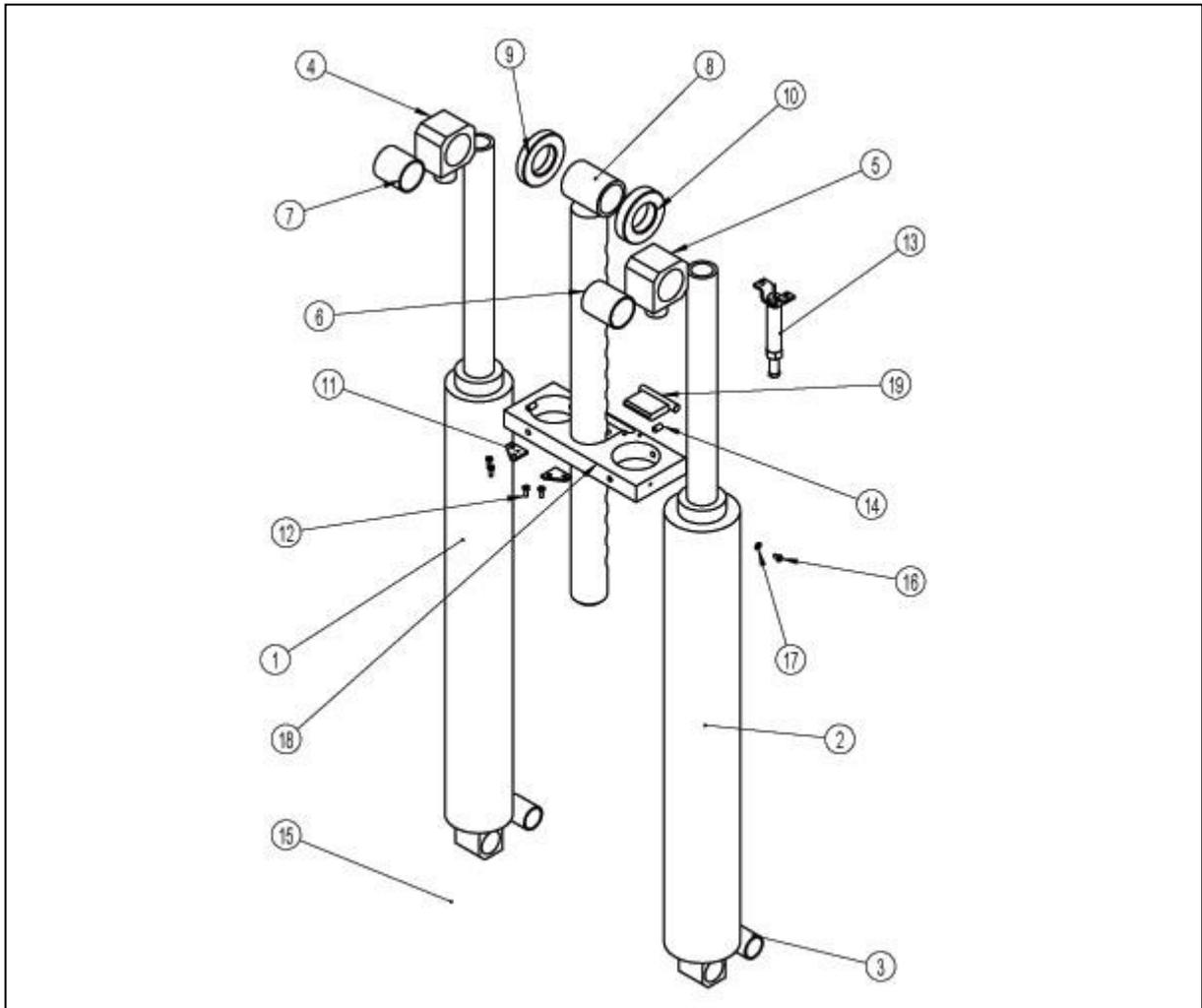
Picture number	Spare part no.	Description	Quantity
1	00-04-01	Outer top scissor	1
2	00-04-03	Shaft	1
3	00-04-04	Brushing	2
4	34-30-20	Brushing	2
5	44-40-20	Brushing	2
6	00-04-02	Slide	2

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Picture number	Spare part no.	Description	Quantity
1	00-05-01	Inner top scissor	1
2	00-05-03-01	Shaft	2
3	EXTCI-025	Lockring	4
4	SPOFC-GA-M08.0-1	Oil lubricator	4
5	00-05-02-01	Shaft	1
6	EXTCI-030	Lockring	6
7	00-02-05-01	Washer	2
8	28-25-25	Bushing	2
9	02-02-05-01	Washer	2
10	02-02-05-03	Washer	2
11	34-30-25	Brushing	2

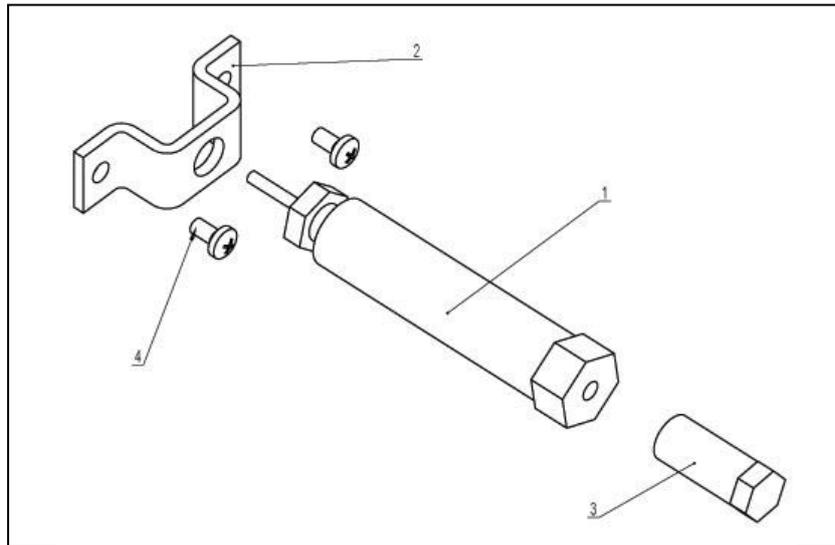
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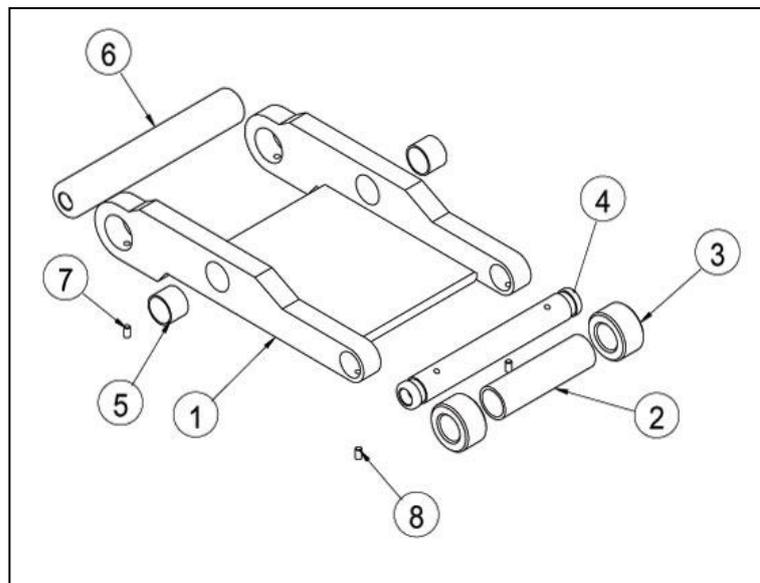
Picture number	Spare part no.	Description	Quantity
1	00-21-01	Piston (No return pipe)	1
2	00-21-02	Piston (With return pipe)	1
3	32-28-40	Piston mounting tube	2
4	00-08-08-01	Piston head	1
5	00-08-08	Piston head	1
6	44-40-50	Brushing	1
7	44-40-45	Brushing	1
8	00-08-00	Brushing	1
9	00-08-04	Washer	1
10	00-08-04-01	Washer	1
11	00-08-05	Locking plate	2
12	MSF-GA-M05.0-S-012	Screw	4
13	00-18	Safety lock air triggers	1
14	SSC-BO-A-P-M08.0-012	Pointed	4
15	00-08-03-01	Piston mounting tube	1
16	MSF-GA-M05.0-S-10	Screw	2
17	WS-S-GA-M05.0	Screw	2
18	00-08-03	Piston/Lock plate	1

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19	00-08-01-03	Safety lock pal	1
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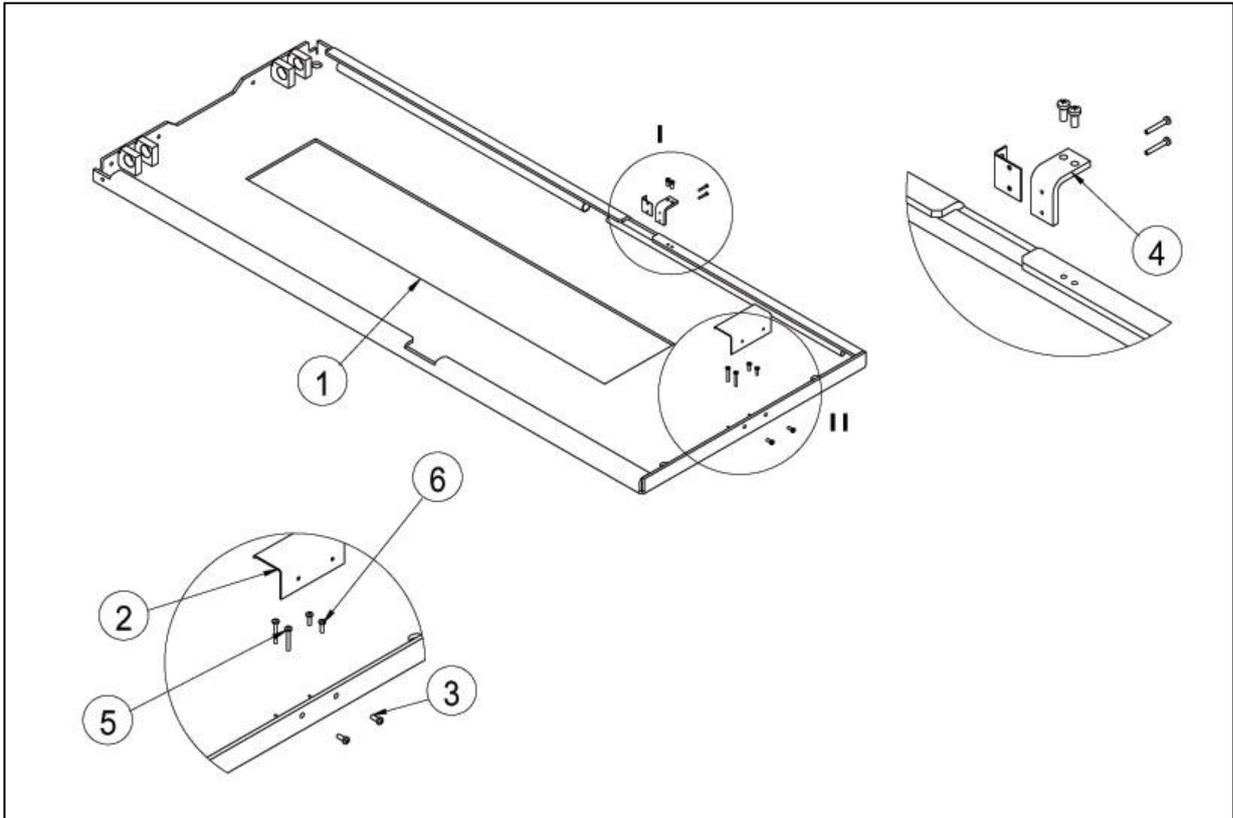


Picture number	Spare part no.	Description	Quantity
1	CJPB6-15	Safety lock air triggers	1
2	00-08-06	Air trigger holder	1
3	PL6-M5	Air trigger screw	1
4	MSF-GA-M05.0-S-010	Screw	2

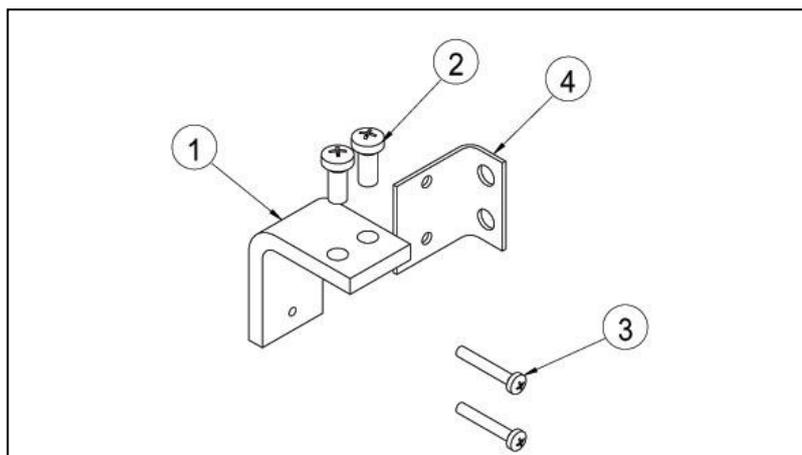


Picture number	Spare part no.	Description	Quantity
1	00-07-01	Lifting unit	1
2	00-07-03	Mid shaft tube	1
3	00-07-04	Shaft end	2
4	00-07-02	Shaft	1
5	34-30-25	Brushing	2
6	00-08-01	Shaft	1
7	SSC-BO-A-P-M08.0-012	Pointed	2
8	SSC-BO-A-P-M08.0-010	Pointed	2

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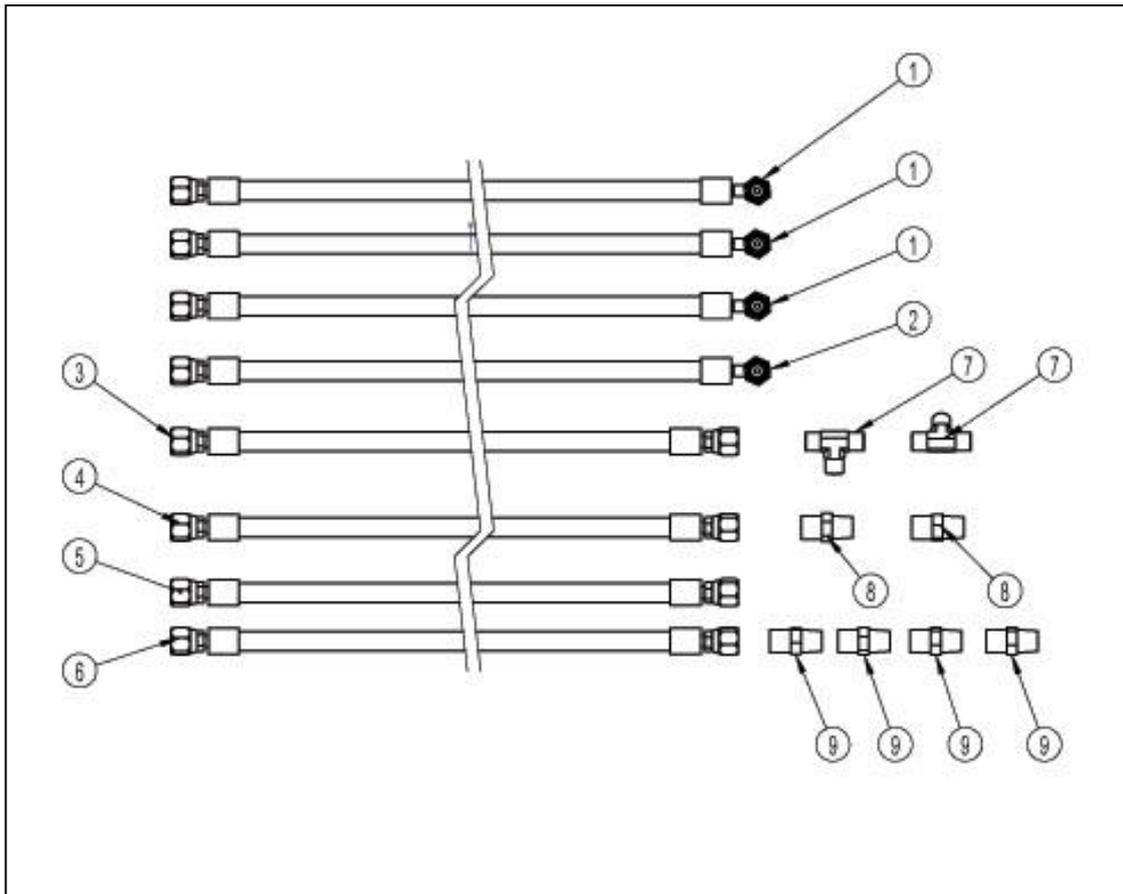


Picture number	Spare part no.	Description	Quantity
1	00-01	Base plate	1
2	00-15	Bottom stop protection	1
3	MSF-GA-M0.5.0-S-012	Screw	2
4	00-14	Metal angle	1
5	MSF-GA-M04.0-S-025	Screw	2
6	MSF-GA-M04.0-S-014	Screw	2



Picture number	Spare part no.	Description	Quantity
1	00-14-01	Metal angle	1
2	MSF-GA-M05.0-S-012	Screw	2
3	MSF-GA-M03.0-S-020	Screw	2
4	00-14-02	Metal angle	1

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Picture number	Spare part no.	Description	Quantity
1	00-20-03	Hydr. angle connection	3
2	00-20-04	Hydr. angle connection	1
3	00-20-05	Hydr. connection	1
4	00-20-06	Hydr. Connection	1
5	00-20-07	Hydr. Connection	1
6	00-20-08	Hydr. Connection	1
7	00-20-09	Hydr. Connection	2
8	00-20-01	Hydr. Connection	2
9	00-20-02	Hydr. connection	4

Annex 11, Approvals.



EC Declaration of Conformity

according to the Machinery Directive 2006/42/EC



For the following equipment :

Product : Vehicle lift

Type Designation /Trademark : JA6000S-E, JA6001S-E

Manufacturers Name : Jema Autolifte Co., Ltd.

Manufacturers Address : Li Xianzhuang Community, Shangma District,
Chengyang, 266000 Qingdao, China

Refer to in this declaration conforms to the following directive(s)/standards:

2006/42/EC, EN 1493:2010, EN 60204-1+A1:2009

The company named above will keep on file for review the following technical documentation:

- Operating and maintenance instructions
- Technical drawings
- Risk assessment
- Description of measures designed to ensure conformity
- Other technical documentation ,e.g. quality assurance measures for design and production

Name and address of the person (established in the Community) compiled the technical file: Kasper Petersen; Industrihegnet 2, 4030 Tune, Denmark

Responsible for marking this declaration is the:

Manufacturer Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name :.....

Company Address :.....

Person responsible for making this declaration

Name ,Surname :**Jing Nianming**.....

Position/ Title :**Engineer**.....

Qingdao, China
(place)

01-Dec-2014
(date)

Jema Autolifte Co., Ltd.
(company stamp and legal signature)

