

Jema Autolifte – Denmark - WE ARE HERE TO SURPRISE!



JA4000T

Lifting capacity: 4000KG

Floor Plate Two Post Lift

Electrical Release

Original Instruction



**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 give the user one-year warranty of quality for the lift. If something wrong with the lift within the term of service, we will repair or replace the product according to the user's demand. The manufacturer will not take any responsibility for improper installation and operation, overload running, wrong concrete ground (that cannot meet the requirements in the manual), normal mechanical abrasion and insufficient maintenance. The warranty will be carried out based on the type and serial number of the equipment. Therefore, the users shall provide them to the manufacturer when asking service.

The 2-post lift is suitable for lifting motor vehicles having maximum weight as described, any other use is to be considered improper and irrational and thus highly forbidden. The constructor cannot be held responsibilities for any damage or injuries caused by an improper use or by the non-observance of the following instructions.

Read this guide carefully before using the lift and follow the instructions given by this guide to grant the lift a correct function, efficiency, and a long service life.

1.2 Qualified personnel

1.2.1 The lift may only be used by qualified staff, properly trained for the specific use of the lift.

1.2.2 The wiring must comply with local code and a certified electrician for electrical hook up.

1.2.3 Only authorized personnel are allowed in lifting area.

1.3 Danger notices

1.3.1 Do not install the lift on any asphalt surface.

1.3.2 Read and understand all safety warning procedures before operating the lift.

1.3.3 The lift, in its standard version, is not designed for outdoor use.

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

1.3.5 The lift may only be used by qualified staff, properly trained for the specific use of the lift.

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

1.3.7 The lift surrounding area must be free from people or objects which could be a danger for lifting operations.

1.3.8 The lift is only designed to lift the entire body of vehicle, having maximum weight not more than the lift capacity.

1.3.9 Always ensure the safety devices are engaged before any attempt to work on or near vehicle.

1.3.10 The vehicle must be centered and positioned in a stable correct way with respect to the posts and following the instructions given by manufacturer.

1.3.11 Make sure that the lift and its devices are working correctly, according to the specific instructions for maintenance.

1.3.12 Lower the lift to its lowest position when service finishes.

1.3.13 Do not modify the lift without manufacturer's advice.

1.3.14 If the lift is not to be used any more, owners is suggested to removing the power supply connections, emptying the oil tank and disposing the liquids by right way.

1.3.15 If the lift is to be left unused for a long period, proceed as follows:

a. Disconnect the energy source.

b. Empty the oil tank.

c. Grease the moving parts which might be damaged by dust or drying out.

1.4 Condition notices

Generally, this lift will be installed on the following conditions:

1.4.1 Supply voltage: 0.9 - 1.1 nominal supply voltage

1.4.2 Source frequency: 0.99 - 1.01 nominal frequency

1.4.3 Ambient temperature: 5°C - 40°C

1.4.4 Altitude: shall be at altitudes up to 1000m above mean sea level

1.4.5 Relative humidity: not exceed 50% at 40°C

1.4.6 Atmosphere: Free from excessive dust, acid fume, corrosive gases and salt.

1.4.7 Avoid exposing to direct sunlight or heat rays which can change the environmental temp.




1.4.8 Avoid exposing to abnormal vibration.

1.4.9 Electrical equipment shall withstand the effects of transportation and storage temperature within a range of -25°C to 55°C and for short periods not exceeding 24 hours at up to +70°C.

Attention: Dispose the unused oil by a correct way to protect the surround environment.

1.5 Warning signs

All safety warning signs presented on the lift with the purpose to draw the operator's attention from dangerous or unsafe situations. The labels must be kept clean and have to be replaced if detached or damaged. Read the meaning of the labels carefully and memorize it.

 <p>Remain clear of lift when lowering or lifting vehicle.</p>	 <p>Clear area if vehicle is in danger of falling.</p>	<p>CAUTION</p>  <p>Lift vehicle at the manufacturer's points</p>	<p>CAUTION</p>  <p>Always use safety stands when removing/ installing heavy components</p>																				
 <p>Locate the vehicle with center gravity right between two adapters.</p>	 <p>Keep feet away from adapter while lift lowering.</p>	<p>CAUTION</p>  <p>Use height extension when necessary to ensure good contact.</p>	<p>CAUTION</p>  <p>Auxiliary adapters may reduce load capacity.</p>																				
 <p>Do not override self-closing lift controls</p>	 <p>Do not shake vehicle heavily while on lift.</p>	 <p>Read the manual before installation or operation of the lift</p>	<p>WARNING</p> <ol style="list-style-type: none"> 1. Travelling on the load carrying devices is forbidden. 2. After raising a short distance, checked to ensure that it is correctly and safely positioned. 3. It is forbidden to climb onto the load or load carrying devices when they are raised. 																				
<p>CAUTION</p>  <p>Lift is only allowed to be used by trained operator.</p>	<p>CAUTION</p>  <p>Only authorized personnel allowed in lift area</p>	<p>Arms must support the rated load weight as the following diagram.</p> <table border="1"> <tr> <td data-bbox="815 1668 1070 1845">  </td> <td data-bbox="1070 1668 1326 1845">  </td> </tr> <tr> <td data-bbox="815 1845 1070 1998"> <table border="1"> <thead> <tr> <th>Lifting capacity</th> <th>KG distribution</th> </tr> <tr> <td></td> <td>D E</td> </tr> </thead> <tbody> <tr> <td>4000 kg.</td> <td>2.2 - 1.8T (70-6.1T)</td> </tr> <tr> <td>4200 kg.</td> <td>2.3T - 1.9T (70-6.1T)</td> </tr> </tbody> </table> </td> <td data-bbox="1070 1845 1326 1998"> <table border="1"> <thead> <tr> <th>Lifting capacity</th> <th>KG distribution</th> </tr> <tr> <td></td> <td>D E</td> </tr> </thead> <tbody> <tr> <td>4000 kg.</td> <td>1.8 - 2.2T (70-6.1T)</td> </tr> <tr> <td>4200 kg.</td> <td>1.9T - 2.3T (70-6.1T)</td> </tr> </tbody> </table> </td> </tr> </table>				<table border="1"> <thead> <tr> <th>Lifting capacity</th> <th>KG distribution</th> </tr> <tr> <td></td> <td>D E</td> </tr> </thead> <tbody> <tr> <td>4000 kg.</td> <td>2.2 - 1.8T (70-6.1T)</td> </tr> <tr> <td>4200 kg.</td> <td>2.3T - 1.9T (70-6.1T)</td> </tr> </tbody> </table>	Lifting capacity	KG distribution		D E	4000 kg.	2.2 - 1.8T (70-6.1T)	4200 kg.	2.3T - 1.9T (70-6.1T)	<table border="1"> <thead> <tr> <th>Lifting capacity</th> <th>KG distribution</th> </tr> <tr> <td></td> <td>D E</td> </tr> </thead> <tbody> <tr> <td>4000 kg.</td> <td>1.8 - 2.2T (70-6.1T)</td> </tr> <tr> <td>4200 kg.</td> <td>1.9T - 2.3T (70-6.1T)</td> </tr> </tbody> </table>	Lifting capacity	KG distribution		D E	4000 kg.	1.8 - 2.2T (70-6.1T)	4200 kg.	1.9T - 2.3T (70-6.1T)
																							
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1.6 Level of sound pressure

The sound pressure of the car lift does not exceed 65DB. For the sake of your healthy, we suggest you place a noise meter in the operation area.

1.7 Training

Only qualified personnel can operate and use the lift. Contact the manufacturer to provide with trained courses and aid you in becoming familiar with the car lift.

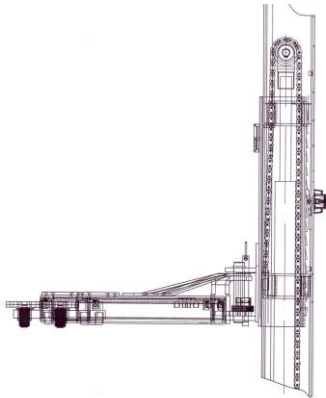
2. Overview of the lift

2.1 Product Introduction

The floor plate lift is composed of posts, carriages, lifting arms, cylinders, and power unit, etc.

The lift is operated by an electric motor controlling a hydraulic system, which delivers the hydraulic fluid to cylinders inside the columns for lifting two trolleys. The safety teeth block will bite with safety plate in the posts automatically. Therefore, the lift will not lower when hydraulic system trouble happens.

Safety structure:

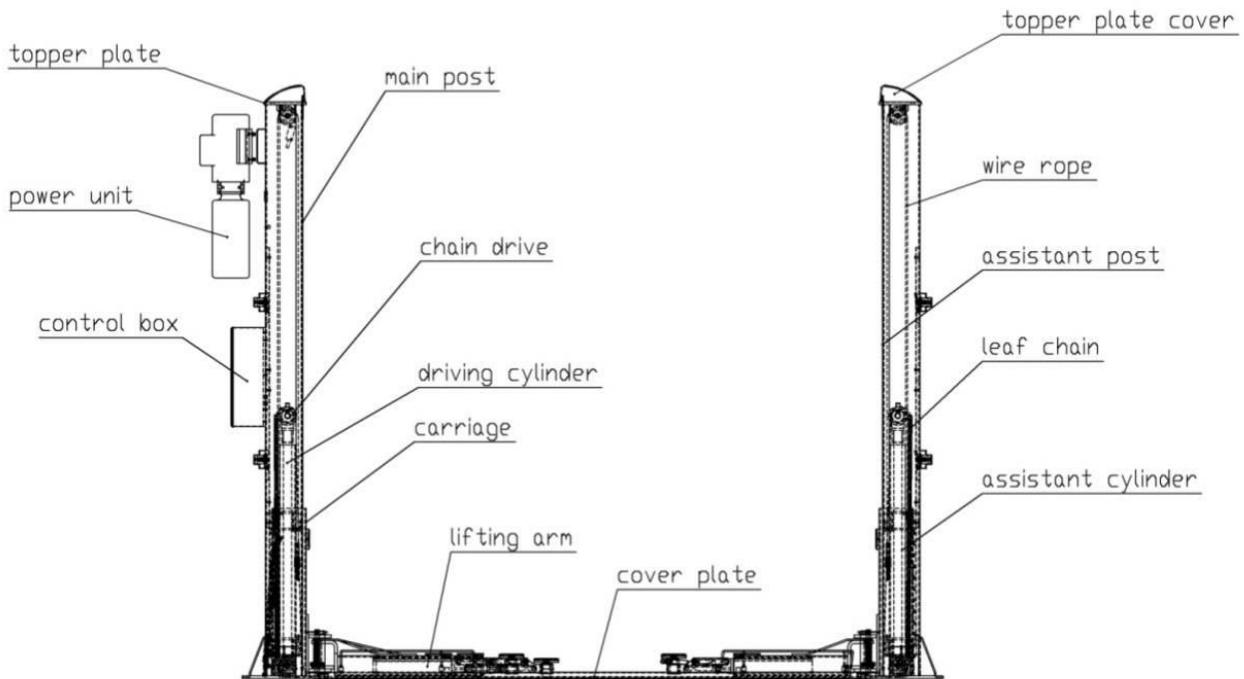


2.2 Technical data

Model	Lifting capacity	Lifting time	Lifting height	Height	Width	Width between posts
JA4000T	4000kg	50 Sec	1900/1960mm	2825mm	3583mm	2820mm

Weight on JA4000T = 640 KG

2.3 Construction of the lift



3.1 Preparation before installation

3.1.1 Tools and equipment needed.

- ✓ Appropriate lifting equipment
- ✓ AW 32. 46 or other good quality garage hydraulic oil.
- ✓ Rotary Hammer Drill with 3/4" drill bit.
- ✓ Chalk line and tape measure.
- ✓ Sockets and Open wrench set.
- ✓ Hammer 4pounds
- ✓ $\Phi 2$ tape measure

3.1.2 Parts check ---annex 1 (shipping sheet)

Remove the packing material, identify the components, and check for shortages as ANNEX 1(shipping sheet), Contact us immediately if shortage discovered. If the buyer still installs the lift upon the shortage, the manufacturer and the dealer will not hold any responsibility and will not solve the problems by free.

3.1.3 Space required.

The lift should be located on a relatively level concrete floor, having minimum thickness of 18cm.

The lift should be fixed on a smooth and solid concrete ground with its strength more than 3000psi, tolerance of flatness less, than 5mm and minimum thickness of 200mm. In addition, newly built concrete ground must undergo more than 28days' cure, and reinforcement.

3.2 Precautions during installation

- 3.2.1 Make sure the two posts are vertical to the floor.
- 3.2.2 Oil hose and wire rope connection should be correct, make sure the joints are tight.
- 3.2.3 All the bolts connection should be tight.
- 3.2.4 Do not place any vehicle when try running the lift.

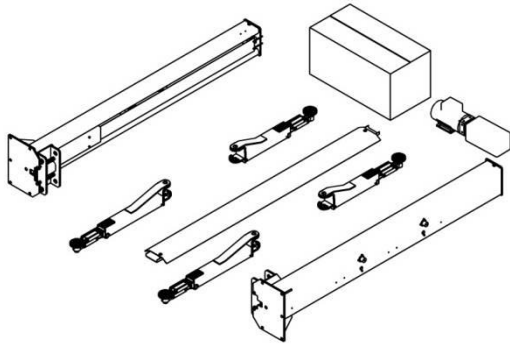
3.3 Installation

Step 1: Remove the packing materials, take out the parts carton and cover plate.

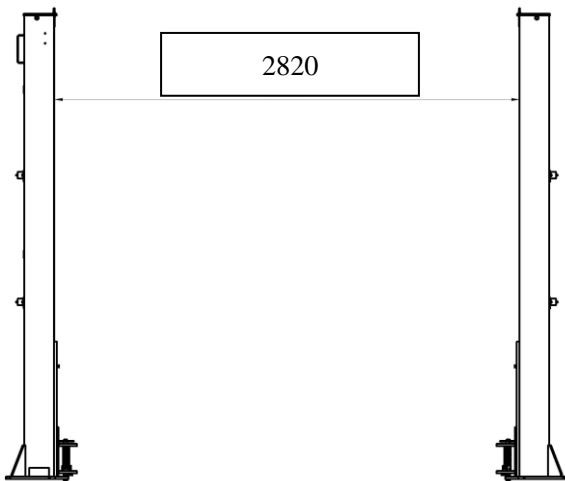
Step 2: Remove the packing brackets and bolts holding the two columns together.

Attention: Be careful in this step, in case the posts fall down & the personnel, or the parts are damaged.

Step 3: Remove the first post and place a supporter under the second post, then remove the bolts.



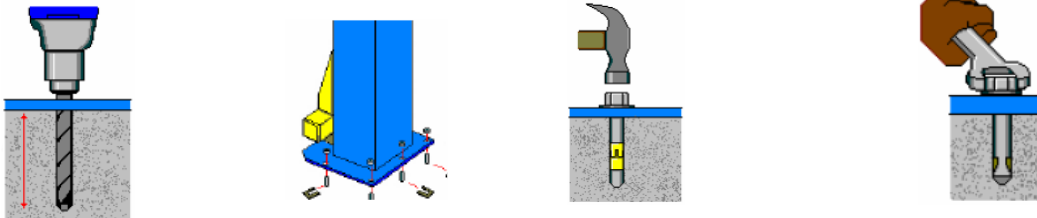
Step 4: Decide the installation position of the columns, erect the main and assistant post. Place the bottom plate between the posts to make sure the width is 100% correct (2820MM)



1. Determine which side will be the main post to mount the power unit and the other assistant post.
2. Once the location is selected, place the bottom plate between the posts to make sure the width is correct and make an outline of the posts on the floor at each location.
3. Before proceeding, double check measurements and make certain that the bases of each column are square and aligned with the chalk line.

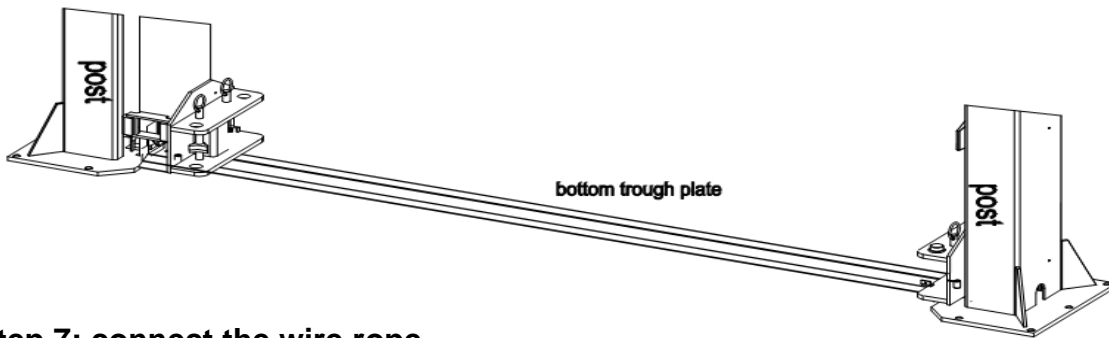
Step 5: erect the posts, main post first and then the assistant post.

1. Drill each anchor hole in the concrete using a rotary hammer drill. To assure full holding power, do not ream the hole or allow drill to wobble.
2. After drilling, remove dust thoroughly from each hole and make certain that the column remains aligned with the chalk line during this process.
3. Position the main column at the designated chalk locations and follow the same procedures step 1, 2 to position the assistant column.



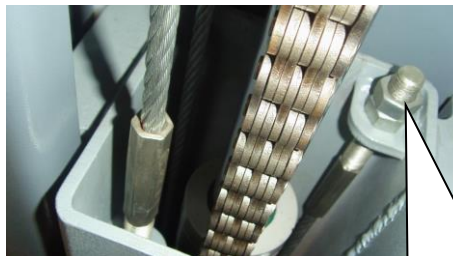
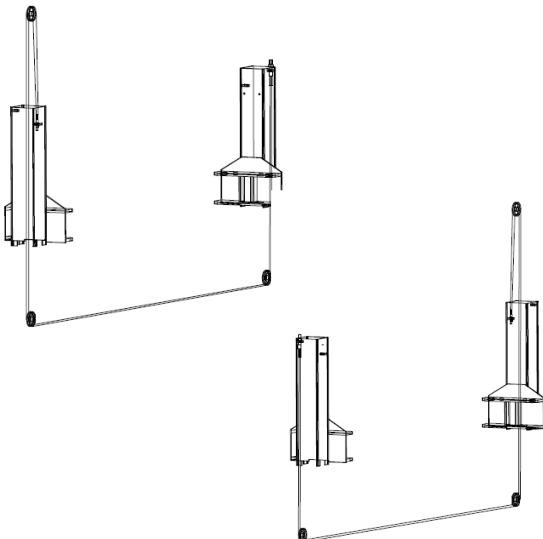
4. Expansion bolts tightened with a torque wrench (12 kg. / 120 Nm.) - After Expansion bolts been tightened, check that the posts are still plumb.

Step 6: Install the bottom trough plate.



Step 7: connect the wire rope.

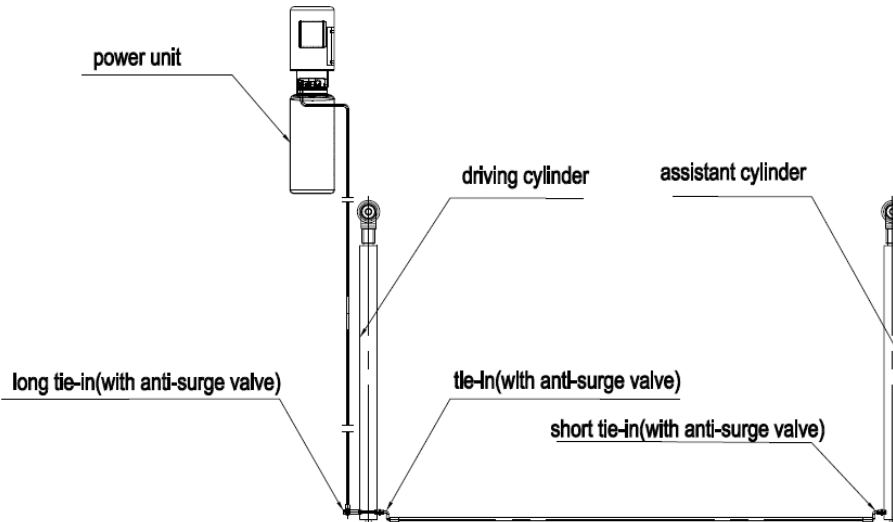
1. Raise and lock each carriage approximately 800mm high above the ground.
2. Make sure that the safety locks on each column are fully engaged before attempting to route equalizer cables.
3. Carriages must be equal height from the floor before proceeding.
4. With the carriages in equal position from the floor, route the equalizer cables as shown.
5. After the equalizer cables have been routed, adjust each cable so that they are equal tension.
6. Grease the wire rope (this step must be carried out)



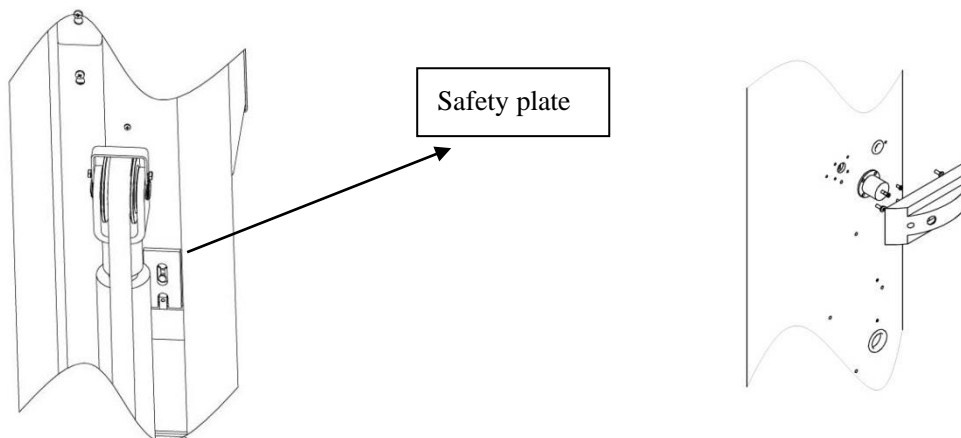
Bolt to adjust the tightness of the wire rope

Step 8: connect the oil hose.

Connect the oil hose as the following diagram.

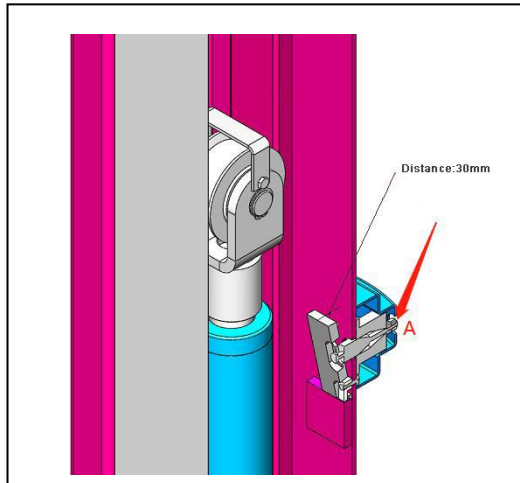


Step 9: Install four safety plates, four electromagnets and the electromagnet cover.



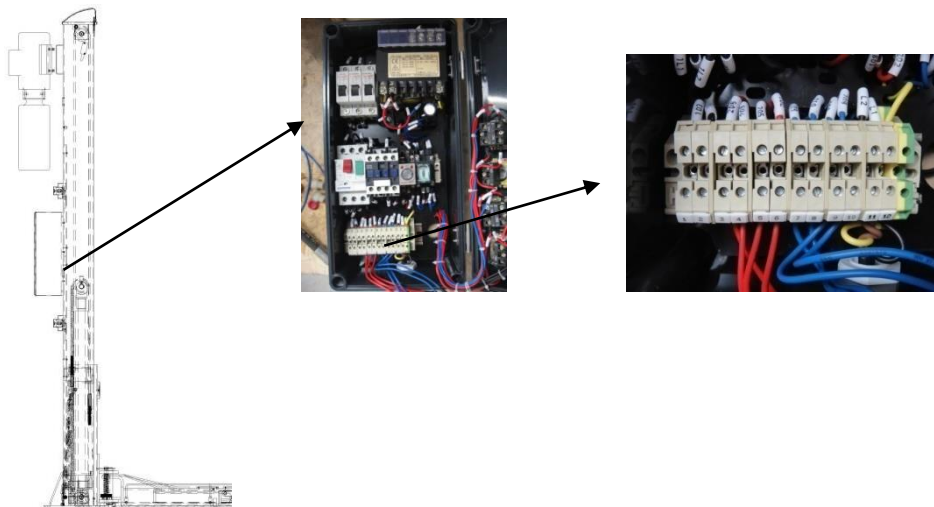
Step 10: Adjustment for the electromagnets

1. The designed distance from post to lock is 30mm, and when installing please check this distance. (See below)
2. Please adjust by screw "A" so the post lock will become 30mm.

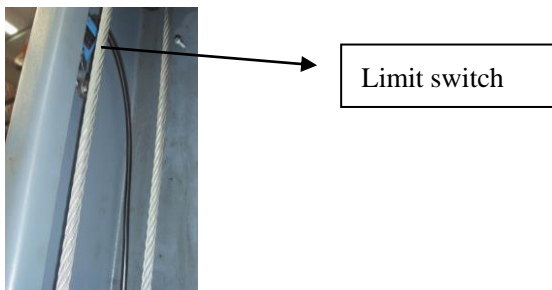


Step 11: mount the power unit and the control box.

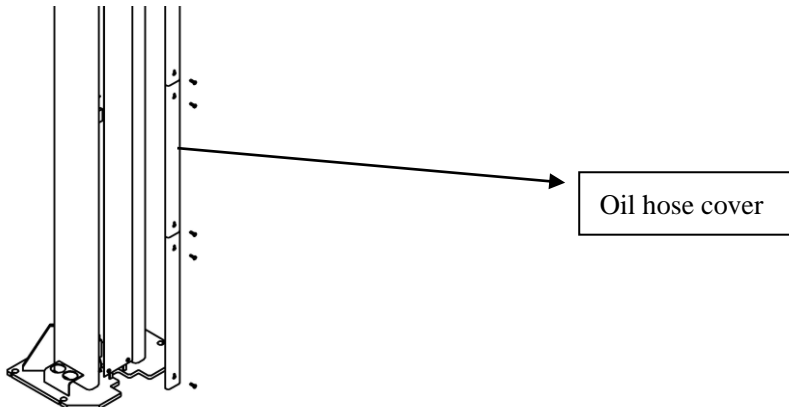
1. Mount the power unit on the main post.
2. Connect the power unit with the control box as the wiring diagram.



3. Connect the limit switch

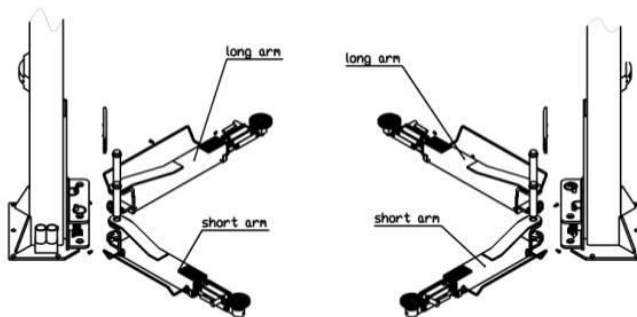


Step 12: Install the oil hose cover.



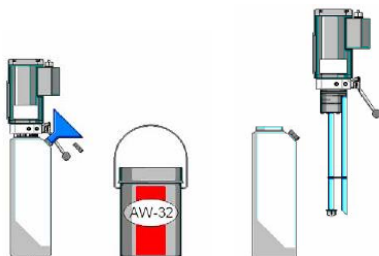
Step 13: Install the lifting arms.

Connect the lifting arm and the carriage by pin. Install the swing arms on the carriages. Check to make sure the rack on the lock should be fully engaged.



Step 14: fill the hydraulic oil.

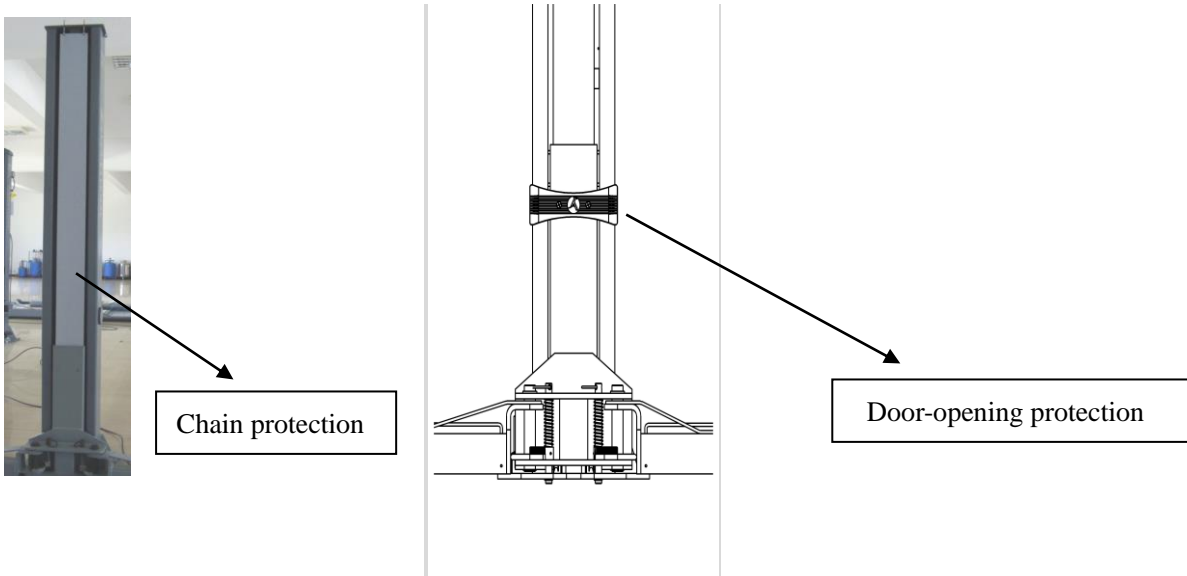
The volume of the oil tank is 10L, to ensure the lift in a normal work condition, the oil should be over 80% of the oil tank volume; Use AW 32# in winter/46# in summer or other good quality garage hydraulic oil.



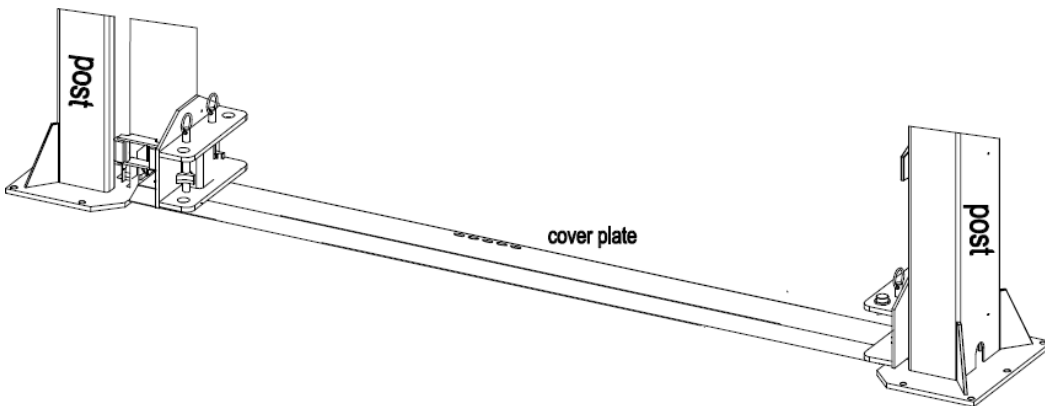
Step 15: try running the lift.

Do not place any vehicle in this step.

Step 16: install the chain protection and the door-opening protection.



Step 17: install the cover plate.



3.4 Check list after installation

S/N	Check items	YES	NO
1	If the columns are vertical to the floor		
2	If the two posts are horizontal		
3	If the oil hose connection is correct		
4	If the wire rope connection is correct		
5	If the arm is fastening		
6	If the wiring is correct		
7	If the other joints are tightened		

4. Operation instruction

4.1 Precautions during operation

Remark: Only authorized staff can adjust the system pressure on the power unit.

4.1.1 Check all the pipelines and joints before use. The lift only can be used after there is not any leakage.

4.1.2 The lift, if its safety device malfunctions, shall not be used.

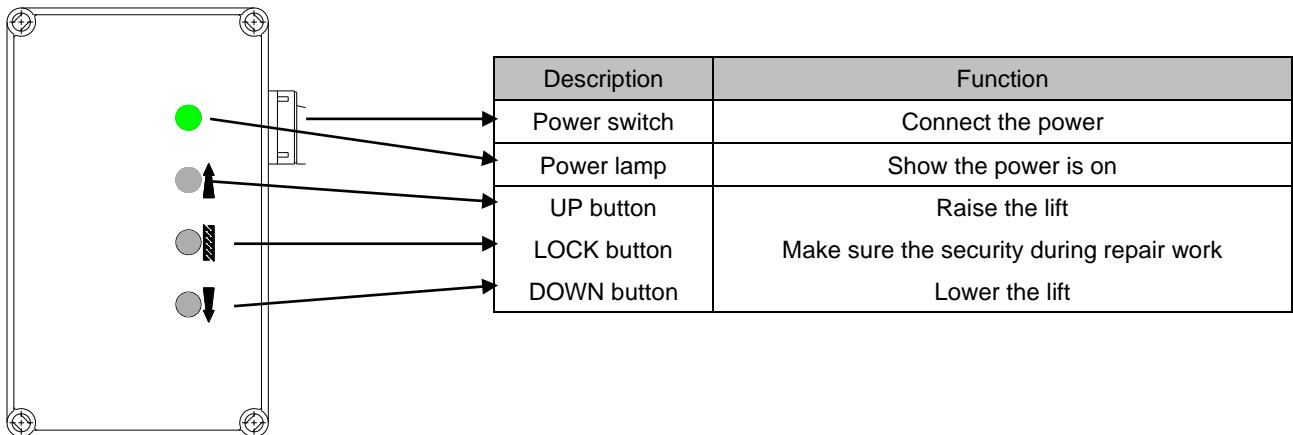
4.1.3 The lift shall not lift or lower an automobile if the center of gravity of automobile is not within the supporting range of the supporting device. Otherwise, the manufacturer will not bear any responsibility for the consequence resulted from the operation above mentioned.

4.1.4 The staff or operators shall be in a safe position when the lift lift or lower.

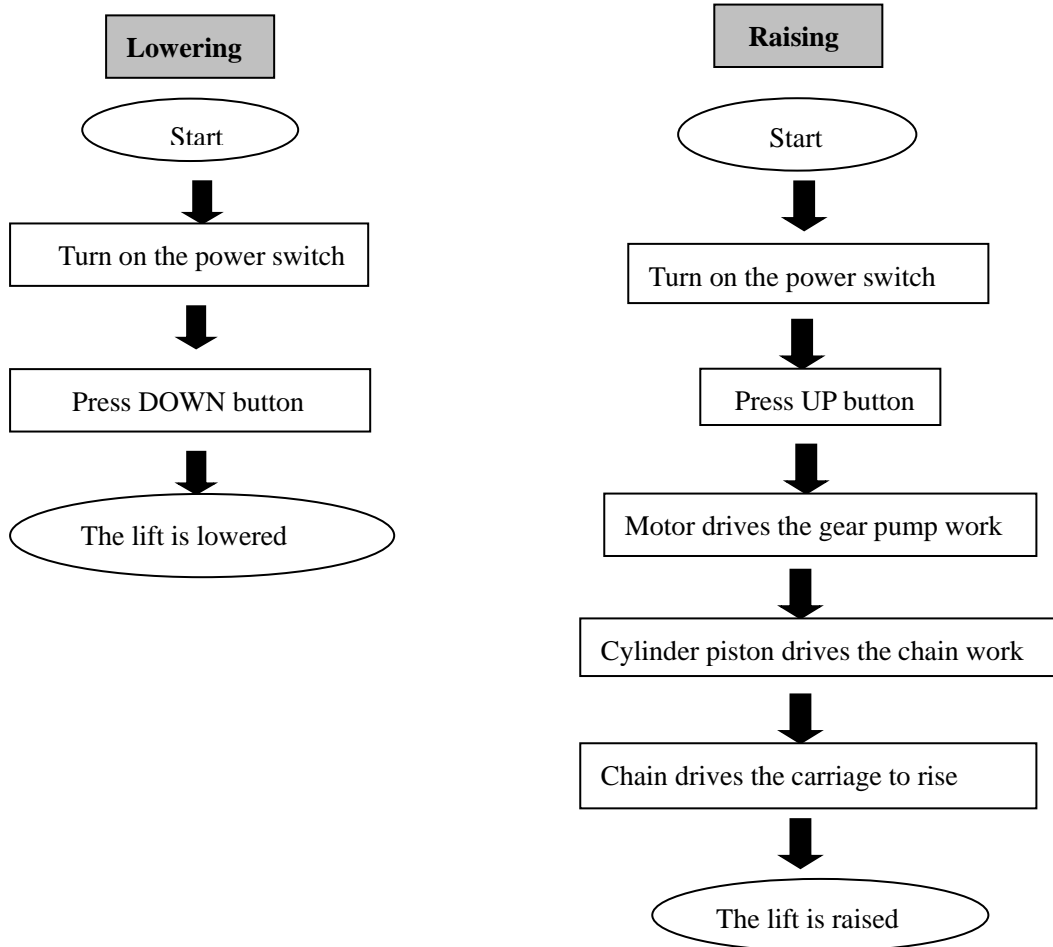
4.1.5 When the lift with vehicle on reaches a desired height, first of all, the main switch must be turned off before the automobile is repaired so as to prevent non-operator or unauthorized person from pressing the start switch.

4.1.6. Always lock the lift by pressing handle on power unit before going under the vehicle. Never allow anyone to go under the lift when raising or lowering.

4.2 control box panel description



4.3 Flow chart for operation



4.4 Operation

Raise the lift.

1. Make sure that you have read the operation manual before operation.
2. Position the vehicle between columns.
3. Adjust the swing lift arms so that the vehicle is positioned with the center of gravity of midway between pads.
4. Turn on the Power Switch, the power indicating light is on, raise the lift by pressing the up button on control box until the pads touch firmly the right points and recheck if the vehicle is secure.
5. Continue to press the UP button to raise the lift to the demanded height.
6. Press the handle of the manual unloading valve to lock the lift.
7. Check the security of vehicle, and then turn off the power switch before performing maintenance or repair work.

Lower the lift.

1. Turn on the power switch.
2. Press the DOWN button on control box, the lift will raise about 5CM automatically to release the safety lock and then, the lift lowers.
3. Before driving the vehicle away, clear all the obstacles.

5. Trouble Shooting.

ATTENTION: If you could not do the trouble shooting by your own, please contact us for help. You are requested to send us the serial No. with detailed description of faulty lift or parts. We keep the right to ask for photos and pictures for diagnostics.

TROUBLE	CAUSE	SOLUTION
Abnormal noise	There is abrasion in the post	Grease the inside of the post
	There is trash in the post	Clear away the trash
Motor does not run and will not rise	The wire connection is loose	Check it and make a good connection.
	The motor is blown	Replace it.
	The limit switch is damaged, or the wire connection is loose	Make a good connection, adjust or replace the limit switch.
Motor runs but will not raise	The motor reverse	Check the wire connection.
	A piece of trash is under overflow valve or the overflow valve is loose	Clean or adjusts it
	The gear pump is damaged	Replace it
	Oil level too low	Oil level should be more than 2/3 oil tank volume.
	The oil absorbing pipe is loose	Tighten it
	A piece of trash is under cushion valve or the cushion valve is loose	Clean or adjusts it
Carriages go down slowly after raising Raising too slow	The oil hose leaks	Check or replace it
	The seal of the cylinder is abrasion	Replace the seal
	The single valve leaks	Clean or replace it
	The overflow valve leaks	Clean or replace it
	Manual unloading valve or electrical unloading valve leaks	Clean or replace it.
	The oil filter is jammed	Clean or replace it.
Lowering too slow	Oil level too low.	Oil level should be more than 2/3 oil tank volume.
	The overflow valve is loose	Adjust it.
	The hydraulic oil is too hot (above 45°)	Change the oil
	The seal of the cylinder is abrasion	Replace the seal.
	The post inside is rough	Grease the post inside
	There is trash in the throttle valve	Clean or replace
The wire rope is abraded	The hydraulic oil is dirty	Change the oil
	There is trash in the anti-surge valve	Replace it
	There is trash in the oil hose	Replace it
	Did not grease the wire rope with grease in installation or the use time of the wire rope is out of its service lifetime	Replace it

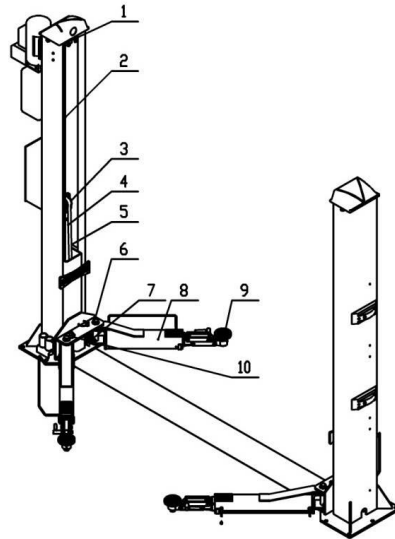
6. Maintenance

The several pieces of maintenance operations to be carried out are described below. A low operating cost and a long life of the lift are from routine observation of the operation.

The listed intervention times are given for information, and they refer to normal operating conditions. They can change according to the kind of service, environment, frequency of use, etc.

THE FOLLOW PARTS ARE NEEDED TO BE LUBRICATED

S/N	Description
1	Upper wheel
2	Wire rope
3	Chain wheel
4	Chain
5	Sliding block
6	Pin
7	Arm block
8	Lifting arm
9	Tray
10	Down wheel



6.1. DAILY PRE-OPERATION CHECK

The user should perform daily check. Daily check of safety latch system is very important. – the discovery of device failure before needed could save you from expensive property damage, lost production time, serious personal injury, even death.

- Check safety lock audibly and visually while in operation.
- Check safety latch for free movement and full engagement with rack.
- Check hydraulic connections and hoses for leakage.
- Check chain connections for bends, cracks, and looseness.
- Check cables connections for bends, cracks, and looseness.
- Check for frayed cables in both raised and lowered position.
- Check snap rings at each roller and sheave.
- Check bolts, nuts, and screws. Tighten if needed.
- Check wiring and switches for damage.
- Keep base plate free of dirt, grease, or any other corrosive substances.
- Check floor for stress cracks near anchor bolts.

6.2. WEEKLY MAINTENANCE

- Check the cleanness of the mobile parts.
- Check the safety device as previously described.
- Check hydraulic fluid level as follow: let the trolleys go up completely and in case they do not reach maximum height, add oil.
- Check and tighten bolts, nuts, and screws.

6.3. MONTHLY MAINTENANCE

- Check the tightening of screws.
- Check the hydraulic system seal and tighten the loose unions, if necessary.
- Check the greasing and wear condition of pins, rollers, bushes, of trolley structure as well as arms and relevant extensions, if necessary, replace the damaged parts by original spare parts.

6.4. YEARLY MAINTENANCE

- Lubricate chain.
- Grease rub blocks and column surface contacting rub blocks.
- Change the hydraulic fluid. Good maintenance procedure makes it mandatory to keep hydraulic fluid clean. Due to operating temperature, type of service, contamination levels, filtration and chemical composition of fluid, the hydraulic fluid may need to be changed more or less frequently.

If the above maintenance operations are carried out, there will be an advantage for the user, who will find the equipment in perfect condition each time he restarts work.

7. ANNEX

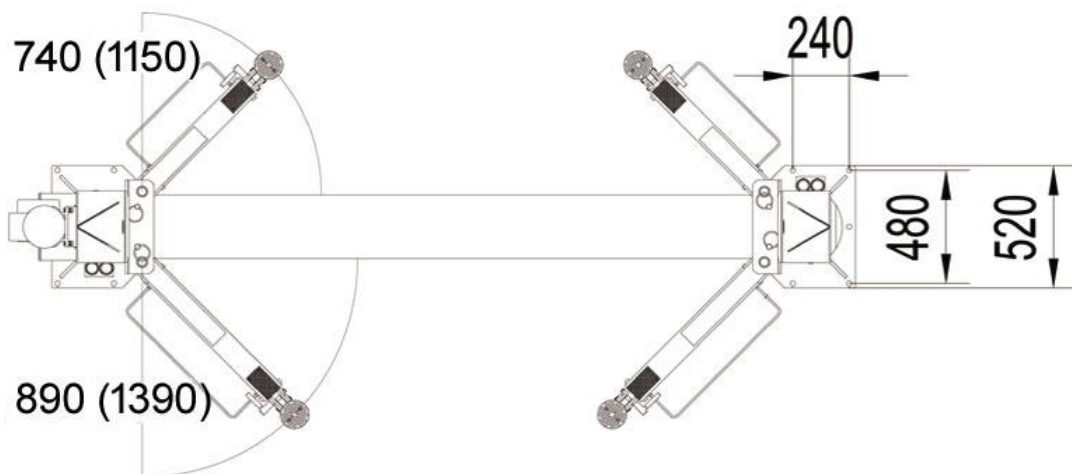
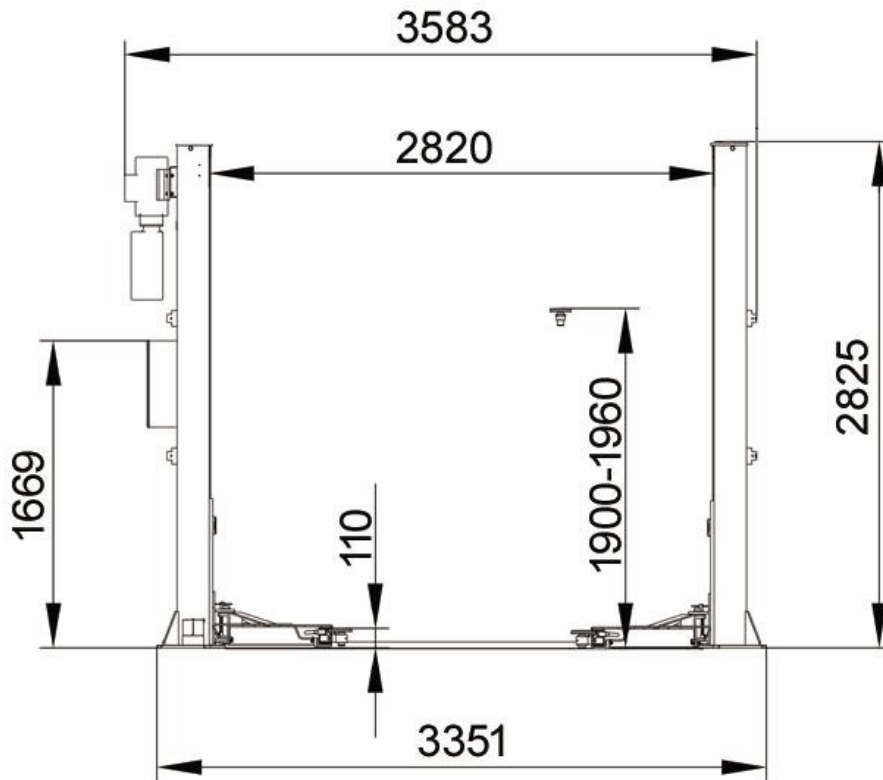
ANNEX1, Shipping Sheet

S/N	DESCRIPTION	PART NO	MATERIAL	Q'TY
1	Main and assistant post	JA4000T-A1	Component	2
2	Carriage	JA4000T -A2	Component	2
6	Power unit	JA4000T -B5-B6	Component	1
7	Assistant cylinder	JA4000T -A5-B4	Component	1
8	Main cylinder	JA4000T -A5-B5	Component	1
9	Electrical system	JA4000T -A5	Component	1
		Control box		1
		Electromagnet and its cover		1
10	Wire rope L=8785mm	JA4000T -A6	Component	2
11	Long arm	JA4000T -A7	Component	2
12	Short arm	JA4000T -A8	Component	2
13	Bottom trough plate	JA4000T -A9	Welding piece	1
14	Cover plate	JA4000T -A10	Q235A	1
15	Right packing frame	JA4000T -A30-B1		
	Topper plate cover	JA4000T -A16	ABS	2

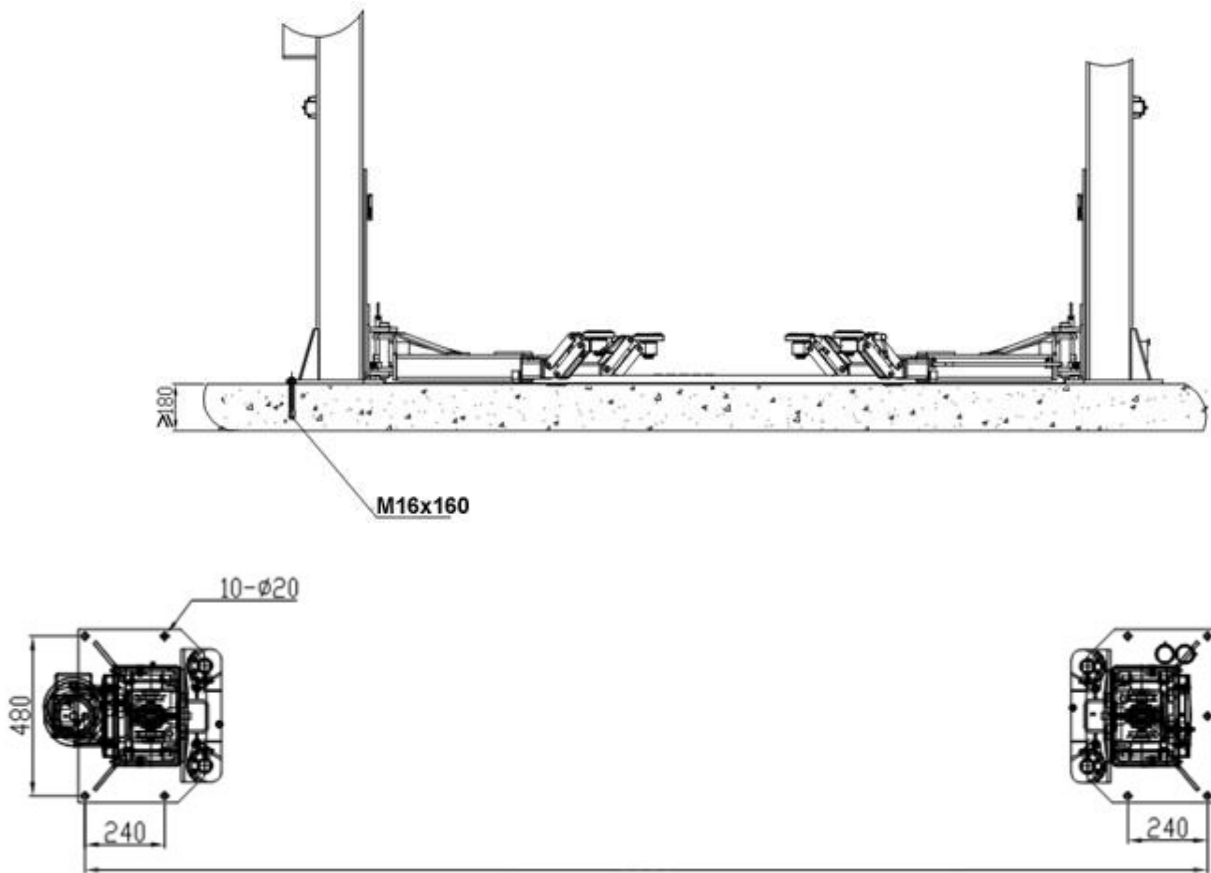
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16	Left packing frame	JA4000T -A30-B2		
20	Carton (include the following parts)			
22	Pin	A12	Component	4
24	Foot protector	A9-B3	Welding piece	2
25	Foot protector	JA4000T -A7-B5	Component	2
26	Tray	JA4000T -A7-B4	Component	4
27	Pulling rod	JA4000T -A2-B1	Component	4
28	Oil hose L=2550mm	JA4000T -B4-B1	Component	1
29	Oil hose L=2880mm	JA4000T -B4-B2	Component	1
30	Safety plate	JA4000T -A13	45	4
32	Electromagnet cover	JA4000T -A15	ABS	4
34	Positioning block	JA4000T E-A17	Q235A	4
35	Oil hose cover	JA4000T -A18	Q235A	6
36	Chain protection	JA4000T -A1-B5		2
37	Chain protection hook	JA4000T -A1-B6	Welding piece	4
38	Door-opening protection	JA4000T -A7-B10	Rubber	2
39	Bolt	M8*30	Standard piece	4
41	Screw	M8*12	Standard piece	8
42	Screw	M5*10	Standard piece	24
43	Screw	M5*20	Standard piece	12
44	Screw	M6*8	Standard piece	4
45	Screw	M6*16	Standard piece	4
46	Screw	M8*25	Standard piece	4
47	Flat washer	6	Standard piece	8
48	Flat washer	10	Standard piece	4
49	Spring washer	10	Standard piece	4
50	Nut	M6	Standard piece	8
51	Nut	M0	Standard piece	4
52	Circlip for shaft	50	Standard piece	4
53	Expansion bolt	M16*160	Standard piece	10

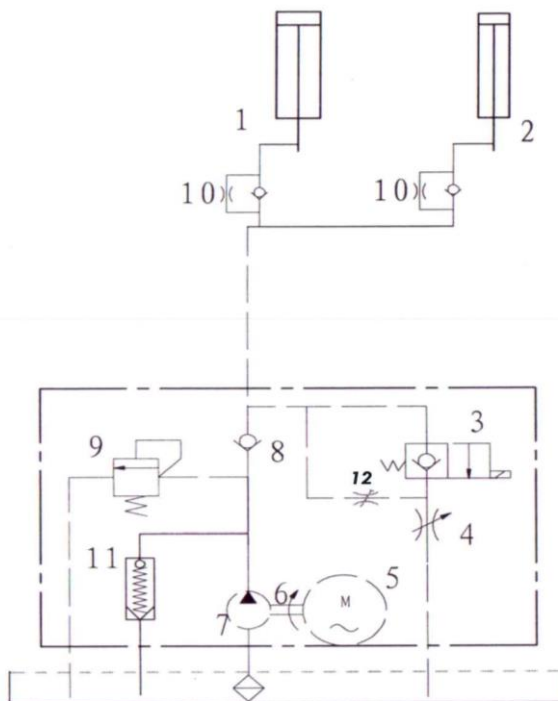
ANNEX 2, Overall Diagram



ANNEX3, Space Required

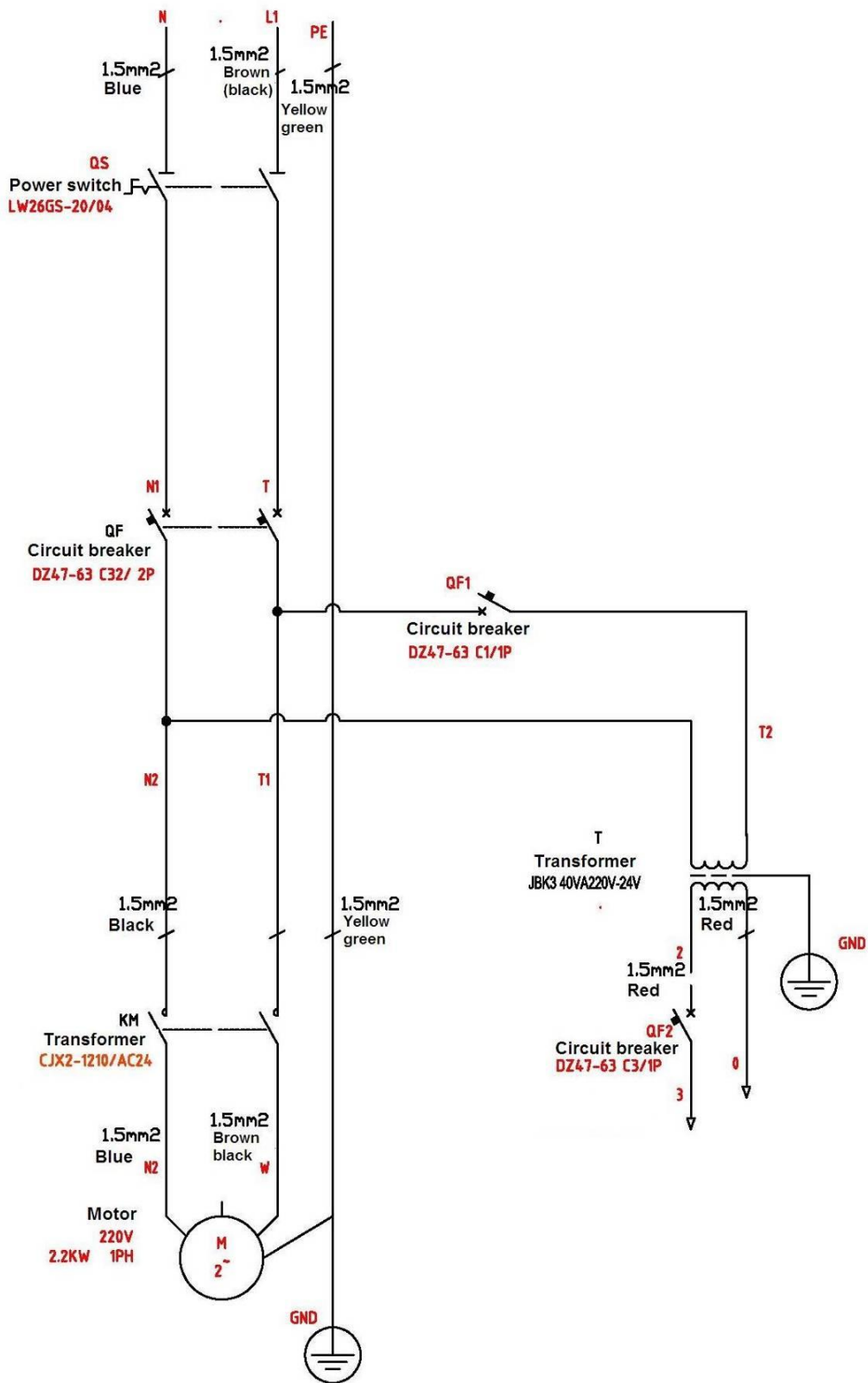


ANNEX4, Hydraulic Connection



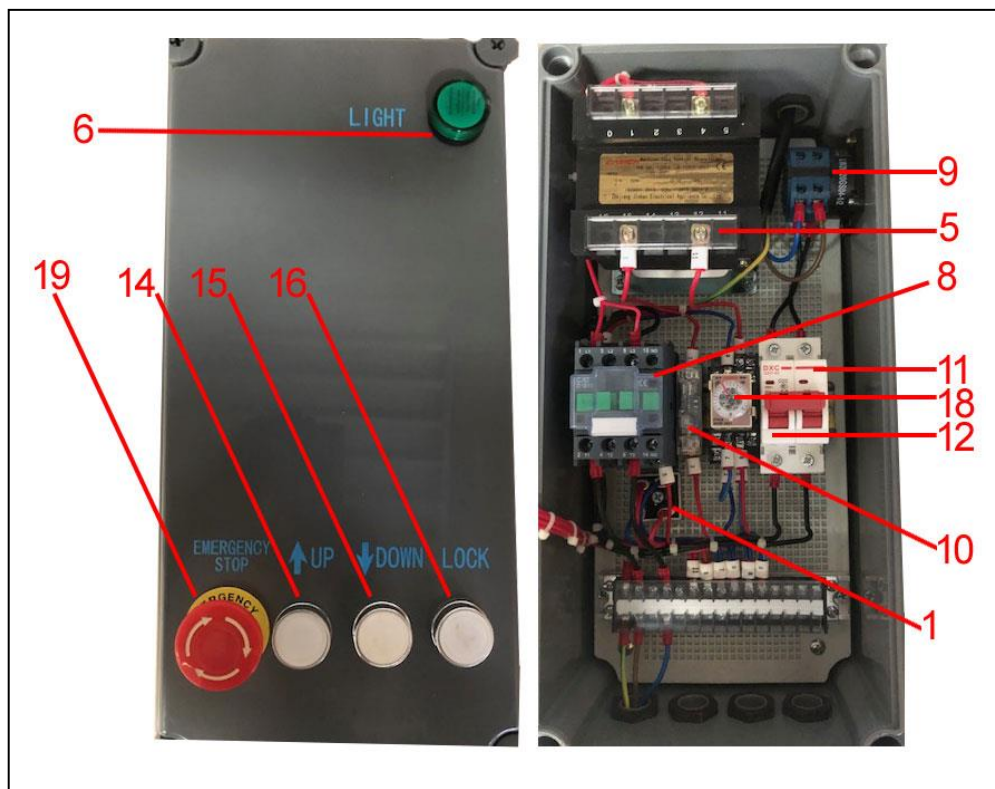
1. main cylinder
2. assistant cylinder
3. electrical unloading valve
4. throttle valve
5. motor
6. coupling
7. gear pump
8. single-way valve
9. overflow valve
10. anti-surge valve
11. cushion valve

Annex5, Wiring diagram Single phase.



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S/N	PART NO	DESCRIPTION	SPEC	Q'TY	REMARK
1	VD	RECTIFIER	KBPC5A-35A	1	
2	YV	ELECTROVALVE	DC24V	1	
3	YA	ELECTROMAGNET	MQZ2-10/DC24	4	
4	C	CAPACITOR	4700UF-50V	1	
5	JBK	TRANSFORMER	JBK3-100VA	1	
6	HL	POWER LAMP	AD17	1	
7	SQ1	LIMIT SWITCH	8104	1	
8	KM	AC CONTACTOR	CJX2-1210/AC24	1	
9	HK	POWER SWITCH	LW26GS-20/04	1	
10	FU2	FUSE	5A	1	
11	FU1	FUSE	16A/32A	3/2	
12	FU	FUSE	10A	1	
13	M	MOTOR	380V 220V 2.2KW	1	
14	SB3	BUTTON	Y090	1	DOWN
15	SB2	BUTTON	Y090	1	LOCK
16	SB1	BUTTON	Y090	1	UP
18	KT	TIME RELAY	ST6PA-5S/AC24	1	
19	SB4	EMG. STOP	Y090	1	



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S/N	DRAWING#	DESCRIPTION	Q'TY	MATERIAL	REMARK
001	JA4000T-A1	Main post	1	Welding piece	
002	JA4000T -A2	Assistant post			
007	SF-1	Oil less bearing 2512	4	Standard piece	
008	JA4000T -A1-B2	Spacer	4	Q235A	
009	GB/T894.1-1986	Circlip for shaft 25	2	Standard piece	
012	JA4000T -A1-B1	Down wheel	1	45#	
013	JA4000T -A11	Height adapter	4	Welding piece	130MM
014	GB/818-2000	Screw M6*20	12	Standard piece	
015	JA4000T -A18	Oil hose cover	6	Q235A	
016	JA4000T -A13	Safety plate	4	45#	
017	JA4000T -A17	Positioning block	4	Q235A	
018	GB/818-2000	Screw M6*16	4	Standard piece	
019	GB/818-2000	Screw M5*10	16	Standard piece	
020	JA4000T -A14	Electromagnet	4	Component	
021	JA4000T -A15	Electromagnet cover	4	Plastic	
022	GB/818-2000.	Screw M6*16	8	Standard piece	
101		Screw M5*10	2	Standard piece	
102	JA4000T -A3-B3	Screen	2	Q235A	
103	JA4000T -A3-B1	Up wheel	2	45#	
104	SF-1	Oil less bearing 2518	2	Standard piece	
105	JA4000T -A3-B1	Topper plate	2	Welding piece	
106	GB/T93-2000	Flat washer 12	4	Standard piece	
107	GB/T93-2000	Spring washer 12	4	Standard piece	
108	GB/T5781-2000	Bolt M12*25	4	Standard piece	
109	JA4000T -A16	Topper plate cover	2	Plastic	
801	JA4000T -A2-B2	Carriage	2	Welding piece	
814	JA4000T -A2-B1	Pulling rod	4	Welding piece	
815	JA6214F-A3-B5	Compression spring	4	Standard piece	
816	JA6214F-A3-B3	Teeth block	4	Q235A	
817		Circlip for shaft 22	4	Standard piece	
818	5*35	Spring pin	4	Standard piece	
222	M8*16	Screw	4	Standard piece	
223	JA4000T -A7-B10	Door-opening protection	2	Rubber	
224	JA4000T -A7-B1	Sliding block	16	Nylon 1010	
225	JA4000T -A6	Wire rope release	2	Component	L=8785mm
901	JA4000T -A8	Short arm	1	Component	
902	JA4000T -A7	Long arm	2	Component	
903	JA4000T -A12	Pin	4	Component	
904	JA4000T -A8-B5	Foot protector	2	Welding piece	
905	JA4000T -A7-B3	Long extensive arm	2	Welding piece	
906	JA4000T -A7-B1	Long arm	2	Welding piece	
907	JA4000T -A8-B1	Short arm	2	Welding piece	

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908	M5*12	Screw	16	Standard piece	
909	JA4000T -A7-B2	Rubber pad	4	Rubber	
910		Circlip for shaft 26	4	Standard piece	
911	JA4000T -A7-B4-C4	Round rubber pad	4	Rubber	
912	JA4000T -A7-B4-C1	Tray	4	Welding piece	
917	JA4000T -A8-B2	Short extensive arm	2	Welding piece	
918	A9-B3	Foot protector	2	Welding piece	
919	M8*16	Screw	8	Standard piece	
920	M10*16	Screw	12	Standard piece	
921	A4-B3	Teeth block	4	Q235A	
401	A4-B2	Oil hose	1	Component	2880mm
402	JA4000T -A5-B10	Short tie-in	1	35#	With anti-surge valve
403	JA4000T -A5-B-4	Assistant cylinder	1	Component	
404	LH1234-127	Leaf chain	2	Component	
405	JA4000T -A5-B1	Chain wheel seat	2	Welding piece	
406	GB/T894.2-1986	Circlip for shaft 25	4	Standard piece	
407	JA4000T -A5-B2	Chain wheel shaft	2	45#	
408	SF-1	Oil less bearing 2548	2	Standard piece	
409	JA4000T -A5-B3	Chain wheel	2	45#	
410	JA4000T -A5-B11	Screen plate	2	Q235A	
411		Spring washer M6	4	Standard piece	
412		Screw M6*20	4	Standard piece	
413	M10	Nut	4	Standard piece	
414	M10	Flat washer	4	Standard piece	
415	M10	Spring washer	4	Standard piece	
416	M10*30	Bolt	4	Standard piece	
417	JA4000T -A5-B6	Power unit	1	Component	
420	JA4000T -A5-B5	Main cylinder	1	Component	
421	JA4000T -A4-B1	Main oil hose	1	Component	2555mm
422	JA6214-A5-B4	Long tie-in	1	Component	With anti-surge valve
501	JA4000T -A4	Electrical system	1	Component	
502	GB/T70.8-1885	Screw M5*12	4	Standard piece	
601		Nut M6	8	Standard piece	
602	JA4000T -A1-B6	Chain protection hook	4	Welding piece	
603	JA4000T -A1-B5	Chain protection	2	Q235A	L=2700mm
604		Flat washer M6	8	Standard piece	
605	M6*8	Screw	4	Standard piece	
703	JA4000T -A10	Cover plate	1	Q235A	
704	GB/T70.3-2000	Screw M12*16	2	Standard piece	
705	JA4000T -A9	Bottom trough plate	1	Welding piece	

Annex 7. Spare parts list

Spare parts list---electrical system

S/N	Material No.	Description	Spec.	Unit	Q'ty	Remark
1	321001	Power switch	LW26GS-20/04	Pcs	1	
2	328064	Button	Y090	Pcs	3	
3	328003	Power lamp	AD17-22G-AC24	Pcs	1	
4	320009	Transformer	JBK-100VA220V-24V	Pcs	1	The outlook is the same as item 5
5		Transformer	JBK-100VA230V-24V	Pcs	1	The outlook is the same as item 5
6		Transformer	JBK-100VA240V-24V	Pcs	1	The outlook is the same as item 5
7	320019	Transformer	JBK-100VA380V-24V	Pcs	1	
8		Transformer	JBK-100VA400V-24V	Pcs	1	The outlook is the same as item 5
9		Transformer	JBK-100VA415V-24V	Pcs	1	The outlook is the same as item 5
10	328005	AC contactor	CJX2-1210/AC24	Pcs	1	

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11	540035	Fuse holder	TFBR-102	Pcs	1	
12	328008	Fuse holder	RT18-32X	Pcs	3	
13	328010	Fuse	16A (10*38)	Pcs	6	
14	32801	Fuse	32A (10*38)	Pcs	6	
15	328011	Fuse	5A (6*30)	Pcs	2	
16	540088	Fuse	10A (6*30)	Pcs	2	
17	321024	Limit switch	ME8104	Pcs	1	
18	323002	Terminal block	TB1512L	Pcs	1	
19	328026	Rectifier	KBPC5A-35A	Pcs	1	

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20	328014	Capacitor	4700UF/50V	Pcs	1	
21	328074	Control box		Pcs	1	
22	328019	Time relay	ST6PA-5S/AC24V	Pcs	1	
23	328020	Time relay seat	PYF-08A	Pcs	1	

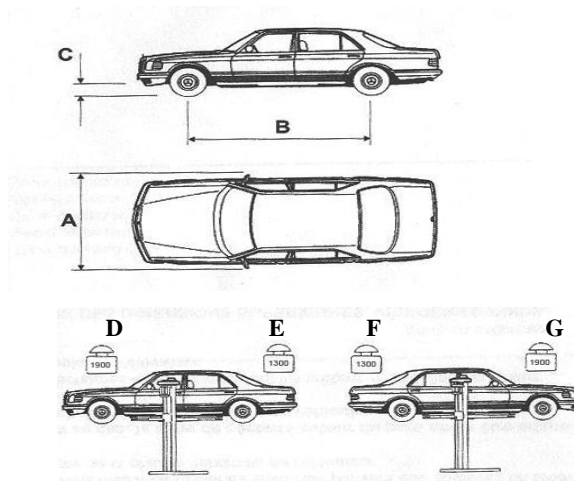
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Spare parts list---lift part

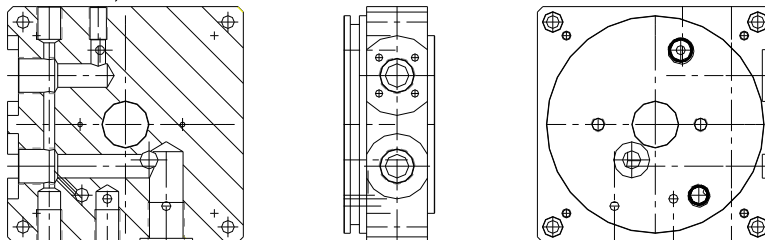
S/N	DRAWING#	DESCRIPTION	Q'TY	MATERIAL	REMARK
012	JA4000T-C-A1-B1	Down wheel	1	45#	
013	JA4000T-C -A11	Height adapter	4	Welding piece	130MM
016	JA4000T-C -A13	Safety plate	4	45#	
017	JA4000T-C -A17	Positioning block	4	Q235A	
020	JA4000T-C -A14	Electromagnet	4	Component	
103	JA4000T-C -A3-B1	Up wheel	2	45#	
815	JA6214F-A3-B5	Spring	4	Standard piece	
816	JA6214F-A3-B3	Teeth block	4	Q235A	
223	JA4000T-C -A7-B10	Door-opening protection	2	Rubber	
224	JA4000T-C -A7-B1	Sliding block	16	Nylon 1010	
909	JA4000T-C -A7-B2	Rubber pad	4	Rubber	
911	JA4000T-C -A7-B4-C4	Rubber pad	4	Rubber	
921	JA3214F-A4-B3	Teeth block	4	Q235A	
401	JA4000T-C -A4-B2	Oil hose	1	Component	2880mm
402	JA4000T-C -A5-B10	Short tie-in	1	35#	With anti-surge valve
403	JA4000T-C -A5-B-4	Assistant cylinder	1	Component	
409	JA4000T-C -A5-B3	Chain wheel	2	45#	
417	JA4000T-C -A5-B6	Power unit	1	Component	
420	JA4000T-C -A5-B5	Main cylinder	1	Component	
421	JA4000T-C -A4-B1	Main oil hose	1	Component	2555mm
422	JA6214-A5-B4	Long tie-in	1	Component	With anti-surge valve
603	JA4000T-C -A1-B5	Chain protection	2	Q235A	2700

Annex8, Size and weight requirement for the vehicle

Model No.	A (mm)	B (mm)	C (mm)	D (T)	E (T)	F (T)	G (T)
JA4000T	2400	2900	100	2.2	1.8	1.8	2.2



Valve board diagram



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EC Declaration of Conformity (informative)

In accordance with EN ISO 17050-1:2010

We (name of applicant) Jema Autolifte A/S
of (address of applicant) Industrihegnet 2, 4030 Tune, Denmark
hereby declare that the equipment submitted for Type Approval is in conformity with the requirements of following EU Directives:

2006/42/EC The Machinery Directive

We hereby declare that:

Equipment Two Post Lift
Model number JA4000T, JA4200T-C
Serial Number JA4200T-C(2020100302)

is in conformity with the applicable requirements of the following documents

Ref. No.	Title	Edition/date
2006/42/EC	Essential health and safety requirements relating to the design and construction of machinery	Annex I
EN 60204-1	Safety of machinery - Electrical equipment of machines -- Part 1: General requirements	2018
EN 1493	Vehicle lifts	2010

The machine has been the subject of a type examination by CTI-CEM International Ltd (Notified Body Number 2845) & granted Type Examination Certificate number: C-20-0216-21-02-A

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the following Directive(s):

Signed by:

Full Name: Kasper
Title: Director
Location: Tune, Denmark
Date: 16, Feb, 2021



Document ref. No.
F-20-0216-21-02-A

The technical documentation only for the machinery certified to the Test Standards as required by the Machinery Directive, is available from:

Name: CTI-CEM International Ltd
Address: Unit 200 Greenogue Business Park, Grants Lane, Rathcoole, Co. Dublin, Ireland