

Original



JA3200T-E

Lifting capacity 3200 kg.

Euroline

2 Post "Baseframe" lift

Installation, operation and maintenance manual





Read this entire manual carefully and completely before installation or operation of the lift. Reservations are made for printing, writing and spelling errors in this manual.

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1. IMPORTANT SAFETY INSTRUCTIONS.

1.1 Important notices.

Jema Autolifte A/S provides the user with a 1 year warranty on the lift, if there is something wrong with the lift in service conditions, we will repair or replace the product in accordance with the user's requirements. Jema Autolifte A/S assumes no responsibility for incorrect installation and operation, overload operation, improper concrete pad (not conforming to the manual), normal mechanical wear and inadequate maintenance. The warranty will be performed based on the type and serial number of the equipment. Therefore, those obtainable by the users to the manufacturer when this demand.

This 2-post lift is specially designed to lift vehicles weighing less than its maximum lifting capacity. It is not allowed to use it for other purposes. If this is not respected, we will not assume liability to injury, accidental injury or damage to the lift. Read this manual carefully before operating lift. This allows the person or property damage

Without our professional advice. it is not permitted to make changes in mechanics or control unit.

We recommend getting a proffessionel installer to mount and security approve lifts. Before starting.

1.2 Qualified personnel.

- 1.2.1 Only these qualified staff, who have been properly trained, can operate the lift.
- 1.2.2 Electrical installation shall comply with local regulations and a qualified electrician must complete the connection.
- 1.2.3 People who are not trained are not 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 Outdoor, sandblasting, undercoating and other environments that differ from general immortal auto mechanic tasks.
- 1.3.4 Keep hands and feet away from any moving parts. Keep feet clear of the lift when lowering.
- 1.3.5 Only qualified people, who have been properly trained, can operate the lift.
- 1.3.6 Do not wear unfit clothes such as large clothes with flounces, tirs, etc, which could be caught by moving parts of the lift.
- 1.3.7 To prevent evitable incidents, surrounding areas of the lift must be clean and tidy.
- 1.3.8 The lift is simply designed to lift the entire vehicles, witch has it's maximum weight within the lifting capacity.
- 1.3.9 Always insure the safety proberly managed before any attempt to work near or under the vehicle.
- 1.3.10 Make sure to place the lifting pads to the positions as suggested by vehicle manufactures and when gradually lift the vehicle to the desired height, operators should be certain that the vehicle will not slant, roll-over or slide in lifting process.
- 1.3.11 Check at any time the parts on 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.
- 1.3.12 Lower the lift to its lowest position and do remember to cut off the power source when service finishes.
- 1.3.13 Do not modify any parts of the lift without manufacturer's advice.
- 1.3.14 If the lift is going to be unused for a long time, users are required to: Disconnect the power source and lubricate the moving parts with the correct lubrication.

Note: To protect the environment, any share disposed of according to current regulations.

1.4 Notice of environment and condition.

In general, this auto lift to be installed on the following terms:

1.4.1 Supply voltage: 0.9-1.1 nominal supply voltage.

1.4.2 Source frequency: 0.99 to 1.01 nominal frequency.

1.4.3 Ambient temperature: 5 ° C - 40 ° C

1.4.4 Height: must be at altitudes of up to 1000 m above sea level.

1.4.5 Humidity: Not to exceed 50% at 40 ° C

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

1.4.7 Avoid exposure to direct sunlight or heat rays that can alter the environmental temp.

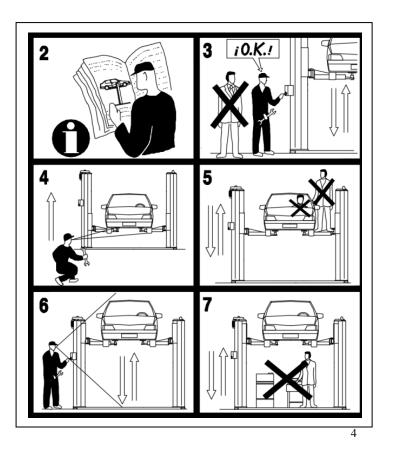
1.4.8 Avoid exposure to abnormal vibrations.

1.4.9 Electrical equipment must withstand the effects of transport and storage temperature within a range

of -10 ° C to 55 ° C and for short periods of max. +60 ° C - no more than 24 hours.

1.5 Warning signs.

All safety warning signs attached on the machine are for the purpose of drawing the user's attention to safety operation. The labels must be kept clean and need to be replaced when they are worn-out or fallen off. Read the explanations of the labels carefully and try to memorize them.



1.READ AND UNDERSTAND all safety warning procedures before operating lift.

2. KEEP HANDS AND FEET CLEAR. Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.

3. KEEP WORK AREA CLEAN. Cluttered work areas invite injuries

4. Consider work area environment. Do not expose equipment to rain. DO NOT use in damp or wet locations. Keep area well lighted.

5. ONLY TRAINED OPERATORS should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel com in contact with, or operate lift.

6. USE LIFT CORRECTLY. Use lift in the proper manner. Never use lifting adapters other than what is approved by the manufacturer.

7. DO NOT override self-closing lift controls.

8. REMAIN CLEAR of lift when raising or lowering vehicle.

9. CLEAR AREA if vehicle is in danger of falling.

10. ALWAYS INSURE that the safeties are engaged before any attempt is made to work on or near vehicle.

11. DRESS PROPERLY. Non-skid steel-toe footwear is recommended when operating lift.

12. GUARD AGAINST ELECTRIC SHOCK. This lift must be grounded while in use to protect the operator from electric shock. Never connect the green power cord wire to a live terminal. This is for ground only.

13. DANGER! The power unit used on this lift contains high voltage. Disconnect power at the receptacle before performing any electrical repairs. Secure plug so that it cannot be accidentally plugged in during service.

14. WARNING! RISK OF EXPLOSION. This equipment has internal arcing or sparking parts which should not be exposed to flammable vapours. This machine should not be located in a recessed area or below floor level.

15. MAINTAIN WITH CARE. Keep lift clean for better and safer performance. Follow manual for proper lubrication and maintenance

instructions. Keep control handles and/or buttons dry, clean and free from grease and oil.

16. STAY ALERT. Watch what you are doing. Use common sense. Be aware.

17. CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use lift if any component is broken or damaged.

18. NEVER remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.

1.6 Sound Level.

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

1.7 Training.

Only these qualified people, who have 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.

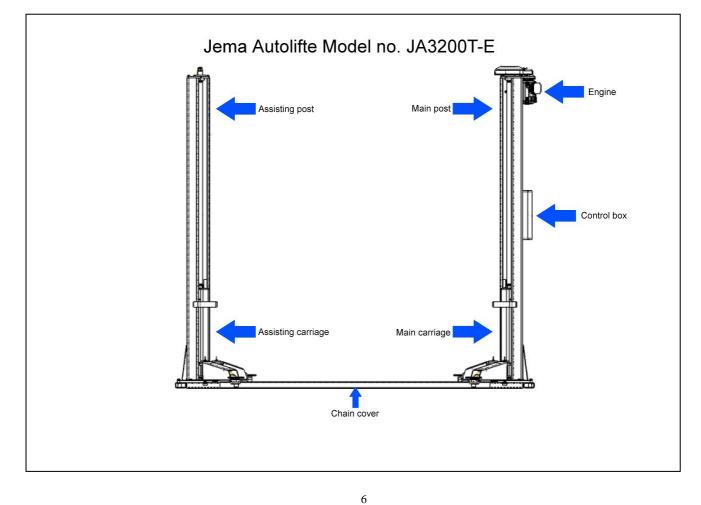
2.1 General descriptions.

This baseframe two posts lift consists among other things of bars, sleds, lifting arms, spindles and motor, control box, console, etc. The lift runs with spindle and motor. The engines are running by pressing the one of two buttons. It runs around the spindle and the main nut in sleds lift these up and down depending on what way the spindle drive. In the thread nuts in the slides form part of the whole lifting mechanism, so the event of a power failure it would not be possible to have the arms / the slides to run down, electric. Without power you must remove the topprotection and turning the large pulley manually so lift / vehicle goes back down.

2.2 Technical data.

Model	Lifting capacity	Lifting time	Lifting height	Height	Width	Width between posts	Power supply	Noise	Weight
JA3200T-E	3200KG	60 Sec	2000mm	3035mm	3350mm	2640mm	380V/420V, three phase	<75dB	620Kg

2.3 Construction of the lift



3. Before installation.

!!! We recommend getting a professional installer to mount the lift. !!!

3.1 Preparations before installation.

3.1.1 Tools and equipments needed.

- ✓ Appropriate lifting equipment
- ✓ Rotary Hammer Drill with 16 mm. drill bit.
- ✓ Chalk and tape measure, magnetic plumb.
- ✓ Sockets and a set of open wrenches, a set of inside hex wrenches ,cross and straight screw drivers.
- ✓ Hammer 4 pounds, sharp nose pliers, oil funnel.

3.1.2 List for parts checking

Unfold the package and check if any parts missed. Checklist is within the packing - Do not hesitate to contact us in case any parts missed, but if you do not contact us and insist installing upon the lack of some parts, Jema Autolifte 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 lift should be fixed on a smooth and solid concrete ground with its strength more than 3000psi, tolerance of flatness less than 5 mm. and 180 to 200 mm. armed concrete thickness. In addition, newly built concrete ground must undergo more than 28days' hardening.

3.2 Precautions for installation.

3.2.1 Make sure the two posts stand paralleled and are vertical to the ground. No slanting.

3.2.2 All bolts, screws,nuts. Ect. should be firmly fastened.

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

4. Installation

Move the whole unit to desired installation spot with a forklift. (DO NOT MOVE THE LIFT ON THE CARAIGES, SINCE IT CAN DEFORM THE SPINDLES!)

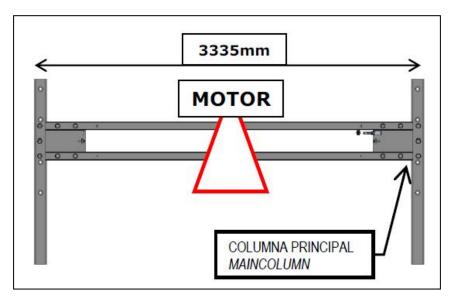
4.1 Installation instructions.

<u>Step 1:</u> Remove the packing, engines, arms, tops and accessories. Read and understand this manual thoroughly before the next step.

Step 2: Rise of the two columns up and place them vertically with a distance of 3335mm.

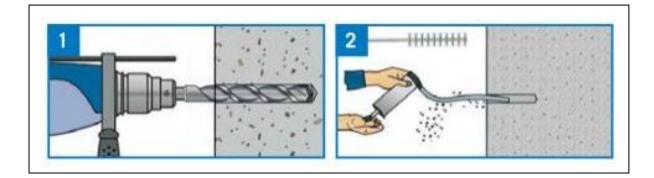
(Measured on the outside of the base plate on the lift leg). (See image T.2 on the next page)

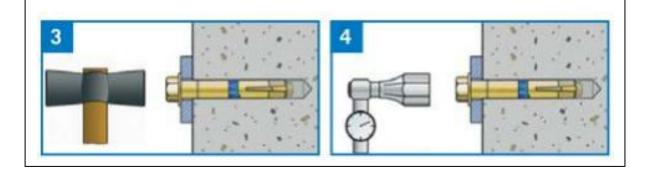
Draw if possible a sketch of the base plate with chalk on the floor and determine the exact placement of the columns.



Step 3:

- 1. Drill holes in the floor to the Expansion bolts with a drillhammer. Be sure that the holes are drilled vertically into the concrete floor.
- 2. After the holes are drilled (see picture 1), remove dirt and dust from drilling the holes. Make sure that the columns are where drawn with chalk.
- Expansion bolts knocked down, N.B. Do not tighten yet (see picture 2), bars soldered out of the enclosed sims. (See picture 3)
- 4. Expansion bolts tightened with a torque wrench (12 kg. / 120 Nm.) After Expansion bolts been tightened, check that the pillars are still plumb.



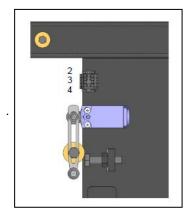


Step 4:

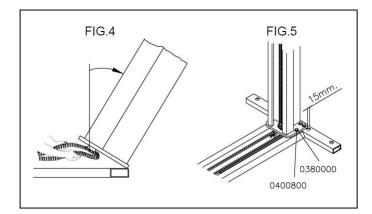
Post and electric cable assembly.

Fit the posts to the ends of the base, placing the drive post on the side where the chain-breakage safety stop is mounted. Please take care when the positioning the columns not to pinch the electrical cabling with the column base, as the cabling may be damaged or cut

1/ Main Post: Pass the electric cables through the cable conduit and connect to the n*1 and n*3.



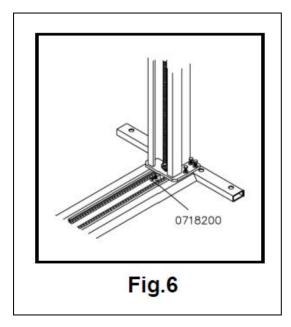
2/ Before bolting down the main post, tip it to one sie and fit the chain on the pinion (Fig. 4) Bolt the drive post to the base using bolts and washers, tightening them to a torque of 24m. kp (240 Nm , 180 lbf ft)



Before mounting the chain on the assisting post, ensure that the two carriages are at the same level (Height). If not, adjust the height using the nuts on the top of the column.

3/ Repeat the same operations with the main post but do not tighten the bolts

4/ Tighten the chain using the bolt provided for this purpose on the main post side (Fig. 6) Give the chain the just tightening not permitting to act the chain-breakage safety stop.





An excessive tautness of the chain can originate failures and breakdowns in the lift

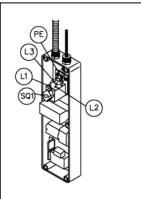
5/ Bolt the main post to the base using bolts and washers M16 tightening them to a torque of 24 m Kp (240 Nm – 180 lbf ft) Now connect the electric cables to each other using the connectors and connect the electric cable to the end of the chainbreakage safety device using terminal no* 2 and no* 4.

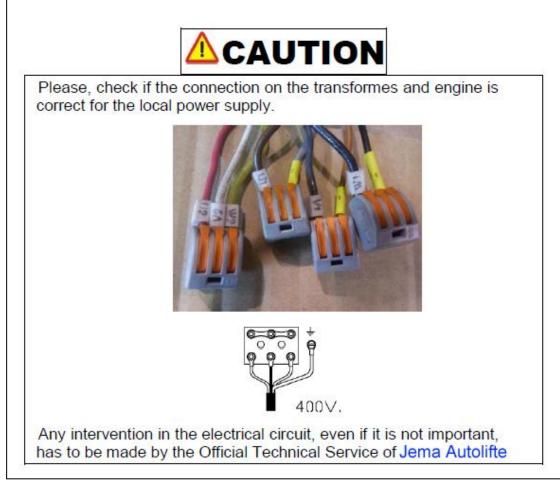
Connection to 3 Phase electrical supply

Before making any electrical connection please check the electrical supply voltage is the same as the lift voltage menioned in the lift specifications (380/400V)

Electrical cable A 4 x 2.5 mm2 multicore cable (3F + PE) is recommended. Follow the indications on the electrical diagram.

Connect the service cable to terminals L1, L2 and L3 on switch SQ1 inside the control box. Connect the earth wire to the screw marked PE (Fig. 8).

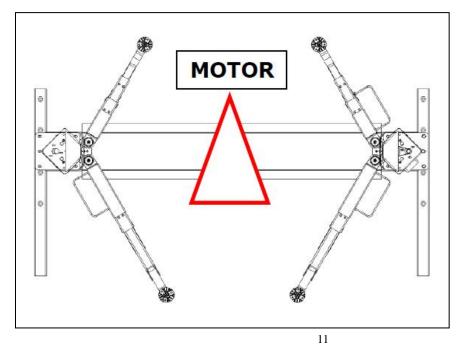




IMPORTANT : The use of protective fuses is recommended on the main supply line

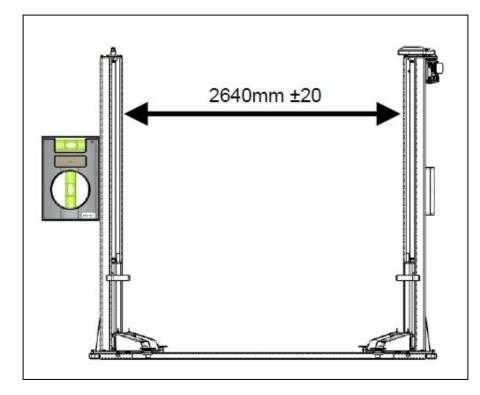
LIFTING ARM ASSEMBLY:

Mount the lifting arms on the carriages, according to the model shown.



Leveling the columns

One the lift is fixed on the floor, check the leveling and distances between the columns. The columns should be slightly splayed open at the top, with a maximum top to buttom difference of 20mm.



6/ Operating test

Check carefully to ensure that electrical connections have been made properly. This is done by pressing the "UP" Button momentarily.

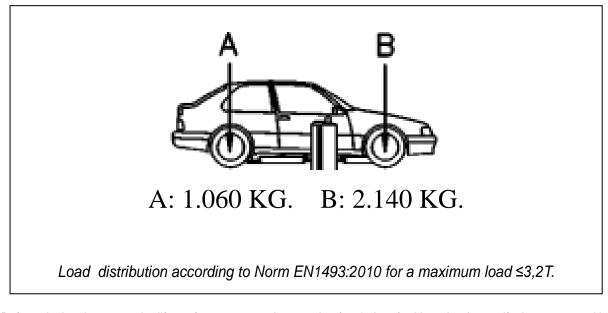
If the carriage goes up, the connections has been made properly. If the carriage goes down, a wrong connection has been made. Because the lift is 3-phase two phases should be interchanged.



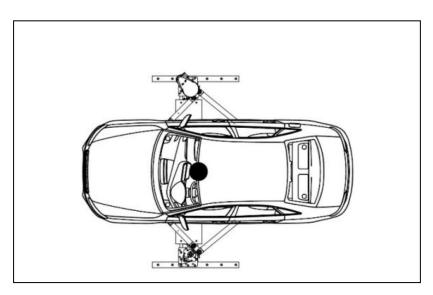
Please take care to press the "UP" Button and do it only for a few seconds when the performing test is done, because if the connections have not been made properly the carriage may descend to its lowest position, activating the safety stop system and locking the lift in place.

If this happens, the carriages must be raised approx. 15cm by turning the nut on the upper parts of the main post spindel with a spanner. Before this is done please make sure the main switch is turned off. Manually check that the arm locking devices operate correctly at different heights.

Step 7: Operating



Before placing the car on the lift, perform one complete service (up & down) without load to verify that upper and lower limit switches are working properly and lift runs smoothly. When placing the car on the lift, ensure that the vehicle weight is distributed as centrally as possible and that the pads are placed at the lifting points recommended by the vehicle manufacturer. Because it is an asymmetric lift, ensure that the heaviest part of the vehicle (engine) is placed on the short lifting arms end.



Before lifting the vehicle, check that the lifting arms are locked. When the car is in position, pushing the up button we will Lift the car until the button is released or until the upper limit switch is activated when maximum height is reached. Once vehicle is just lifted from the floor, stop the lifting and verify that vehicle lifting points rest on pads in a safe manner.

Only use the lifting points recommended by the vehicle's manufacturer when the down button is pressed, the lift descends to the desired height. If the button is not released, the lower limit switch is activated when the lowest point is reached and stopping the lift. When the carriage arrive at 12cm from the lowest position the lift stops and sound a safety signal, then release and pressed the down button and the lift full down.

4.2 To be checked after installation.

N0.	Check	ok	no
1	Stands columns vertically?		
2	Are arms mounted securely?		
3	Is Bottom Stop, top stop, safety wire contact adjusted?		
4	Is the wiring connectors connected correctly?		
5	Is the rest of the joints tightened correctly?		
6	Are all places that need lubrication, lubricated?		

5. Operation instructions.

5.1 Operating Rules.

- 5.1.1 The lift can not lift or lower a vehicle whose center of gravity is not located centrally between the lifting arms. Otherwise, neither Jema AutoLifte A/S or our dealers, be held responsible for accidents.
- 5.1.2 The operator and other persons involved should be in a safe distance during lifting or lowering processes.
- 5.1.3 When the vehicle is lifted to working height, the user must make sure that, if present, is at a safe distance to the lift, to prevent the lift accidentally lowered.

5.2 Description of the control box.

Description	Function
Monitor	Displays voltage connection etc.
UP button	Raise the lift.
DOWN button	Lift lowered.
Main switch	Turn on or off

5.3 Operating Instructions.

To raise up the lift.

- 1. Make sure you have read and understood the manual before operating lift.
- 2. Park the vehicle between the two colums.
- 3. Adjust the arms to suit the designated lifting points on the vehicle. Make sure that the vehicle's center of gravity is located in the center of the lift.
- 4. Press "UP" button on the control box until the pads on the arms touching the correct locations on the vehicle.
- 5. Continue to raise the vehicle until it is slightly separated from the floor. Check its stability again.
- 6. Raise the vehicle to the desired height. Check stability. sure, if present, is at a safe distance to the lift, and then perform maintenance or repairs under the vehicle.

Lowering the lift.

- 1. Press "DOWN"- button.
- 2. After the arms are lowered to their lowest position, turn the away from the vehicle and all obstacles removed.
- 3. Drive the vehicle away from the lift.

5.4 Emergency lowering in case of power failure.

1. Remove the hood on column.

2. Turn by hand on both sides so the carriages slowly is lowering. Run any of both sides simultaneously so that the weight is constant and at the risk of the vehicle falling off the lift.

6. Troubleshooting.

NOTE: If the problem can not be resolved locally, please do not hesitate to contact us for help. We offer our service as quickly as possible. To quickly solve a problem, we will provide as much information as possible, possibly photos of problem.

PROBLEM	CAUSE	CORRECTIVE		
	1			
	a) The lift has encountered an	a) Raise the lift manually a few centimetrers on the top		
	obstacle during operation.	of the spindle and remove the obstacle.		
		b) If the chain is slackening, the chain can be tensed		
While in		using the bolts for each post provided for that purpose		
operation, the		at each end of the base.		
lift stops and				
will not move	b) Excessive slackening	The post anchoring bolts must first be slackened		
either up or				
down		Once the chain has been tightened to a torque of 0,75		
		m kp the post anchoring bolts must be tightened again		
		c) To replace the broken chain, see the assembly		
	c) Broken Chain	instructions section.		
	d) Fuse F1, F2 or F3 has blown	d) Replace the faulty fuse		
When the lift	The top stop is broken or electric	Replace the top stop or check the electrical wires, if		
reaches the top	wires are not connected	they are connected correct		
it does not stop	correct.			

7. Maintenance.

Easy and inexpensive maintenance can ensure that your lift works optimal and safe. The following are requirements for normal maintenance. You can choose the frequency of routine maintenance according to the daily load on the lift.

7.1. Check daily before use

The user should perform daily checks. Daily inspection of the safety interlock system is very important. Discovery of defects before the lift starts up, you can save time and prevent accidents. Check that the expansion bolts are tight.

7.2. weekly check

- \cdot Check the flexibility of moving parts.
- · Check safetyparts mode.
- \cdot Check that the bolts that hold the bars are tight.

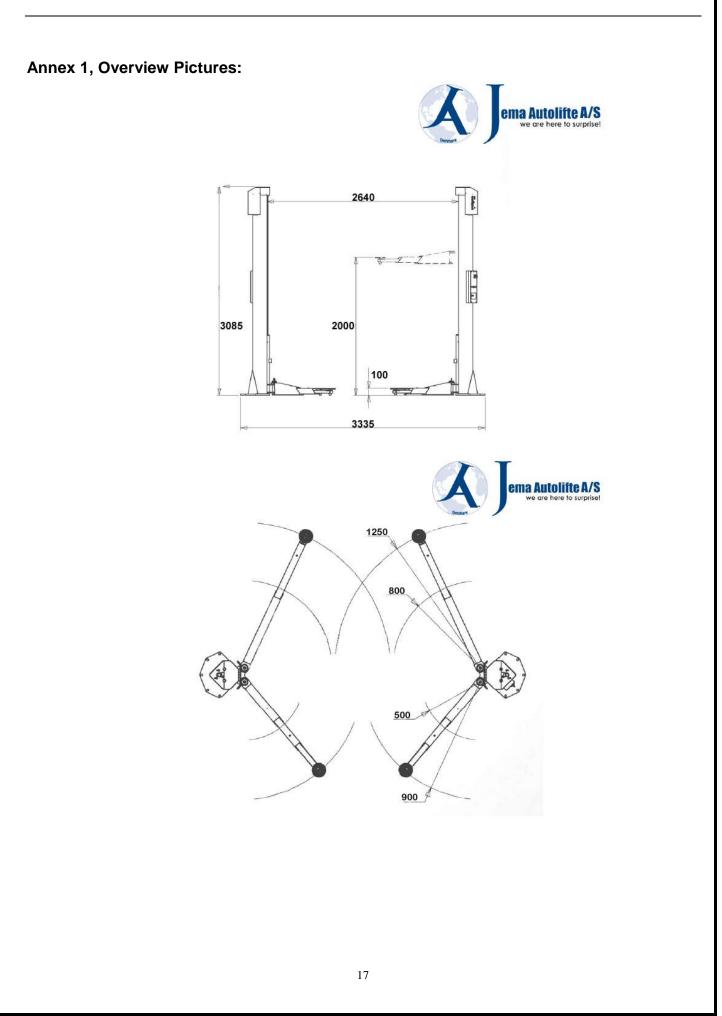
7.3. monthly check

 \cdot Check that the bolts that hold the bars are tight.

· Check for lubrication and wear on the spindle and nut, slide, arms and all related parts and replace worn parts with new ones

- if necessary for the functionality.
- \cdot Check safety steelwires for lubrication and wear.

If the user carefully follows the above requirements for maintenance, lift kept in good condition and accidents will largely be avoided.



Annex 2, CE certificate.

CE

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Hereby declares under its sole responsibility that the product

Description: 2 Post mechanical lift Model: JA3200T-E / 4EB1700 Serial no.:

fulfils all the relevant provisions of the following European Directives

2006/42/CE Machine Directive

2006/95/CE Low Voltage Equipment

and Harmonized Standards and technical specifications used in (where applicable)

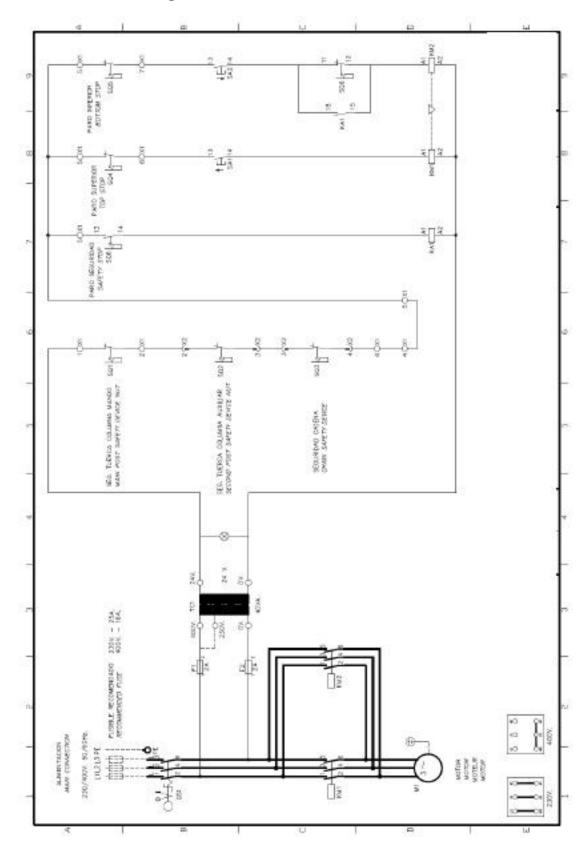
EN 1493:2011 VehicleLifts

EN 12100: 2012 Safety of machinery - General principles for design - Risk assessment and risk reduction.

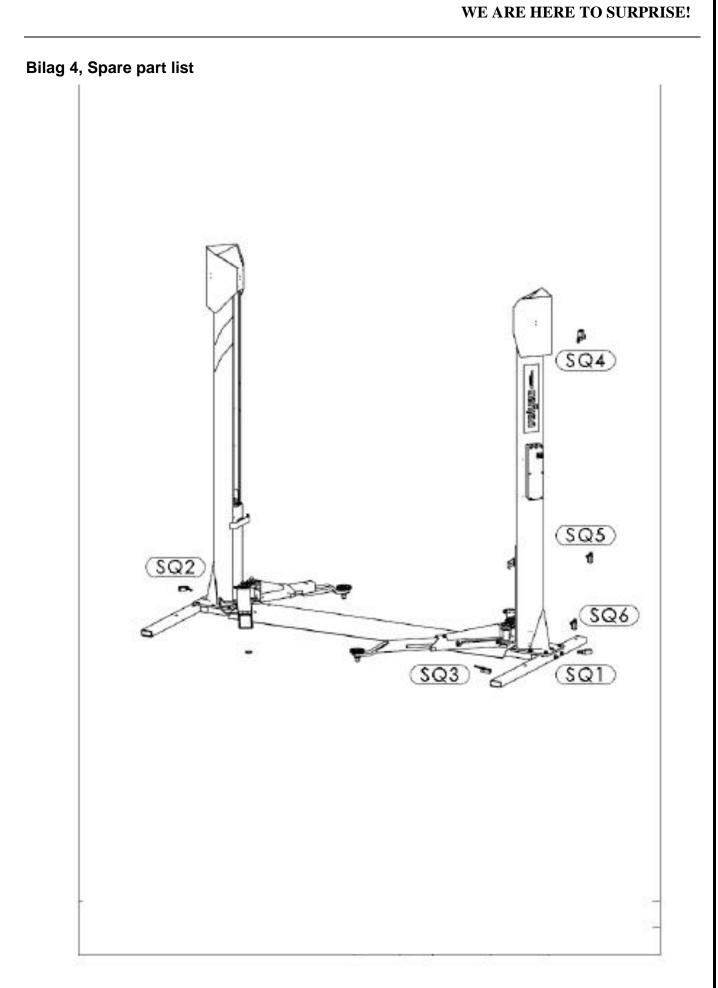
EN 60204 -1:2007 Safety of machinery. Electrical equipment of machines. General requirements

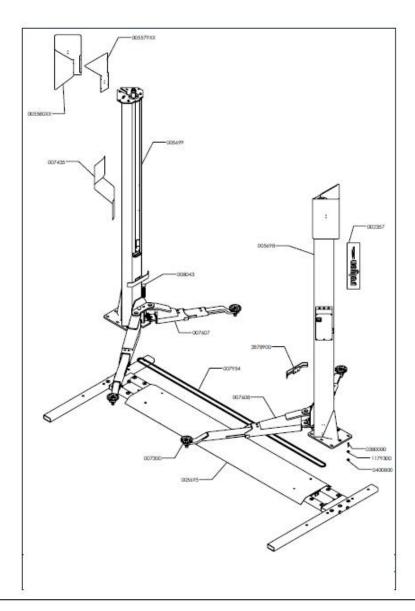
Firma/Signature:

Responsable:

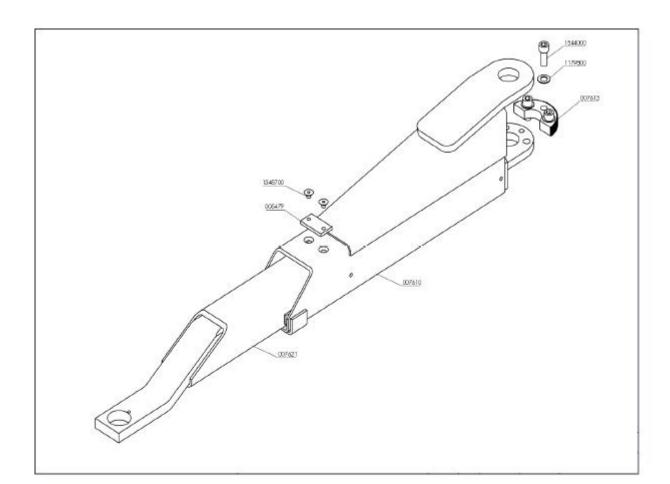


Annex 3, Electric wire diagram.

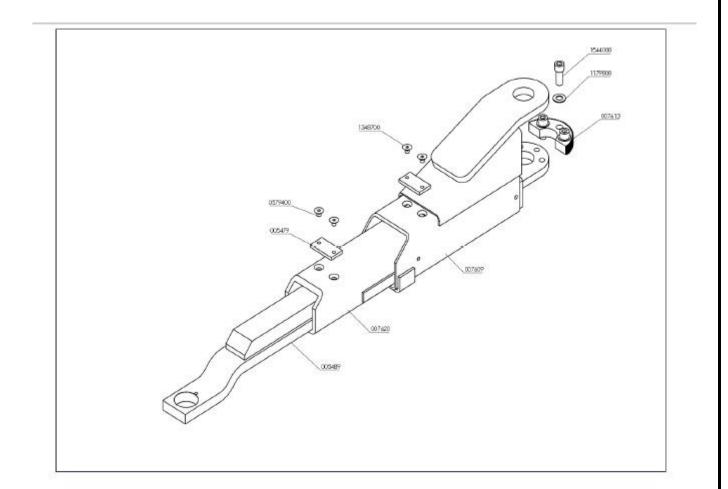




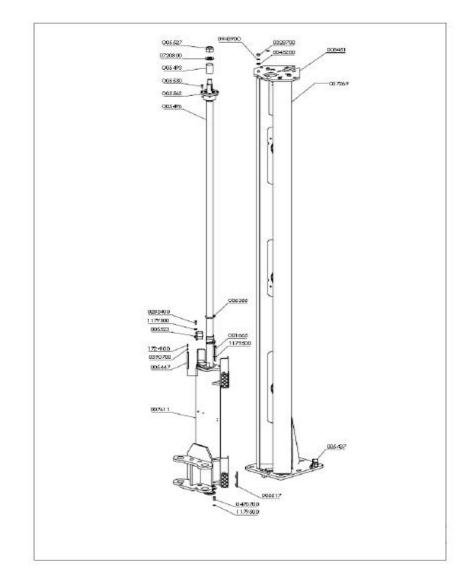
CODE	NAME	QTY
002149	4EB1700 INSTRUCCTIONS MANUAL	1
002357	690X150 VELVEN-IST STICKER 690X150	1
004048	2 COLUMNS MECHANIC INFORMATION STICKER	1
005579XX	COLUMN COVER	2
005580XX	MOTOR COVER	2
005695	2640 BASE	1
005698	MAIN COLUMN	1
005699	AUXILIAR COLUMN	1
007300	PAD SUPPLEMENT D120 RED	4
007435	1228X230 RAINBOW STICKER	1
007607	SHORT ARM GROUP	2
007608	LONG ARM GROUP	2
007954	ISO 1/2" 5626MM CHAIN	1
008043	LOCK ARM GROUP	4
2878900	DOORS PROTECTOR	2



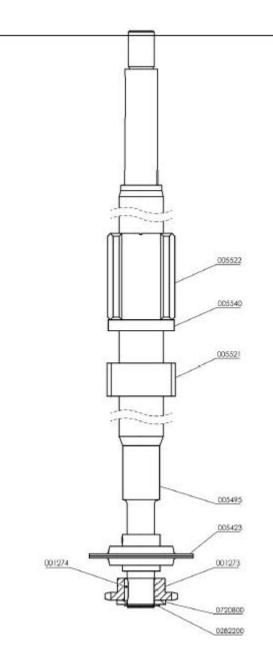
CODE	NAME	QTY
005479	STOP FLAT	1
007610	LONG ARM BODY	1
007613	LOCK DISC	1
007621	LONG EXTENSIBLE ARM	1
1179800	DIN137 B13 WAVESPRING WASHER	3
1348700	DIN7991 M8X1 COUNTERSUNK SCREW	2
1544000	912 M12X30- 8.8 SCREW DIN	3



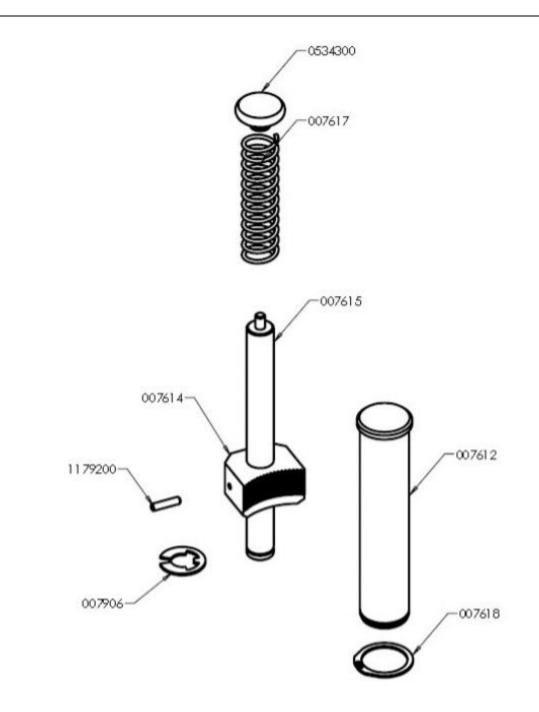
CODE	NAME	QTY
005479	STOP FLAT	2
005489	INTERIOR SHORT EXTENSIBLE ARM	1
007609	SHORT ARM BODY	1
007613	LOCK DISC	1
007620	MIDDLE SHORT EXTENSIBLE ARM	1
0579400	DIN 7991 M8X15-10.9 SCREW	2
1179800	DIN137 B13 WAVESPRING WASHER	3
1348700	DIN7991 M8X1 COUNTERSUNK SCREW	2
1544000	912 M12X30- 8.8 SCREW DIN	3



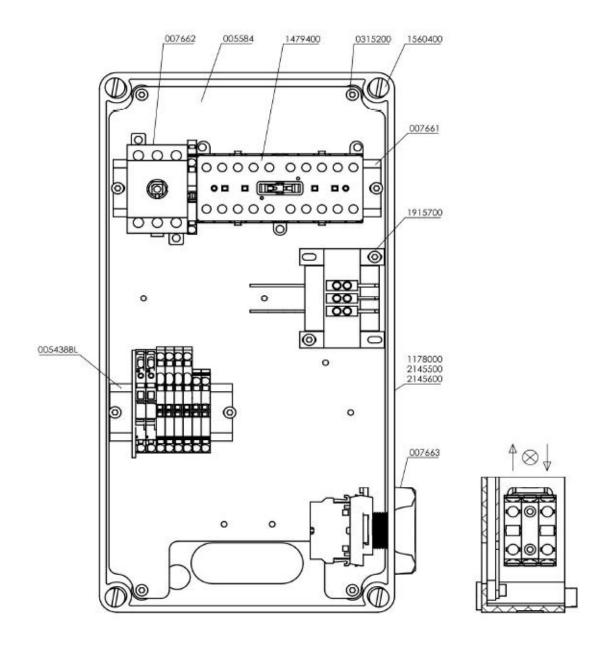
CODE	NAME	QTY
001655	DIN 933 M8X100 8.8 SCREW	2
0045200	DIN 125 D10 WASHER	2
005447	CONTROL WEAR WIRE	1
005493	31 X40X60 GASKET	1
005496	SPINDLE SET	1
005517	SLIDERS	8
005523	SPINDLE ADJUSTMENT	2
005562	BEARINGS SET	1
006355	Ø32-50 CLAMP	1
007269	COLUMN	1
007611	SLIDER CARRIAGE	1
008451	COLUMN COVER	1
0283400	DIN 912 M 8X10- 8.8 SCREW	1
0328700	DIN 934 M10 NUT	4
0390700	DIN 934 M 4 NUT	1
0470700	DIN 912 M8X16 - 8.8 SCREW	2
0720800	DIN 125 D24 WASHER	1
0943900	DIN137 A10,5 WAVESPRING WASHER	4
1179500	DIN137 B 8,4 WAVESPRING WASHER	6
1724100	DIN913 M 4X20 SCREW	1



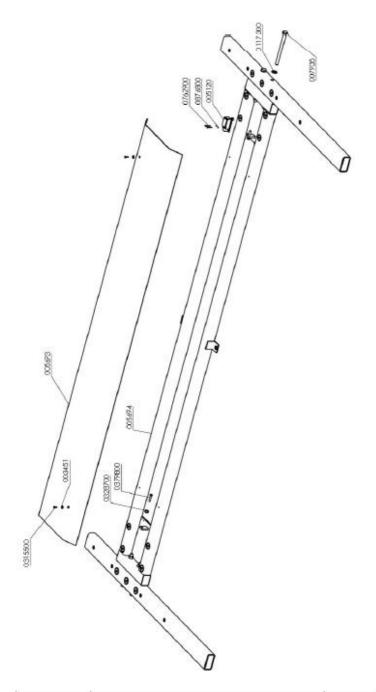
CODE	NAME	QTY
001273	SPROCKET WHEEL	1
001274	DIN 6885 A 8X7X20 PARALLEL KEY	1
005423	PFT25 BEARING	1
005495	SPINDLE	1
005521	SAFETY NUT	1
005522	MAIN NUT	1
005540	MAIN NUT SUPPORT	1
0282200	DIN471 E25 SAFETY RING	1
0720800	DIN 125 D24 WASHER	1



CODE	NAME	QTY
007612	ARM BOLT	1
007614	M1 LOCK FLAT	1
007615	LOCK WIRE	1
007617	LOCK SPRING	1
007618	DIN 471 E 40 SECURITY RING	1
007906	DIN6799 D19 SECURITY RING	1
0534300	M8 D40X26 KNOB	1
1179200	DIN913 M 6X25 SCREW	1



CODE	NAME	QTY
005438BL	X1 BLOCK SET	1
005584	CONTROL BASE	1
006832	TIMER RELAY	1
007661	DN35 160 MM RAIL	1
007662	3-PHASE SELECTOR C16	1
007663	UP/DOWN ARROW PUSHBUTTON	2
0315200	DIN 912 M4X8 - 8.8 SCREW	12
1178000	D2 0X940 MM CLOSING GASKET	1
1479400	24V CA 9A INC INVERSER	1
1560400	SCREW	6
1915700	24V 10VA DRIER TRANSFORMER	1
2145500	BOX COVER	1
2145600	CONTROL BOX CASE	1



CODE	NAME	QTY
003451	DIN440 D6 FLAT WASHER	2
005120	CHAIN SAFETY DEVICE	1
005693	BASE COVER	1
005694	2640 BASE	1
007935	DIN931 M16X200 SCREW	4
0117300	DIN125 D16 WASHER	4
0315500	DIN 933 M 6X 15- 8.8 SCREW	2
0328700	DIN 934 M10 NUT	2
0379800	DIN 933 M10X 45- 8.8 SCREW	2
0762900	DIN84 M4X SCREW	2
0876800	DIN137 ST4,3 WAVESPRING WASHER	2



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