

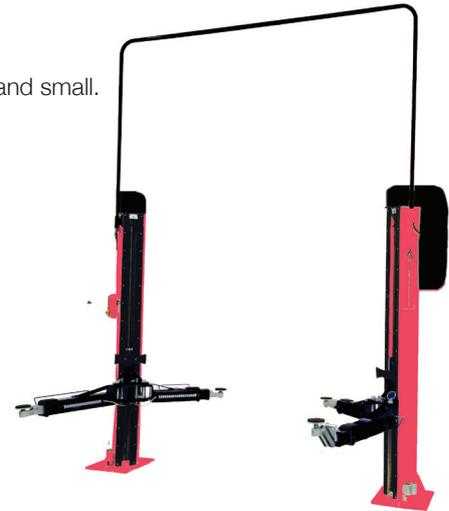
Description

The AA45CFS2P 4.5t electro-mechanical 2 post clear floor hoist from Alemlube Automotive has been developed with the paramount emphasis on operator safety in combination with state of the art technology and user benefits.

The lifting and lowering mechanism has a safety Interlock, eliminating the need to manually lock or unlock the safety device every time the operator uses the hoist, giving the operator peace of mind when working under the vehicle. Furthermore, the vehicle can be locked at any height and not in a predetermined position as is required by hydraulic type hoists.

The AA45CFS2P is operated via a user friendly digital information control box which also has the ability to send information in relation to service checks and maintenance as required. Unique to the AA45CFS2P Electro-mechanical hoist are LED lights inside the arms which automatically activate when the arms are positioned under the vehicle. The LED lights are incorporated into the quick-arms providing excellent under car illumination creating an even safer working environment. For further convenience the quick-arms and screw platforms are easily adjustable.

With an impressive maximum hoist height of 1950mm, the AA45CFS2P 4.5t Electro-mechanical 2 post clear floor hoist from Alemlube Automotive is sure to provide improved safety, user friendly features and productivity to automotive workshops large and small.



Specifications

Hoist capacity	4500Kg
Lifting time	35 Seconds
Lifting height	1950mm
Hoist height	4290mm
Width between posts	2930mm
Power supply	240V
Weight	950Kg

1. Important Safety Instructions

1.1 Important notices

Alemlube Automotive 4.5t clear floor two post hoist offers a two year quality warranty for the whole machine during which time any quality problem will be properly solved to the users satisfaction. However, we will not take any responsibility for consequences resulting from improper installation and operation, overload running or unqualified ground conditions.

This 2-post hoist is specially designed for hoisting motor vehicles that weigh within its outermost hoist capacity. Users are not allowed to use it for any other purposes. Otherwise, we, as well as our sales agency, will not bear any responsibility for accidents or damages of the hoist. Make sure to pay careful attention to the labeling on the hoist regarding capacity and never try to hoist cars beyond the weight capacity. Read this manual carefully before operating the machine so as to avoid economic loss or personnel casualty incurred by wrong operation. Without our professional advice, users are not permitted to make any modification to the control unit or mechanical unit.

1.2 Qualified Personnel

- 1.2.1 Only qualified staff, who have been properly trained can operate the hoist.
- 1.2.2 Electrical connections and work must be done by a competent electrician.
- 1.2.3 People who are not trained are not allowed in the hoisting area.

1.3 Danger Notices

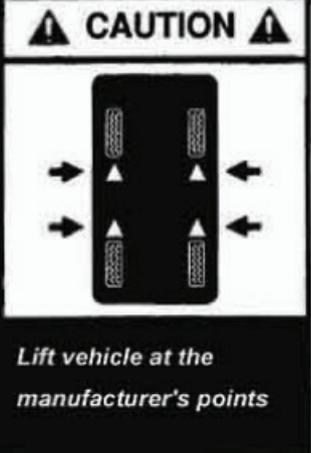
- 1.3.1 Do not install the hoist on an asphalt surface.
- 1.3.2 Read and understand all safety warnings before operating the hoist.
- 1.3.3 The hoist, if not specially designed to a customer's request, is not fit for outdoor use.
- 1.3.4 Keep hands and feet away from any moving parts. Keep feet clear of the hoist when lowering.
- 1.3.5 Only qualified people, who have been properly trained, can operate the hoist.
- 1.3.6 Do not wear loose fitting cloths that could be caught by moving parts of the hoist.
- 1.3.7 To prevent incidents, surrounding areas of the hoist must be clean and tidy.
- 1.3.8 The hoist is simply designed to hoist the entire vehicle, which has it's maximum weight within the hoisting capacity.
- 1.3.9 Always insure safety is properly managed before any attempt to work near or under the vehicle.
- 1.3.10 Make sure to place the hoisting pads to the positions as suggested by vehicle manufactures and then gradually hoist the vehicle to the desired height, operators should be certain that the vehicle will not slant, roll-over or slide in the lifting process.
- 1.3.11 Check at any time the parts on the hoist to ensure the agility of moving parts and the performance of synchronisation. Ensure regular maintenance and if any abnormalities occur, stop using the hoist immediately and contact Alemlube for help.
- 1.3.12 Lower the hoist 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 hoist without manufacturer's advice.
- 1.3.14 If the hoist is going to be unused for a long time, users are required to:
 - A. Disconnect the power source;
 - B. Lubricate the moving parts with the correct lubrication.

Warning Signs

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

 <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>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 extenders 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>Avoid excessive rocking of vehicle while on lift.</p>



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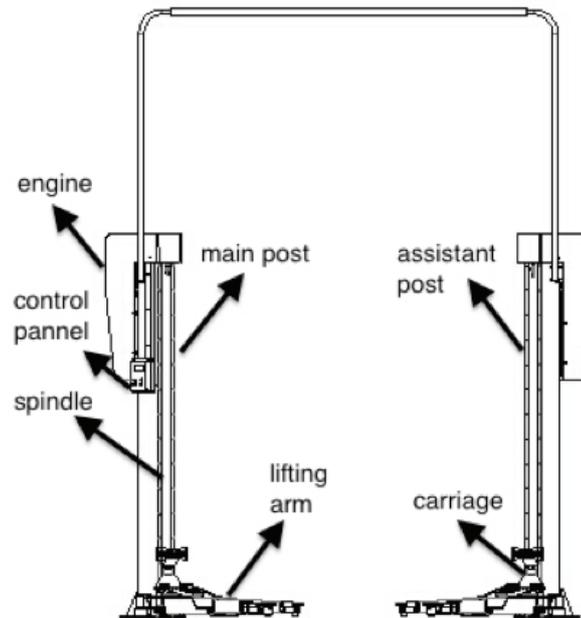
1.5 Sound Level

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

1.6 Training

Only qualified people, who have been properly trained, can operate the hoist. Alemlube Automotive are willing to provide professional training for the users when necessary.

2. Construction of the hoist



3. Installation instructions

3.1 Preparations before installation

3.1.1 Tools and equipments needed

- Appropriate hoisting equipment
- Rotary Hammer Drill with 16mm drill bit.
- Chalk and tape measure, magnetic plumb.
- Sockets and open wrenches, a set of inside hex wrenches, cross and straight screw drivers.
- Hammer, 4pounds, sharp nose pliers, Ø17, Ø19, Ø22 socket spanners.

3.1.2 List for parts checking

Unfold the package and check if any parts are missing. Do not hesitate to contact us in case any parts are missing.

If you do not contact us and insist on supplying missing parts, Alemlube Automotive 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 hoist should be fixed on smooth and solid concrete ground with its strength more than 3000psi, tolerance of flatness less than 5mm and 15 to 18 cm armed concrete thickness. In addition, new concrete ground must undergo more than 28 days 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 should be firmly fastened.
- 3.2.3 Do not place any vehicle on the hoist in the case of trial running.



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3. Installation instructions

3.3 Installation

Move the whole unit to desired installation position with a forklift.

DO NOT MOVE THE HOIST ON THE CARRIAGES, IT CAN DEFORM THE SPINDLES!

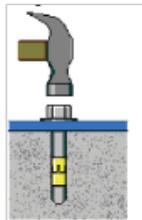
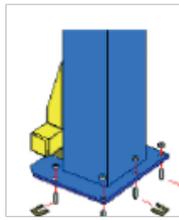
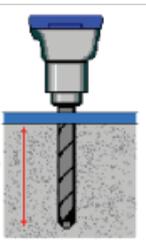
Step 1: Remove the packaging, take accessories out of the carton. Please read and understand this manual thoroughly before next step.

Step 2: Fix the standing position for the two posts and erect the main and assistant post, with a minimum width of 3110mm and maximum 3610mm. (Measured on the outside of the base plate).

1. Draw an outline of the base plate on the ground with chalk and confirm the position for the posts.

Step 3: Erect the posts, main post first and then the assistant post.

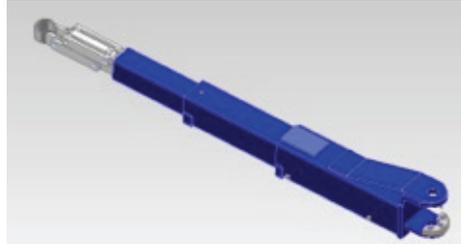
1. Drill anchor holes for each plug bolts on the ground with an electrical drill. Make sure to drill vertically.
2. After holes have been drilled, remove the debris and dust and confirm the posts stay upon the circle previously drawn by chalk.



Step 4: Open the engine cover and connect the wires to the hoist as per Annex 1.

Step 5: Grease the spindle and post.

Step 6: Assemble the foot protection to the arm.



Step 7: Mount the arm to the carriage.

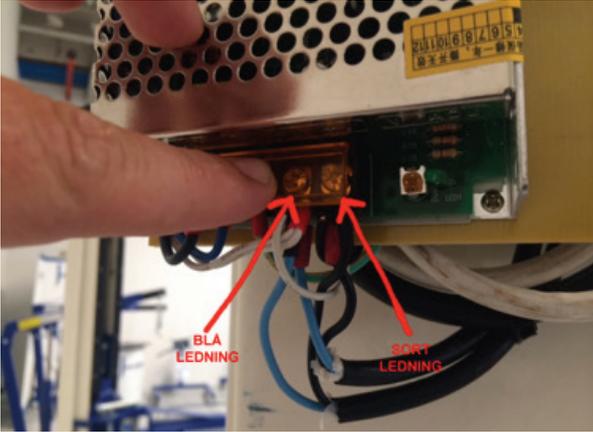
1. The 3-step arm in the front and 2-step arm in the back
2. Install the swing arms on the carriages with the drons (4 pcs.) and make sure the safety lock and safety teeth are well matched, so the arms are locked when rising the hoist.

Step 8: Connect the LED light to the terminal on the carriage.

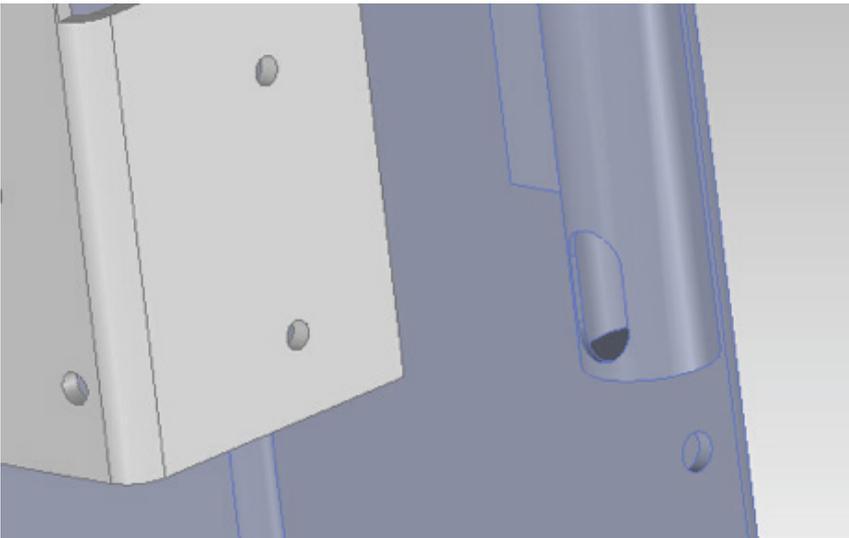


Step 9: Mount the top pipe.

1. Engine wire, control wire and light wire should go from the opening of assistant post to the opening of main post.
2. Gathering of the armlight on the assisting post, should be connected on no.1 and no.2 as shown on the picture.



3. The bended pipe should be placed into the pipe on each post.



3.4 Items to be checked after installation.

S/N	Check items	YES	NO
1	Are the posts vertical to the floor?	<input type="checkbox"/>	<input type="checkbox"/>
2	Are all hoisting arms well fixed?	<input type="checkbox"/>	<input type="checkbox"/>
3	Are electrical connections right?	<input type="checkbox"/>	<input type="checkbox"/>
4	Are the rest joints firmly screwed?	<input type="checkbox"/>	<input type="checkbox"/>
5	Are all items need lubricating added with grease?	<input type="checkbox"/>	<input type="checkbox"/>

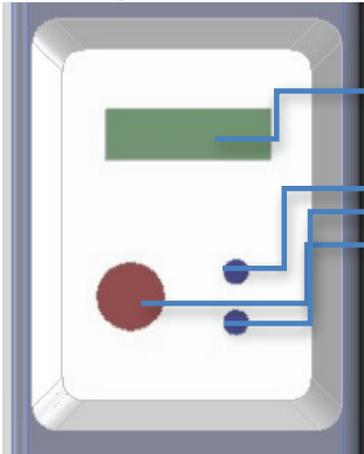


4. Operating instructions

4.1 Precautions

- 4.1.1 The machine shall not hoist or lower a vehicle if its center of gravity is not positioned midway of the swing arms. Otherwise, Alemlube Automotive as well as our dealers will not bear any responsibility for any consequence resulted thereby.
- 4.1.2 Operators and other personnel concerned should stand in a safe area during hoisting and lowering process.
- 4.1.3 When hoisting arms rise to the desired height, switch off the power at once to prevent any mal-operation done by unconcerned people.

4.2 Descriptions of control box



Description	Function
Screen	Show power connected etc
UP button	Raise the hoist
DOWN button	Lower the hoist
Power switch	Switch on or off

4.3 Operating Instructions

Raise the hoist

1. Make sure that you have read and understood the operation manual before operation.
2. Park the vehicle between two posts.
3. Adjust the hoisting arms until they reach the supporting positions of the vehicle and make sure the vehicles center of gravity is located in the center of four hoisting arms.
4. Switch on and press the "UP" button on the control box until pads of hoisting arms touched the prop-position of vehicle.
5. Keep on raising the vehicle to let it have a bit of clearance from the ground and check again its stability.
6. Raise the vehicle to the desired height, check that there are no people close to the hoist and then perform maintenance or repair work underneath.

Note: When hoist stops at the top limit position, make sure the hoist stops at the correct max. height. When the hoist is raised to max. height, it is now only possible to lower the hoist. To make sure the hoist does not get damaged. Press the DOWN button, and the hoist will go down.

Lower the hoist

1. Switch on.
2. Press the DOWN button to lower the hoist.
3. After the hoisting arms are lowed to the lowest position, pull them to the horizontal position and clear up all the obstacles.
4. Drive the vehicle away.
5. Push DOWN-button and lower hoist until the underside of the carriage reaches a height corresponding to approx. 300mm above floor. At this height the automatic anti-toe trap safety is activated and the lowering movement is stopped. The anti-toe trap safety is indicated by a series of beeps. Release the DOWN-button and reactive it immediately after which, the lowering movement will start again, until the hoist automatically stops in its lowest position.

Cancellation of automatic height limit switch

1. Lower the hoist until the automatic anti-toe signal is activated.
2. Cut off the main switch. Wait about 10 seconds.
3. Push the UP and DOWN buttons together, and keep them pushed while the main switch is on.
4. Release both buttons. Now the height limit switch cancel.
5. Finish.



5. Trouble Shooting

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

TROUBLE	CAUSE	SOLUTION
Abnormal noise	Abrasion exists on insider surface of the posts	Grease the inside of the post
	Trash in the post	Clear the trash
Motor does not run and will not rise	The motor is blown	Replace it
	The limit switch is damaged	Connect, adjust or replace the limit switch
Motor runs but will not rise	The motor is running reverse	Check the wire connection
LED light doesn't work	Wrong wiring	Switch the terminal

6. Maintenance

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

6.1. Daily checking items before operation

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

- Check whether plug bolts firmly screwed.

6.2. Weekly checking items

- Check the flexibility of moving parts.
- Check the working conditions of safety parts.
- Check whether plug bolts are firmly screwed.

6.3. Monthly checking items

- Check whether plug bolts are firmly screwed.
- Check the lubrication and abrasion circumstance of axial pins, carriages, hoisting arms and other related parts and replace in time with new ones if they failed to work well.
- Check the lubrication and abrasion circumstance of the safety steel cable.

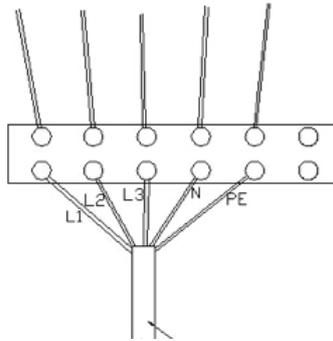
Note: The spindles and nuts are important parts. They must be carefully maintained. They must be kept absolutely clean and should be well lubricated. If ignored, there are safety risks on the hoist. When the distance between two nuts is reduced 1.5mm, the nut must be replaced.

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



7. ANNEX

Annex 1. Wiring instruction / Wiring for the main power



Wiring for control panel:

Connect the plug from the main post to the control panel below, where it says "MASTER".
Wire from the assistant post should be connected to the panel where it says "SLAVE".



Wiring for assistant engine:

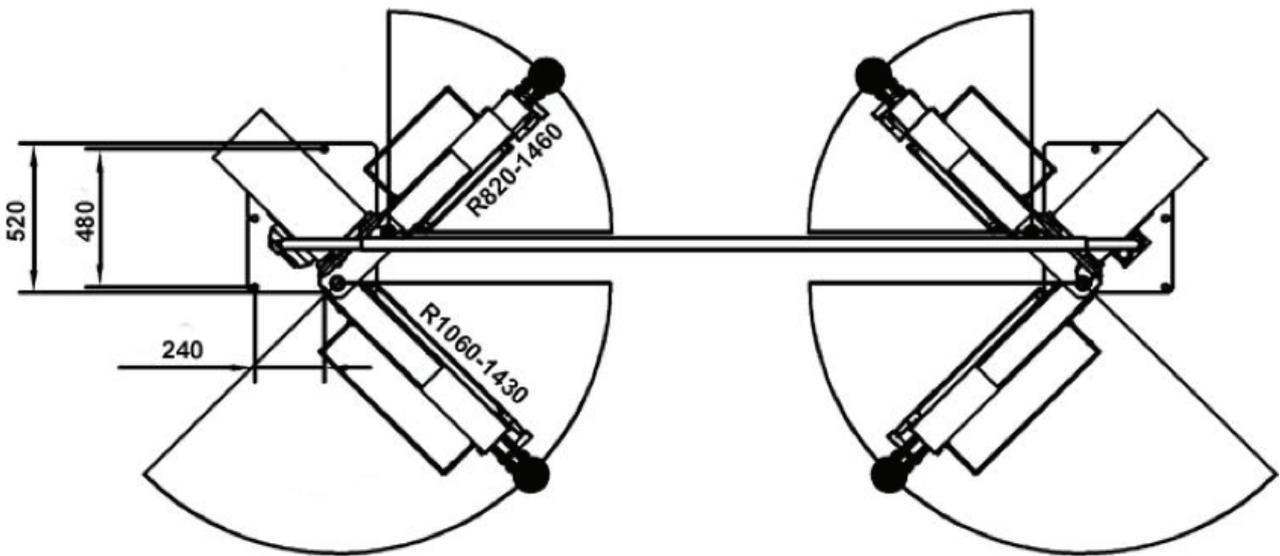
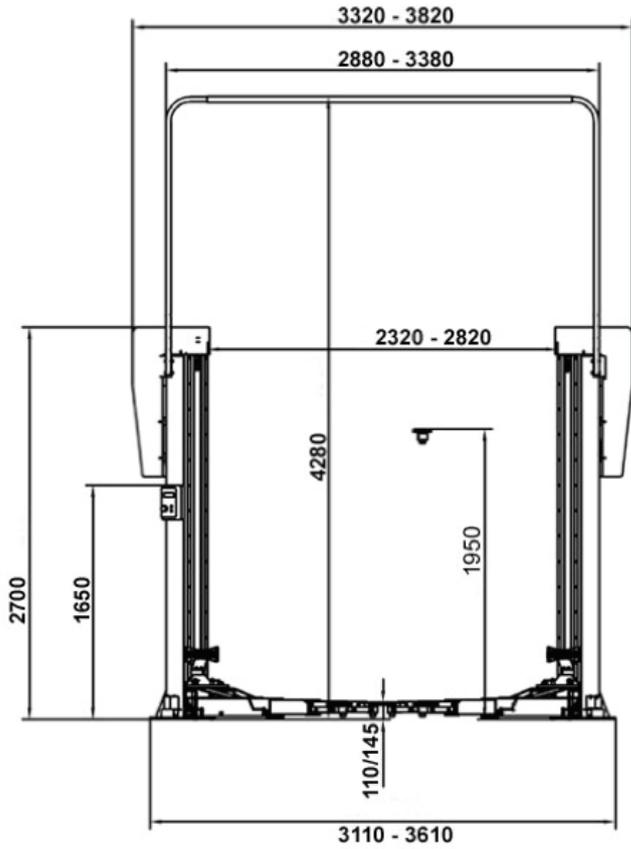
Connect the plug from the main post to the control panel below, where it says "MASTER".
Wire from the assistant post should be connected to the panel where it says "SLAVE".



Wire from the assistant engine



ANNEX 2 Overall Diagram

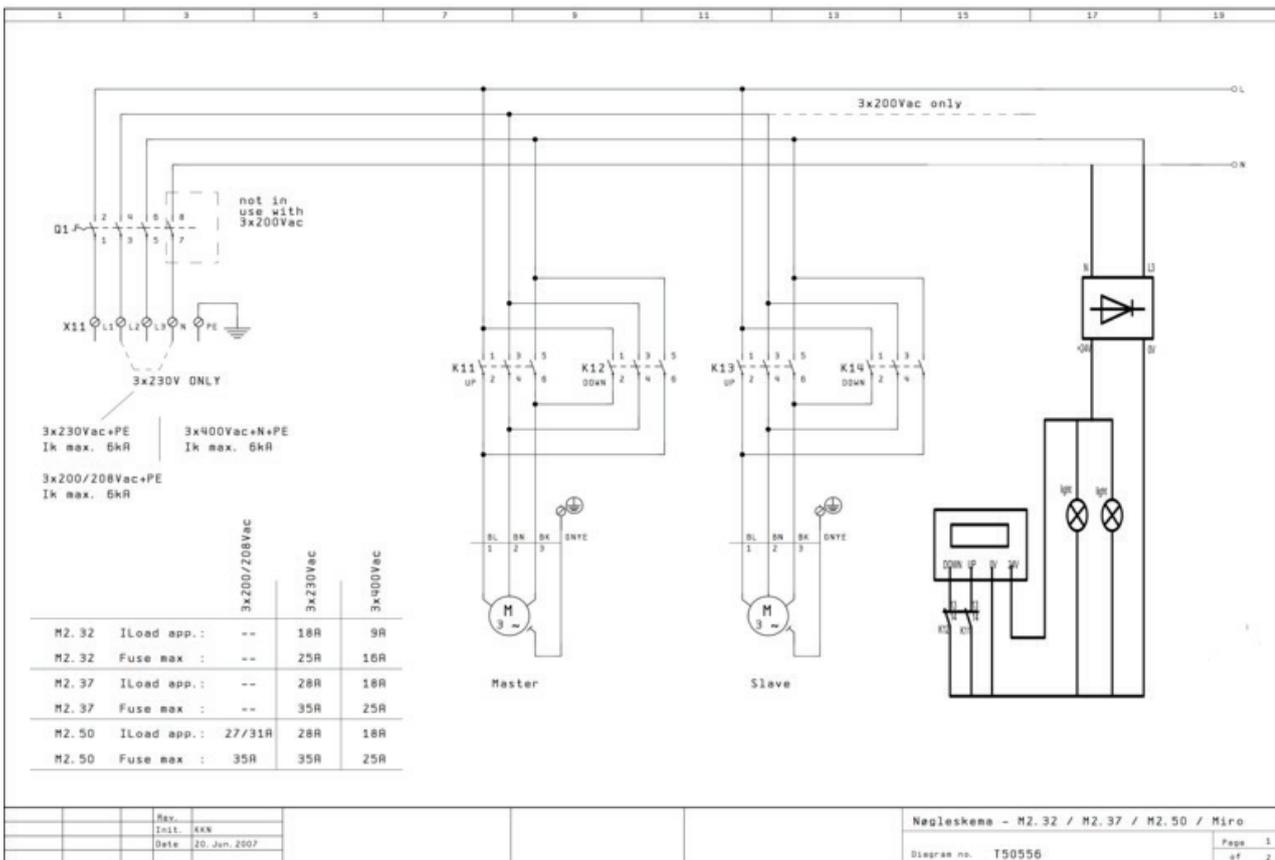


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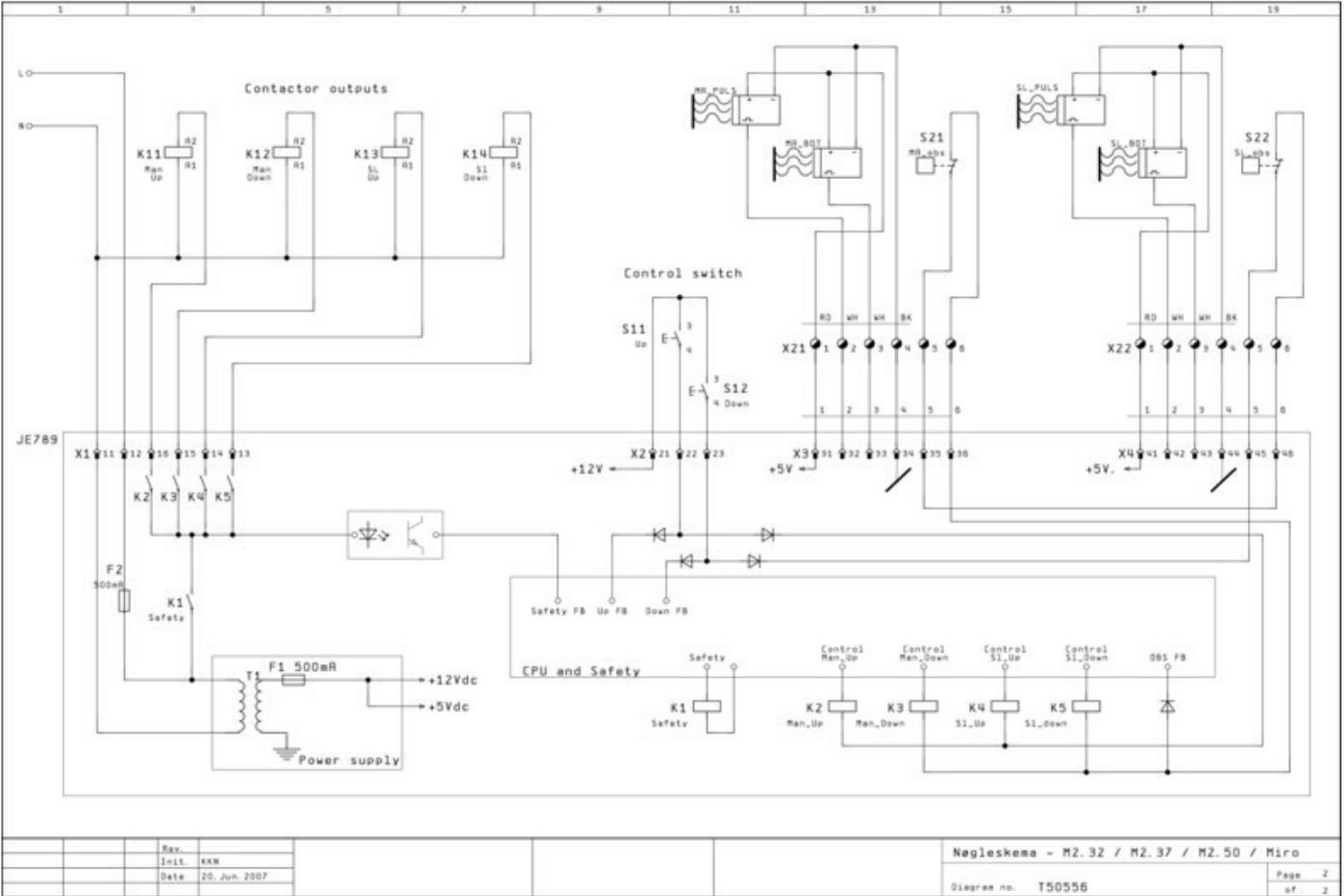
ANNEX 3 Packaging List of the Hoist

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
1	Main post and carriage	AA4500-100	Component	1
2	Assistant post and carriage	AA4500-200	Component	1
3	Long arm bracket	AA4500-004-000	Component	1 left and 1 right
4	Short arm bracket	AA4500-004-001	Component	1 left and 1 right
5	Packing frame	45-00		1
6	Long foot protector(in box)	AA4500-004-03-00		1
7	Short foot protector(in box)	AA4500-004-04-00		1
8	Screw (in box)	M8*12	Standard piece	8
9	Expansion bolt (in box)	M16*180	Standard piece	10
10	Height adapter (in box)	AA4200-013-00	Q235A	4
11	Cable pipe	AA4500-005-04-02	Q235A	1
12	Cable pipe	AA4500-005-04-01	Nylon	1
13	Cable pipe	AA4500-005-04-03	Q235A	1

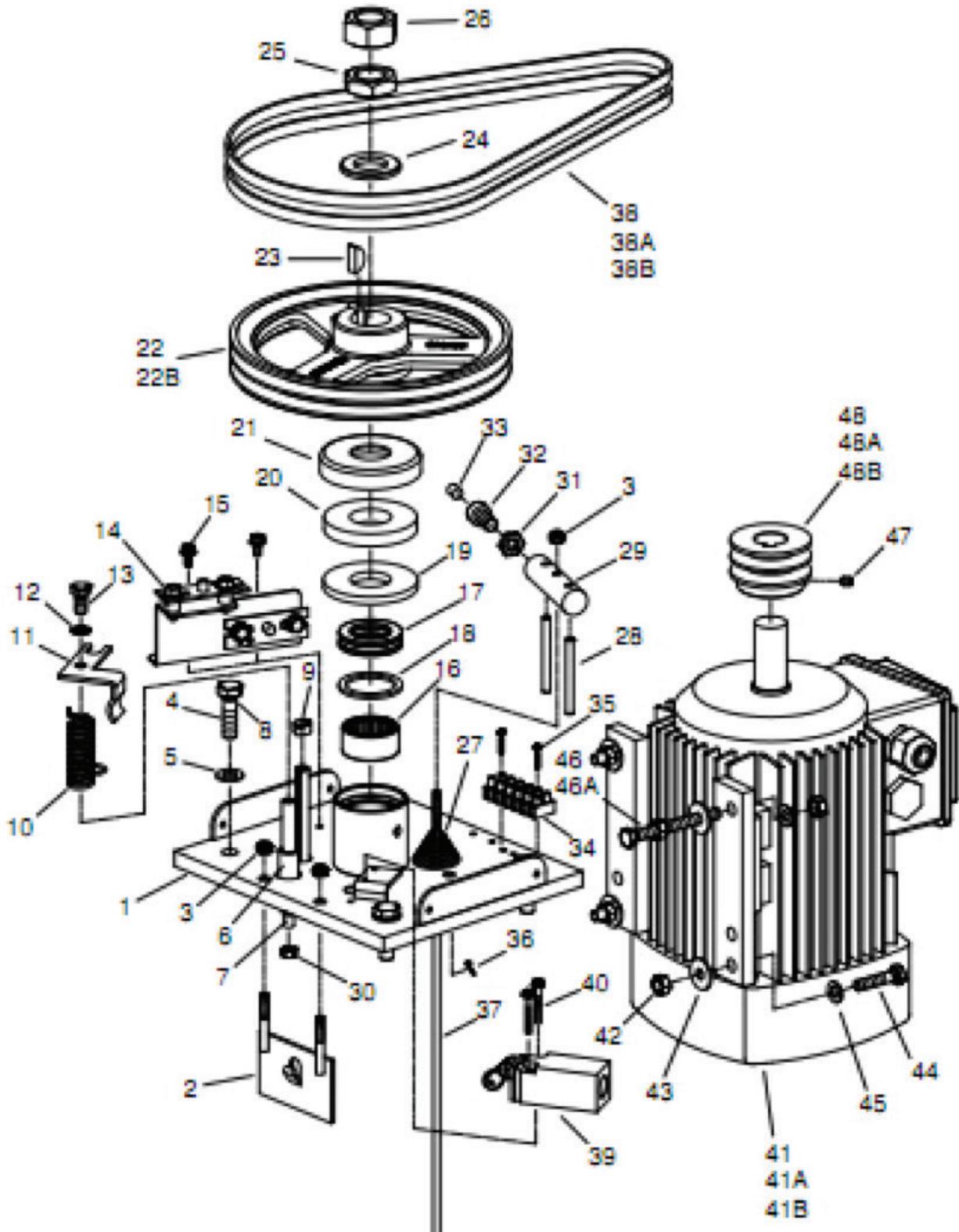
ANNEX 4 Wiring Diagram



ANNEX 4 Wiring Diagram



ANNEX 5 Separate Diagrams for Hoist



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ANNEX 5 list for Diagram Hoist

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
1	Top plate	AA4500-003-002-001	Welding piece	2
2	Fittings	AA4500-003-001-007-00	Welding piece	2
3	Nut	M6 GB6170-86	Standard piece	4
4	Bolt	M12*25 GB5781-86	Standard piece	10
5	Washer	12	Standard piece	10
6	Bushing	AA4500-003-002-006	Standard piece	2
7	Pipe	AA4500-003-005-01	Q235A	2
8	Spring pin			
9	Locking ring	AA4500-003-002-030	Nylon	2
10	Spring	AA4500-003-002-007	65Mn	2
11	Fittings	AA4500-003-002-003	Q235A	2
12	Washer	8	Standard piece	2
13	Screw	M8*20 GB818-85	Standard piece	2
14	Angle brace	AA4500-003-002-009	Q235A	2
15	Screw	M6*25 GB818-85	Standard piece	8
16	Needle bearing	NKI30/30	Standard piece	2
17	Axial bearing	51206	Standard piece	2
18	Washer			
19	Washer	AA4500-003-004-004	Q235A	2
20	Rubber spring	AA4500-003-004-005	Rubber	2
21	Housing for spring	AA4500-003-004-003	Q235A	2
22	Big pulley	AA4500-003-002-020	HT150	2
23	Key	AA4500-003-007-02	45	2
24	Washer	24	Standard piece	2
25	Thin nut	M24 GB41-86	Standard piece	2
26	Nut	M24 GB6170-86	Standard piece	2
27	Spring	AA4500-003-002-008	65Mn	2
28	Spring pin	5*50	Standard piece	4
29	Magnet holder	AA4500-003-006-01	Nylon	2
30	Nut	M6 GB6170-86	Standard piece	4
31	Nut	M10 GB6170-86	Standard piece	2
32	Screw	M10*30 GB5781-86	Standard piece	2
33	magnet	AA4500-003-007-04		2
34	Crown socker			2
35	Screw	M3*16 GB818-85	Standard piece	4
36	Split pin	3.2*18 GB91-86	Standard piece	2
37	Rod	AA4500-003-002-010	Q235A	2
38	V-belt	965LI	Standard piece	6
39	Limit switch	8112	Standard piece	2
40	Screw	M4*25 GB818-85	Standard piece	4
41	Motor	2.8kw	Standard piece	2
42	Nut	M8 GB6170-86	Standard piece	6
43	Washer	8	Standard piece	6



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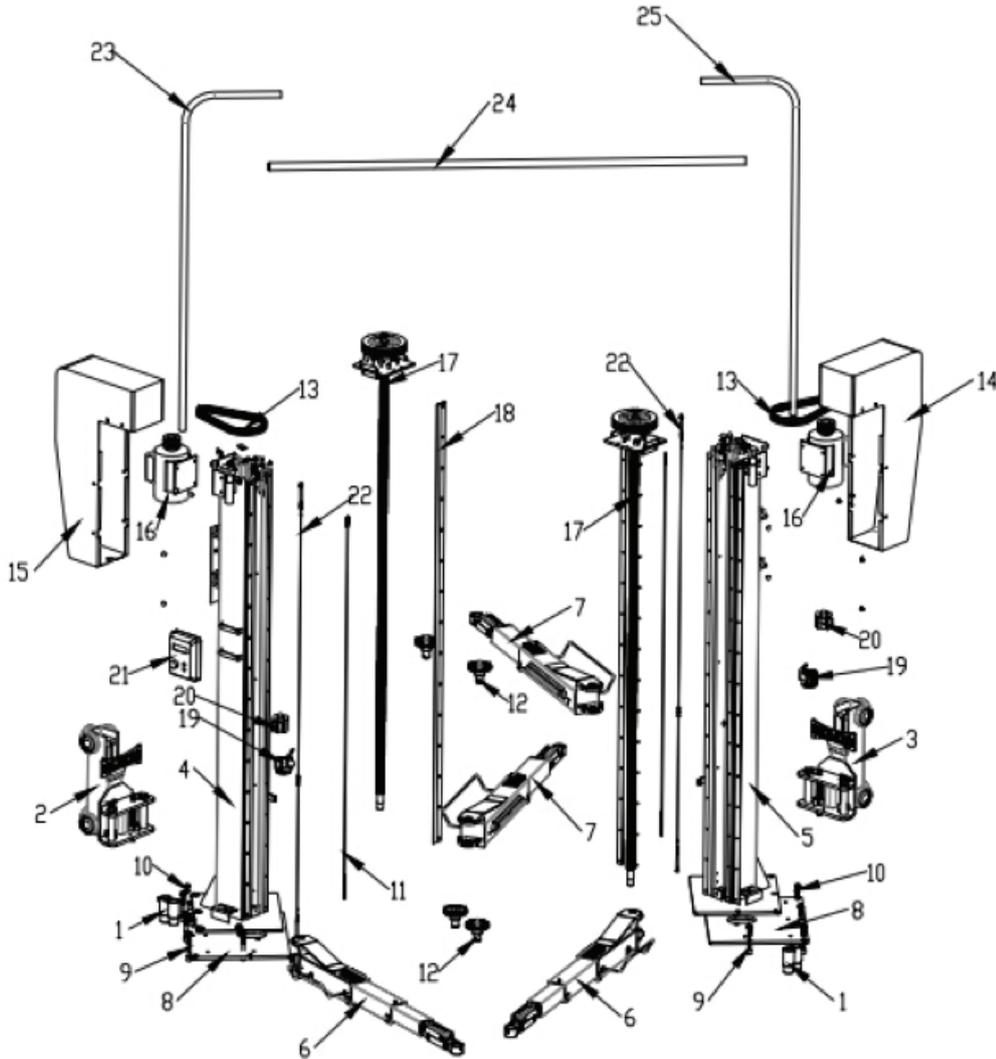
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ANNEX 5 list for Diagram Hoist. Continued

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
44	Screw	M8*30	Standard piece	6
45	Washer	8	Standard piece	2
46	Screw	M8*70	Standard piece	2
47	Pointed screw	M6*10	Standard piece	2
48	Little pulley	AA4500-003-002-07	HT150	2



S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
1	Height adapter	AA4500-013-00	Component	4
2	Main carriage	AA4500-002-001-005-10	Component	1
3	Assistant carriage	AA4500-002-001-005-11	Component	1
4	Main post	AA4500-003-01-01	Welding piece	1
5	Assistant post	AA4500-003-01-01Z	Welding piece	1
6	Long arm bracket	AA4500-004-000	Component	2
7	short arm bracket	AA4500-004-001	Component	2
8	Bed plate	AA4500-003-001-001	Q235A	2
9	Expansion bolt	M16*180		10
10	Bolt	M16*30 GB5781-85		10



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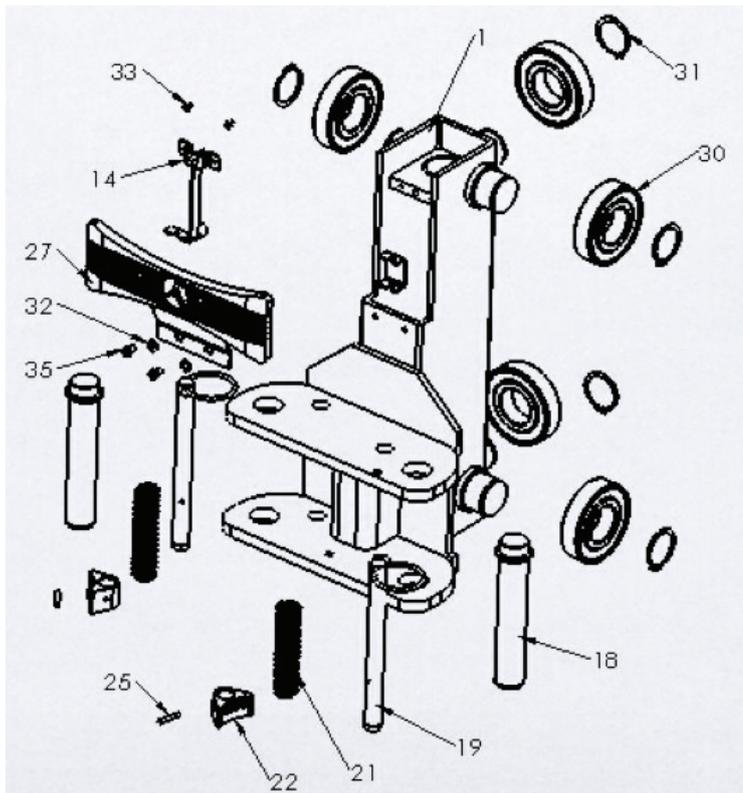
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ANNEX 5 list for Diagram Hoist. Continued

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
11	Rod	AA4500-003-002-010	Component	2
12	Washer	8	Standard piece	2
13	V-belt	AA4500-003-007-06	Standard piece	6
14	Assistant cover	AA4500-006-02	Welding piece	1
15	Main cover	AA4500-006-01	Welding piece	1
16	Motor assemble	AA4500-003-007-00	Component	2
17	Spindle assemble	AA4500-003-002-00	Component	2
18	Rubber curtain	AA4500-003-001-006	Component	4
19	Nut assemble	AA4500-001-01-03-10	Component	2
20	Nut assemble	AA4500-001-01-03-11	Component	2
21	Control box	AA4500-200-08	Component	1
22	Wirerope ssemble	AA4500-003-005-00	Component	2
23	Wire pipe	AA4500-005-04-03	Q235A	2
24	Wire pipe	AA500-005-04-01	PE	2
25	Wire pipe	AA4500-005-04-02	Q235A	2



S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
1	Carriage	AA4500-002-001-005-00	Welding piece	1
14	Safety device	AA4500-002-001-008-00-1	Component	1
18	Shaft	AA4200-903-00	Welding piece	2
19	Shaft	AA4200-814-00	Component	2



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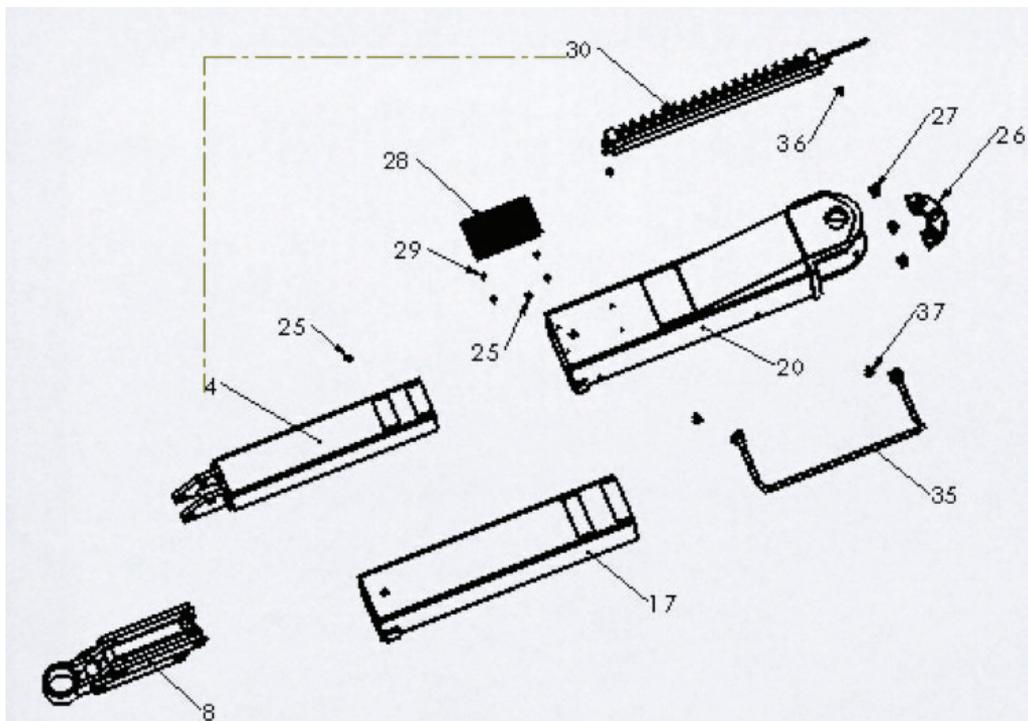
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ANNEX 5 list for Diagram Hoist. Continued

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
21	Spring	AA4200-815	65Mn	2
22	Lock	AA4200-816-01	ZG270	2
25	Spring pin	5*35	Standard piece	2
27	Door protection	AA4500-002-002-001-01	Component	1
30	Retaining ring	50	Standard piece	6
31	Bearing	6310	Standard piece	6
32	Washer	8	Standard piece	2
33	Screw	M5*10	Standard piece	2
35	Screw	M8*12	Standard piece	2



S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
4	Arm	AA4500-004-10-03	Welding piece	1
8	Quick arm	AA4200-916-1	Component	1
17	Arm	AA4500-004-10-02	Welding piece	1
20	Arm	AA4500-004-10-01	Welding piece	1
25	Screw	M8*10	Standard piece	2
26	Lock	JA4200-816-02	ZG270	1
27	Screw	M10*20	Standard piece	3
28	Pad	AA4200-909	Rubber	1
29	Screw	M5*12	Standard piece	4



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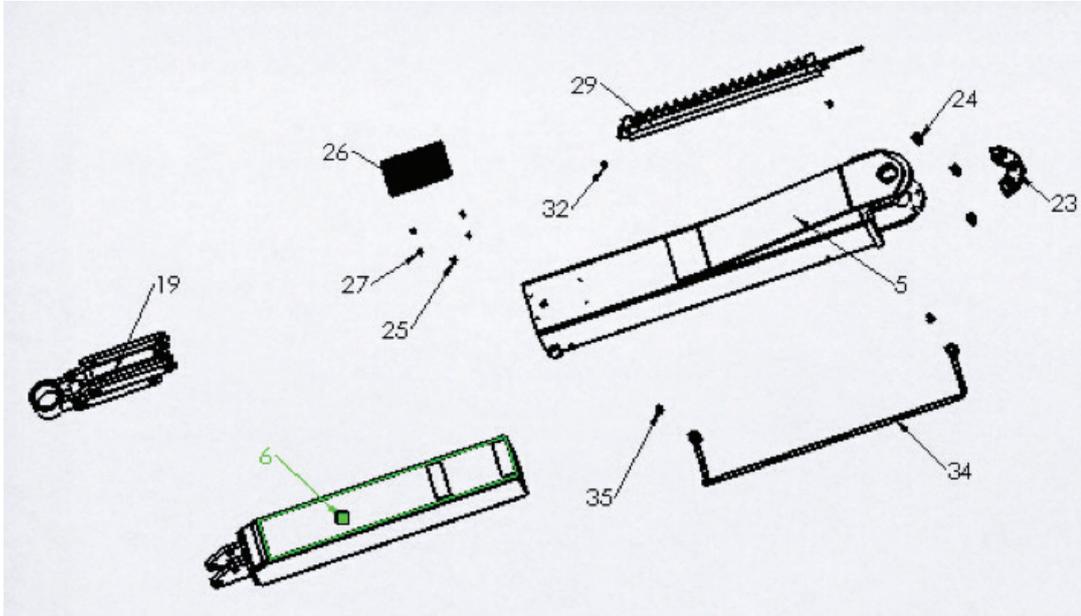
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ANNEX 5 list for Diagram Hoist. Continued

S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
30	Light assemble	AA4500-005-05-1	Component	1
35	Foot protection	AA4500-004-04-00	Welding piece	1
36	Screw	M6*10	Standard piece	2
37	Screw	M8*12	Standard piece	2



S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
5	Arm	AA4500-004-11-01	Welding piece	1
6	Arm	AA4500-004-11-00	Welding piece	1
19	Quick arm	AA4200-916-1	Component	1
23	Lock	AA4200-816-02	ZG270	1
24	Screw	M10*20	Standard piece	3
25	Screw	M8*10	Standard piece	1
26	Pad	JA4200-909	Rubber	1
27	Screw	M5*12	Standard piece	4
29	Light assemble	JA4500-005-05-1	Component	1
32	Screw	M6*10	Standard piece	2
34	Foot protection	AA4500-004-03-00	Welding piece	1
35	Screw	M8*12	Standard piece	2



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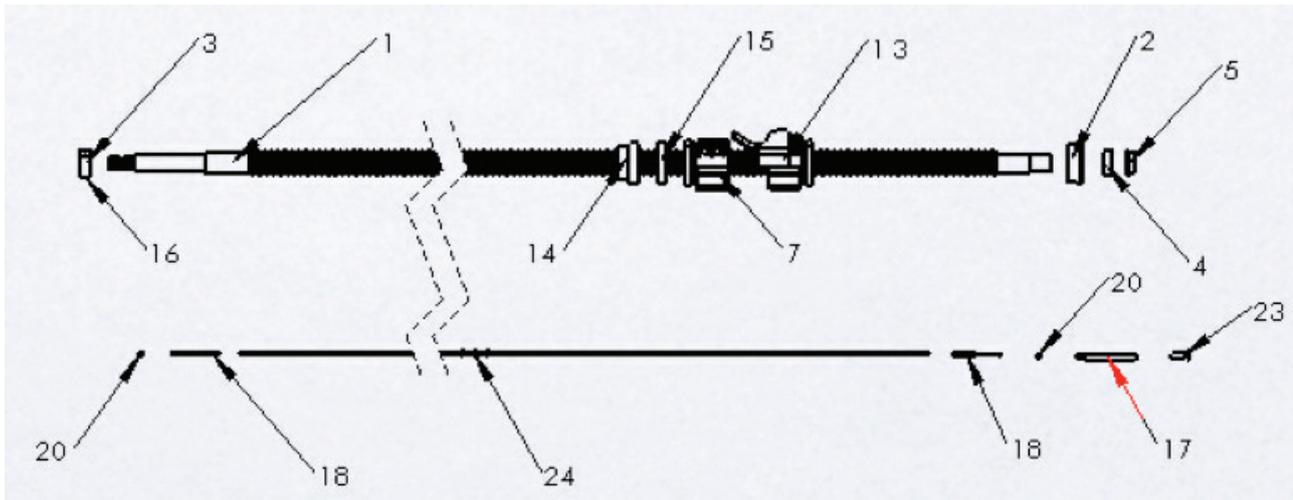
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ANNEX 5 list for Diagram Hoist. Continued



S/N	NAME	DRAWING / SIZE	DESCRIPTION	QTY
1	Spindle	AA4500-003-004-001	40Cr	1
2	Cover	AA4500-003-002-015	Nylon	1
3	Stop ring	AA4500-004-002	Q235A	1
4	Ring	AA4500-200-04	Nylon	1
5	Bushing	AA4500-003-002-012	Nylon	1
7	Nut assemble	AA4500-001-01-03-10	Component	1
13	Nut assemble	AA4500-001-01-03-11	Component	1
14	Bushing	AA4500-001-001-002	Nylon	1
15	Washer	AA4500-001-001-001	Nylon	1
16	Screw	M6*10	Standard piece	1
17	Pipe	AA4500-003-005-02	Q235A	2
18	Pipe	AA4500-003-005-01	Q235A	2
19	Wire rope	ø2	L=2277	1
20	Nut	M6	Standard piece	2
23	Screw	M8*20	Standard piece	1
24	Bushing	AA4500-003-002-013	Nylon	3



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ANNEX 6 Electrical System Parts List

S/N	NAME	SPEC	QTY
1	AC contactor	CJX2-1210	4



S/N	NAME	SPEC	QTY
2	Power switch	LW26-20	1



S/N	NAME	SPEC	QTY
3	Button	LAS1-22	2



S/N	NAME	SPEC	QTY
4	24V power supply	S-50-24	1



S/N	NAME	SPEC	QTY
5	Limit Switch		3



S/N	NAME	SPEC	QTY
6	LED Light	24v,6w	4



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