



Apex 6000TP - Two Post Parking Lift

INSTALLATION, OPERATION

Lifting capacity: 6,000 lbs

AND MAINTENANCE MANUAL

Original Instruction



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

AMERICAN
Custom Lifts

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1. Important safety instructions

1.1 Important notices

The Apex 6000TP has a 10 year warranty on structure, and 1 year warranty for the whole machine. Within the warranty period, power units, hydraulic cylinders, and all other assembly components such as slip plates, cables, chains, valves, switches etc, are warranted for **one** year against defects in material or workmanship under normal use. AC Lifts shall repair or replace at their option for the warranty period those parts returned to the factory freight prepaid which prove upon inspection to be defective. AC Lifts will not be responsible on any labor costs unless pre-agreed. AC Lifts will not be responsible for the modifications or upgrade of the product from the client unless pre-agreed. These warranties do not extend to

- defects caused by ordinary wear, abuse, misuse, shipping damage, un-proper installation, voltage or lack of required maintenance;
- damages resulting from purchaser's neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) and/or other accompanying instructions supplied;
- normal wear items or service normally required to maintain the product in a safe operating condition;
- any component damaged in shipment;
- other items not listed but may be considered general wear parts;
- damage caused by rain, excessive humidity, corrosive environments or other contaminants.
- any change or modification made to the equipment without pre-agreed.

These warranties do not extend to any cosmetic defect not interfering with equipment functionality or any incidental, indirect, or consequential loss, damage, or expense that may result from any defect, failure, or malfunction of an AC Lifts product or the breach or delay in performance of the warranty.

This warranty is exclusive and in lieu of all other warranties expressed or implied.

AC Lifts reserves the right to make design changes or add improvements to its product line without incurring any obligation to make such changes on product sold previously.

Warranty adjustments within the above stated policies are based on the model and serial number of the equipment. This data must be furnished with all warranty claims.

The Apex 6000TP is designed for cars parking under stated maximum weight, 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 machine and follow the instructions given by this guide to grant the machine a correct function, efficiency and a long service life.

1.2 Qualified personnel

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

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 platform lowering.

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

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 operations.

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

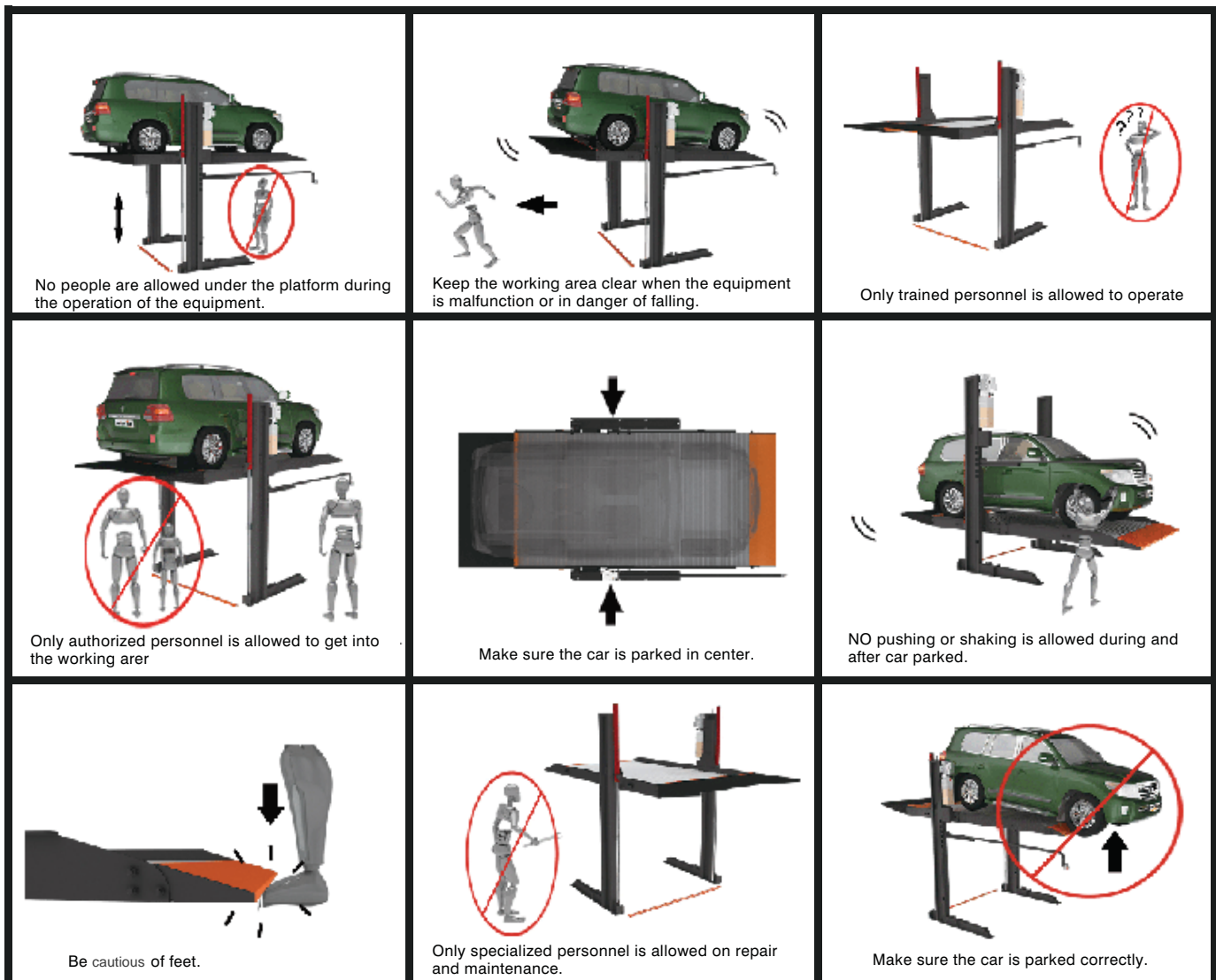
1.3.9 Always insure the safety devices are engaged before any attempt to work on or near vehicle.

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 machine 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 machine without manufacturer's advice.
- 1.3.14 If the machine is not to be used anymore, 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 Warning signs

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





1.5 Level of sound pressure

The sound pressure of the car lift does not exceed 75DB.

1.6 Training

Only qualified personnel can operate and use the lift. All operators should have a copy and read this manual before operating the lift.

2. Overview of the machine

2.1 Product Introduction

The Apex 6000TP is the latest version of two post parking lift that developed through continuous research. The product mainly consists of two posts, two carriages, one cylinder, one control box, one control box, one power unit and platform covered by wave plates.

The left and right post can be used in common, and the post can be shared so that some units are installed together.

This lift is driven by power unit, which delivers the hydraulic fluid to cylinder behind the main post, then to the chains which carry the platform.

The safety anti-falling block can automatically lock the platform from 19.68" up to 82.67" , "all the way" mechanical lock will ensure the safety.

2.2 Product parts list



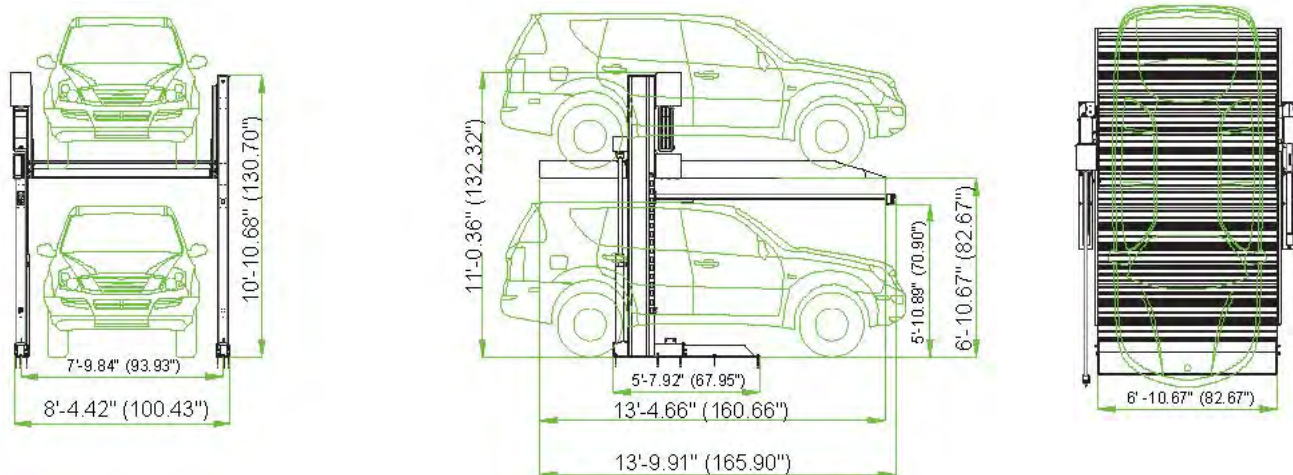
- ① Carriage
- ② Transparent oil tank
- ③ Galvanized cover plate
- ④ Electric box
- ⑤ Key switch & emergency stop button
- ⑥ Ramp
- ⑦ Dynamic lock
- ⑧ Front footage

2.3 Product specifications

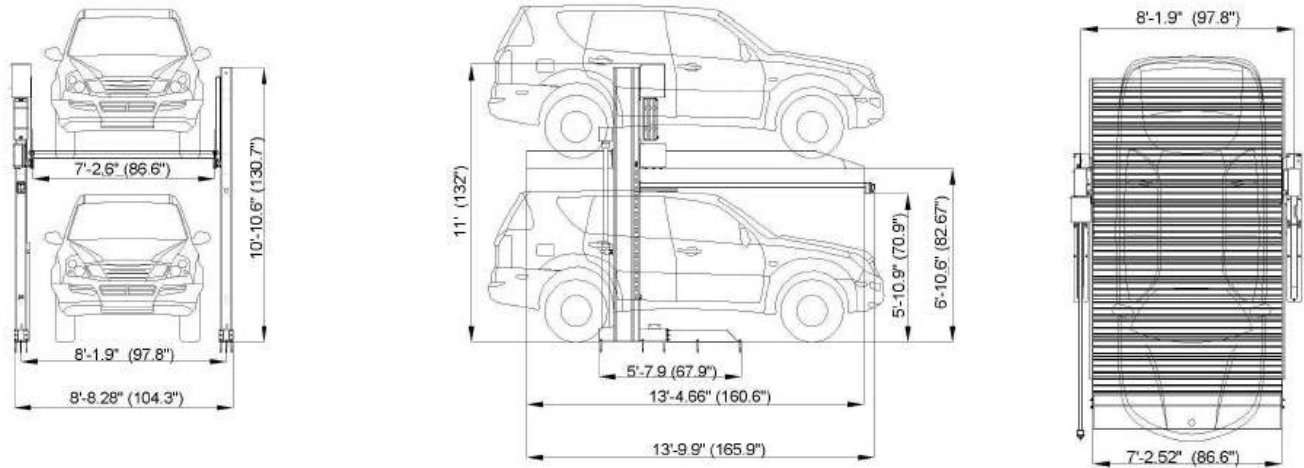
Models	Apex 6000TP
Rated capacity	6000 lbs
Lifting height	82" (6'10")
Usable platform width	82" (6'10") or 86" (7'2")
Lock device	Dynamic
Lock release	Manual
Operation	Key switch
Power unit	4 hp Individual PU or 5.5hp-20hp Commercial PU
Rising/descending time	<40
Electrical required	100-450V AC, 1 or 3Phase, 50/60Hz
Control voltage	24V

2.4 Product dimensions

Apex 6000TP Standard Dimensions



Apex 6000TP 86" (7'2") Wide Platform



3.Package

The Apex 6000TP is packed by packing frame, straps and paper board to avoid damage during the transportation.



4.Assembly

4.1 Notice

- 4.1.1 Before installing the product, please read and learn the safety warnings in detail.
- 4.1.2 Keep the working site clean and tidy.
- 4.1.3 Check the working environment of the product. Don't put the product in the rain. Don't use the product in the damp environment. Keep good ventilation and enough light.
- 4.1.4 Only trained person can operate the parking equipment. The staff untrained should keep away from the working area. All the staff without training is forbidden to operate the lift.
- 4.1.5 Motor must be grounded to avoid electric shock.
- 4.1.6 Power off when installing to secure the safety as there is high voltage on the power unit.
- 4.1.7 Be careful during operation to avoid any accident.
- 4.1.8 Operate the equipment in normal way. Do not modify the equipment or use any part which is not from our company.

- 4.1.9 Prohibit dismantling any parts related with safety.
- 4.1.10 Safety locking device should be well protected.
- 4.1.11 When lifting or lowering the vehicle, keep people, car or animal away
- 4.1.12 Keep enough space away from the equipment in case the vehicle on the equipment is in danger.
- 4.1.13 Warning: Keep any flammable thing away from the working area as there is electric spark when the switch works.
- 4.1.14 ⚠ This mark means safety warning.
- 4.1.15 Keep the equipment clean and keep regularly maintained . Appropriate lubrication and maintenance is good for the reliability of the equipment.
- 4.1.16 Keep key switches and buttons clean and dry to avoid the oil and grease on the product.
- 4.1.17 Check the synchronous situation of the left and right carriage and check if there is any damaged part, if there is any abnormal situation, please stop operation and fix the problem.

4.2 Preparation

Before you install the lift, you should check the following items:

- 4.2.1 The working area should be well designed and has enough space.
- 4.2.2 Keep obstacle, like electric wire, away from installing area.
- 4.2.3 Check carefully if there is crack on the concrete ground that install the lift and check if the foundation intensity can reach the requirements. The compressive strength should be no less than 3000 PSI And the thickness of concrete basement should be no less than 6".
- 4.2.4 Make sure the concrete slab is level; over 1" is not allowed.
- 4.2.5 Not allowed to install equipment on the pitch ground or other non-concrete ground.
- 4.2.6 Not allowed to install equipment on the ground with crack or rubbish on concrete ground.
- 4.2.7 Not allowed to install equipment on second floor or higher floor without approval of architect.
- 4.2.8 If there is no protection, please do not install the equipment outdoor to avoid something wrong with the motor in rainy days.
- 4.2.9 Confirm the wiring position from power supply to this device to make wiring work easy and make sure all wires will be protected well.
- 4.2.10 Draw up the position of the baseplate of the column with chalk after the confirmation to assure the tolerance within 3mm to avoid effecting the installation of the lift.
- 4.2.11 Check carefully to assure the layout is correct.

4.3 Necessary tools

1 set of non-adjustable spanner, adjustable spanner and allen wrench.	Some power line	Sealing tape
1 set of screwdriver (including slotted screwdriver and phillips screwdriver)	1 piece of hammer	1 electric welding machine
1 piece of leveling instrument for 1M and 3M.	Some duster cloth	1 cutting machine
1 unit of forklift with 2T capacity.	1 piece of grease gun	1 piece of electric portable drill
1 piece of percussion drilling with 12x200 aiguille.	1 piece of tapeline for 5M	
Insulated rubber tape	1 piece of percussion drilling with 12x200 aiguille.	
	Insulated rubber tape	

4.4 Installation

- 4.4.1 Fix the chain to chain fixture on the bottom of main post, and make the chain go through chain wheel assembled in carriage from main post.

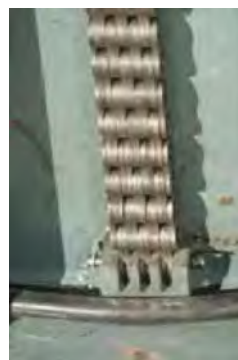


Chart (1) Chain fixture



Chart (2) Chain wheel

4.4.2 Make the oil hose go through the main post from top to bottom.

4.4.3 Make the wires of limit switch, motor and solenoid valve go through the main post from middle to top, and mount the limit switch to post cover plate on the top of main post. Make the wire of photocell sensor go through main post from middle to nether photocell sensor hole.



Chart (3) Limit switch



Chart (4) Photocell sensor

4.4.4 Put 10L hydraulic oil into oil tank. HM#46 hydraulic oil is needed for normal temperature and HM#32 hydraulic oil is needed for low temperature. Fix the power pack bracket onto power pack, and mount the power pack onto main post. Then connect the oil hose out from top with oil-out of power pack.

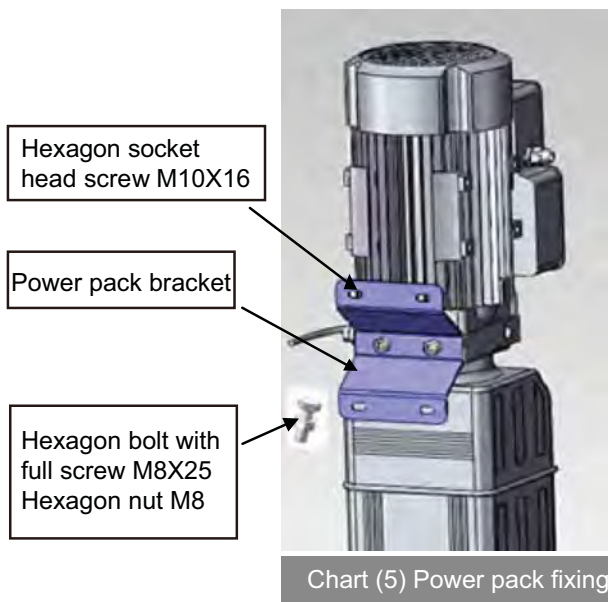


Chart (5) Power pack fixing

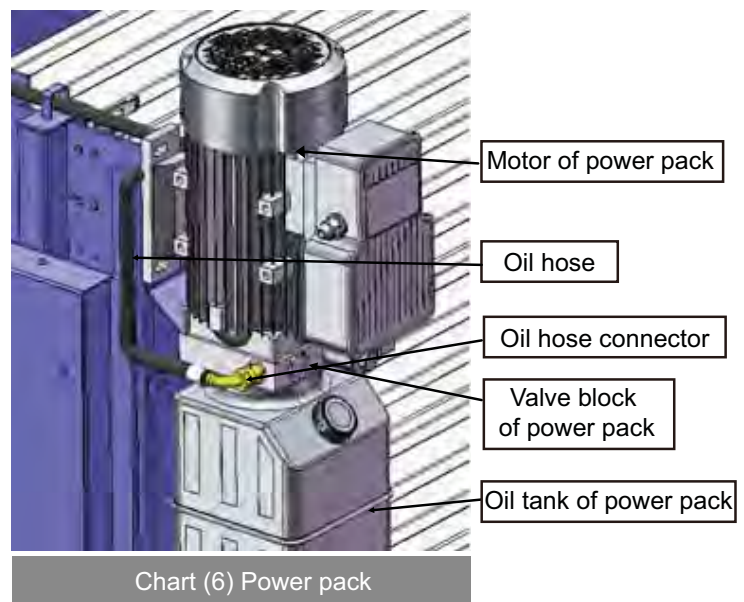
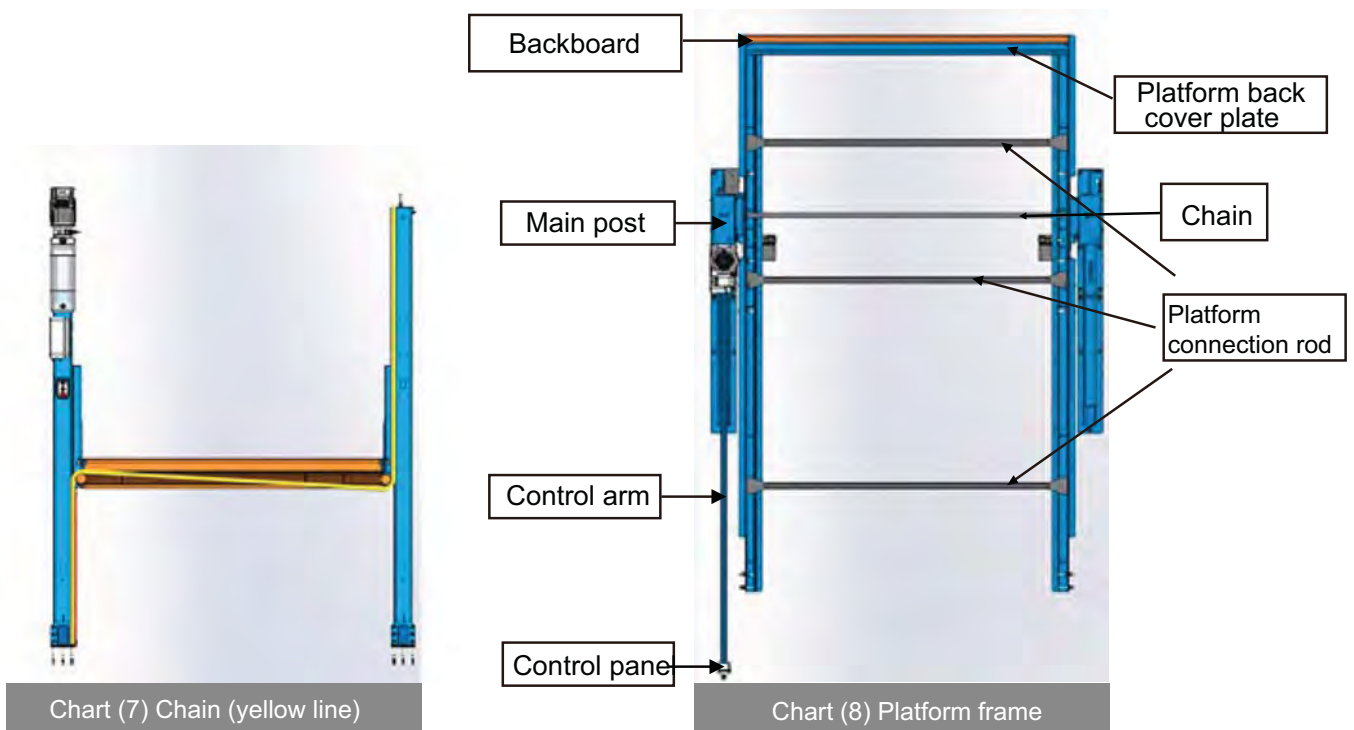


Chart (6) Power pack

4.4.5 Draw lines on site to confirm the exact installation position for all equipments as per project requirements. Erect the main post to the position according to drawn lines, and fix the post onto slab by anchor bolts. Considering the final adjustment, please do not tighten the screw nuts of anchor bolts.

4.4.6 Make the chain go through two side beams and the other chain wheel in the other carriage from second post, before fix side beams to carriages.

4.4.7 Fix a side beam to carriage from main post, and place the backboard, three platform connection rods and the other side beam on the slab as per the exact positions to confirm the position of second post. Then erect the second post, fix backboard, platform connection rods with side beams by bolts, and fix side beam with carriage from second post by bolts. Considering the final adjustment, please do not tighten the screw nuts of anchor bolts.



4.4.8 Fix the other end of chain, which goes through the chain wheel in carriage from second post, onto the post cover plate on the top of second post.

4.4.9 Attach latch Push Rod as shown in photo below. Attach manual latch Pull Cable from Latch Handle to Latch Release Bar as shown in diagram and photo below.



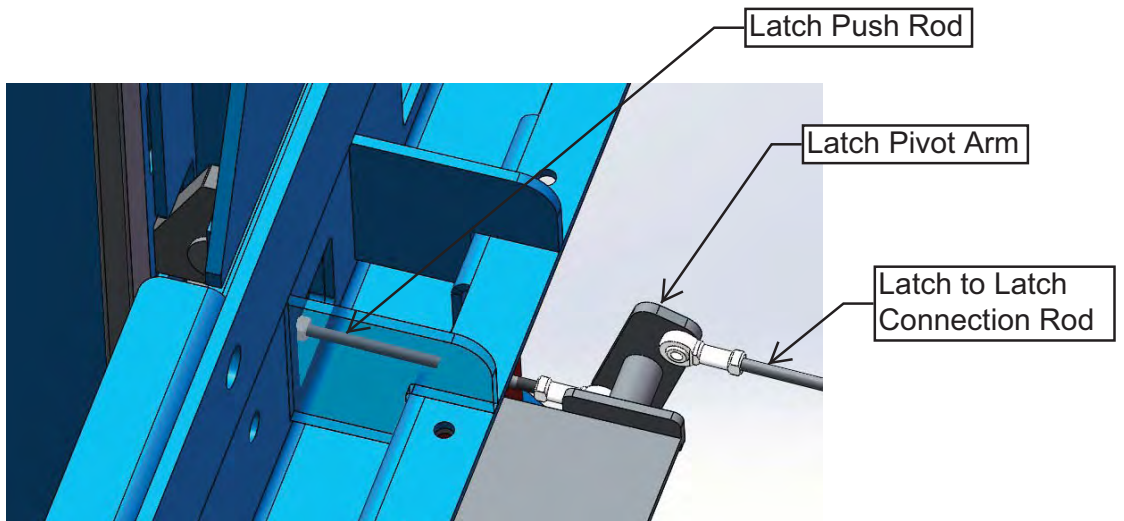
Chart (9) Fixing chain onto top of post



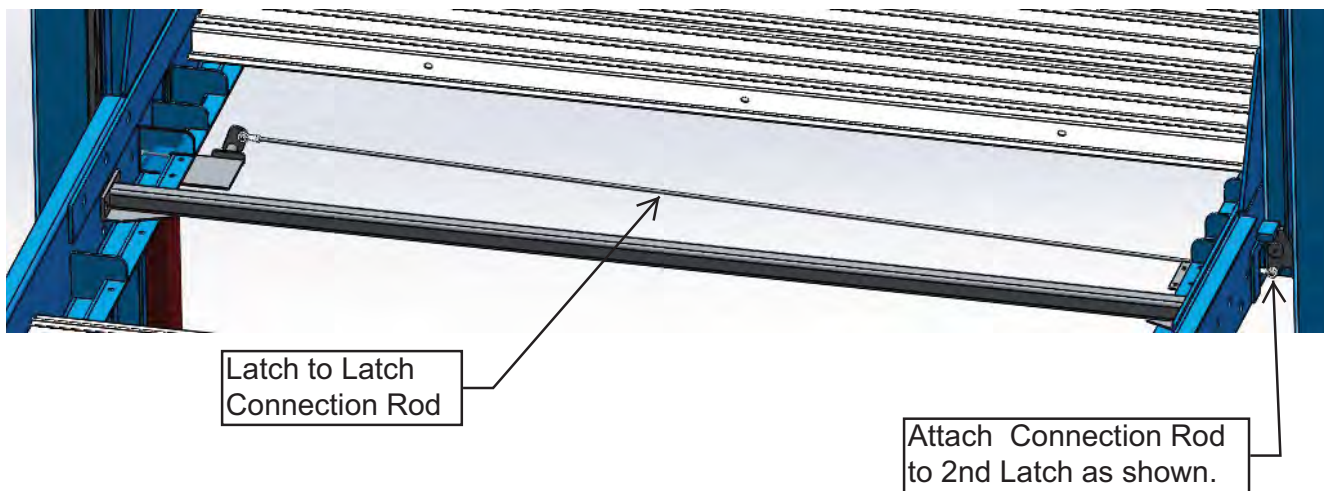
Latch Push Rod attachment.



Latch Pull Cable attachment to Latch Handle & Latch Release Bar.



Attach Latch Push Rod and Latch Connection Rod to Latch Pivot Arm as shown.



4.4.10 Mount the hydraulic cylinder and lifting chain, and connect the other end of oil hose, which go through the main post, to cylinder by joint.

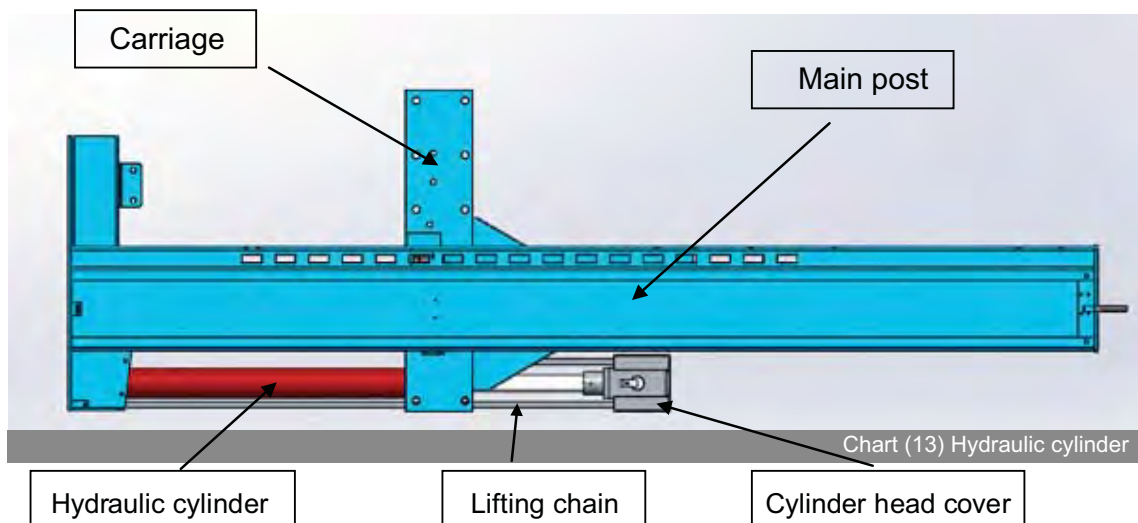




Chart (14) Cylinder bracket



Chart (15) Connection of oil hose and lifting chain

4.4.11 Place the platform back cover plate and 8 pieces of waving plates onto platform frame backwards, starting from the backboard, and without any bolts fixing.



Chart (16) Platform

4.4.12 Connect the power supply on site to the hydraulic power pack, to make the platform go up to the height of a person, then cut off the power supply. Fix the platform back cover plate and 8 pieces of waving plates to side beams.

4.4.13 Place the rest waving plates and ramp onto platform frame, and fix all of them by bolts.

4.4.14 Fix the control box bracket onto main post, make the wire of control panel go through control arm, then fix control box onto control box bracket, and connect wires of limit switch, motor, solenoid valve, photocell sensor and control panel into control box. Fix the control arm onto main post, and control panel onto control arm.

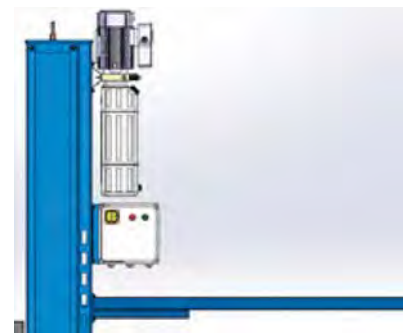


Chart (17) Fixing control box and control arm

4.4.15 Operate the equipment by key switch on control panel to make platform go up and down for ten times for testing and to discharge the air in the cylinder. Once the platform goes up to top position, stop turning the key switch to avoid any damage of electrical parts. The platform will move up for several seconds to release the lock then move down if you turn DOWN. If the platform is already at the top position, it will stop moving for several seconds then move down, this is normal.



Chart (18) Control panel

4.4.16 Fix all anchor bolts onto slab. Take base plate of post as the reference to drill hole with electric hammer on the concrete ground. These holes should be about 4.75" deep. Do not expand the hole and keep the electric hammer steady. After drilling hole, clear the inside of the hole and check the alignment of the base plate and chalk line. Hammer the anchor bolts into the hole, until the washer touches the basement plate.



Chart (19) Fixing anchor bolts

4.4.17 Adjust the distance to make $A1 = B1$ and $A = B$. Add the gasket to adjust when the distance is unequal. After the post is vertical to the ground, screw down the anchor bolts and screw nuts.

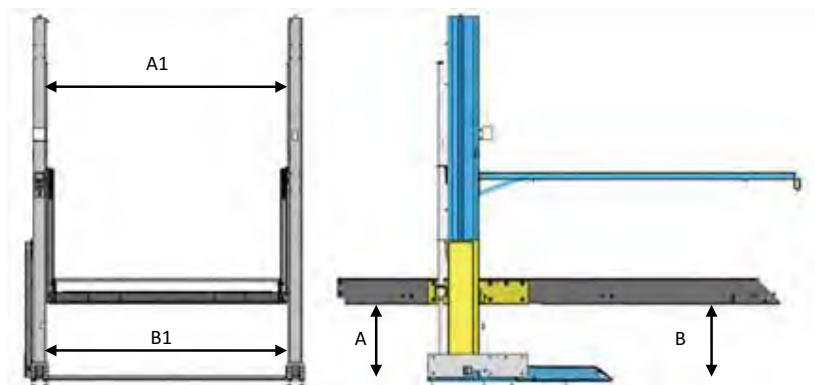


Chart (20) Adjusting distance

4.4.18 Mount cylinder head cover onto the top of cylinder.

4.4.19 Adjust the chains to make the tightness moderate, and the platform must be horizontal.

ATTENTION: during all operation, please check carefully on all moving parts to make sure they are assembled correctly and work well. Fix any problem before installation finishes.

4.4.20 Lubricate every sliding part with the lubricant after installation.

5. Notes

5.1 General

- 5.1.1 PLEASE MAKE SURE ALL THE RUBBER SLIDERS ON CARRIAGE ARE LUBRICATED WELL TO MAKE CARRIAGES SLIDE ON THE POSTS.
- 5.1.2 If the equipment will be not in service for a long time, the main power supply should be closed to avoid accident and to save energy.
- 5.1.3 If the equipment has not been in service for a long time, please lubricate it and check if there is any damage and rust corrosion before operation again. Check if the equipment is in good condition by no-load running.
- 5.1.4 Do not use the equipment if the floor or any component is damaged.
- 5.1.5 Do not operate the equipment if there is person or other obstacle under it.
- 5.1.6 Prohibit using the equipment for other purpose.
- 5.1.7 Safety lock device should be in good condition at any time.
- 5.1.8 Do not leave with the unlocked equipment in a certain height.
- 5.1.9 Keep the motor dry. We are not responsible for the motor damage caused by damp.

5.2 Parking

- 5.2.1 Drive the car onto the appropriate position of the platform .Avoid collision with the control arm and the rear of the platform.
- 5.2.2 Hold the manual brake after the car on the position.
- 5.2.3 Open the car door carefully to avoid any collision. Pay attention to the waving plates and side beams in case any falling down of person.
- 5.2.4 Turning UP to lift the car to the appropriate position, and the platform will be locked automatically.
- 5.2.5 Before another vehicle parked under platform, please check and make sure the other vehicle height is lower than platform, to avoid any damage.

5.3 Operation

- 5.3.1 The inspection on whole equipment is necessary before operation, and make sure your operation is under the condition that all equipment devices work well.
- 5.3.2 Before first operation, firstly please open general power switch, secondly open the power switch on control box, and thirdly make sure the emergency stop button on control panel is open.
- 5.3.3 Make sure vehicle is parked in the middle of platform, and the rear tires must reach the car stopper in the back of platform.
- 5.3.4 Over loading is not allowed for vehicle parked on the platform, the rated capacity of the Apex 6000TP is 6000 lbs.
- 5.3.5 The wheel base of vehicle parked on the platform should not be more than 144" (12') and the total height of vehicle parked under platform should not be more than 81" (6'9") .
- 5.3.6 The power indicator light is off until both general power switch and power switch on control box is opened, which will make the circle of whole control system on.
- 5.3.7 Please pay all your attention on the movement of platform during this equipment works. And stop your operation at once if any toppling of platform is found.
- 5.3.8 Turn the key by anticlockwise to make the platform go up, and turn the key by clockwise to make the platform go down.
- Keep holding the key switch to operate the equipment, which will stop at once if your hand releases.
- 5.3.9 Due to top limit switch, the equipment can stop at once if the platform lifts up to top position.
- 5.3.10 There are three statuses in descending:
 - (a) The distance of platform to ground is 82" (6'10") (the top position), if you keep turning the key to DOWN: after no movement for 3 to 5 seconds, the mechanical lock will be released automatically then platform start to descend.
 - (b) The distance of platform to ground is less than 82" (6'10") but more than 19.68" , if you keep turning the key to DOWN: the platform will lift up for 3 to 5 seconds, then the mechanical lock will be released automatically and the platform start to descend.
 - (c) The distance of platform to ground is less than/equal to 19.68" , if you keep turning the key to DOWN: without waiting or lifting, the mechanical lock will be released automatically and the platform starts to descend with buzzer and alert light.



Chart (21) Lock down button

5.3.11 After the platform reaches targeted position, please press the black round button in the middle, to make the platform descend a little and stop at the locking holes. This will make the platform carried by posts rather than by cylinder, therefore the cylinder can have longer lifetime.

5.3.12 Please press the RED and ROUND button in the bottom, emergency stop button, to stop the product if any accident happen or anything else needing equipment stop. Rotate the emergency stop button to reset it after being sure the equipment can be operated.

5.4 Maintenance

5.4.1 Do lubrication on inside of posts and guide pulley once per month.

5.4.2 Do lubrication on balance chain once per month.

5.4.3 Change all the hydraulic oil three months after first operation; and change oil every nine months after first changing.

5.4.4 Frequently check the screw nuts of bolts fixing the electromagnet and locking plate, if any screw nut is loosening please fasten it ASAP.

5.4.5 Before operation, please check the connector of electromagnet, if it's loosening please fasten it; then do testing on top limit switch and photocell sensor, if it cannot work please fix the problem, and if cannot fix it please replace it.

5.4.6 The seal in hydraulic cylinder should be replaced every two years.

5.4.7 The sliding block should be replaced every two years.

5.4.8 The valve element in solenoid valve and filter in power unit should be cleaned every half year.

5.4.9 If any noise comes out from electromagnet, please replace it ASAP.

5.5 Service

5.5.1 If the platform tilts right-and-left when lifting, please check and adjust the balance chains.

5.5.2 If the platform tilts fore-and-aft when lifting, first please check if vehicle is parked correctly; second check the perpendicularity of post, if the platform still tilts after the above mentioned works please replace the sliding block.

5.5.3 If the platform tilts right-and-left when descending, first please check if the mechanical locking plate at higher side is unlocked, please make sure the wiring and related electromagnet works well if the locking plate is locked; please check and adjust the balance chains if the locking plate is unlocked.

5.5.4 If the platform tilts fore-and-aft when descending, first please check if vehicle is parked correctly; second check the perpendicularity of post, if the platform still tilts after the above mentioned works please replace the sliding block.

5.5.5 Adjust the compensated flow control valve on the power unit, if the lifting/descending speed is too fast or too slow.

5.5.6 Check if the emergency stop button is open and air switch is closed, if the equipment doesn't lift up when keep turning UP.

5.5.7 Check if the solenoid valve is open, if the platform only lifts up but not descends or it doesn't move at all when keep turning DOWN.

5.5.8 Check if the electromagnet is working to make the mechanical locking plate unlocked, if the platform lifts up first then descends but stop on the locking tab when keep turning DOWN.

5.5.9 Check if the electromagnet is working to make the mechanical locking plate unlocked, if the platform descends only but then stop on the locking tab when keep turning DOWN.

5.5.10 Check if the photocell sensor works correctly if the platform only descends with buzzer and warning light on when keep turning DOWN and the platform is above 19.68" height.

5.5.11 Open the vent valve on the cylinder to make some air inside of cylinder released, if the platform jounces when lifts up.

5.5.12 How to get the equipment balance:

(a) Lift the platform up to any locking tab above 19.68" height;

(b) Manually open the manual switch of solenoid valve on power unit to make platform descend;



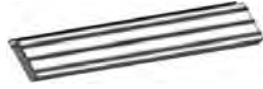

















(c) Keep turning on the manual switch of solenoid valve until both two mechanical locking plates on two sides of carriages fall on the bottom of the locking tabs on same level

(d) Tighten or loosen the screw on adjustable screw to adjust the tightening or sag balance chains, to make the platform in balance during operation.

5.5.13 Trouble shooting

Description	Possible reason	Solution
The motor works, no hydraulic oil leakage, the sound is abnormal, but the platform can't rise.	There is air in the hydraulic oil.	Lift with no load to the highest position, and keep for seconds and then lower down, when lowered to the half height, screw to open the oil hose connector, discharge the air and then screw down.
	Hydraulic oil solidify or the viscosity of the hydraulic oil is too high because the surrounding temperature is too low.	Discharge the hydraulic oil, refilling qualified hydraulic oil, or change to oil used for low temperature.
	Over loading	Make sure the vehicle weight is not more than rated capacity.
Oil leakage of oil hose connector.	The connector is loose.	Screw down the oil hose connector.
	The connector is damaged.	Change the connector.
Oil leakage of the cylinder.	The hydraulic seal is damaged.	Change the seal or cylinder.
Motor does not work.	The motor is burned.	Change the motor after check and confirm that the power is correct.
	The voltage is too low.	Check and confirm that the voltage is the regulated voltage.
	The fuse is burned.	Change the fuse.
	The limit switch is damaged.	Change the limit switch.
Platform can't move down.	The platform is locked.	Check if the electromagnet works well, then if the wiring of electromagnet is loosen.
Platform move down slowly.	The viscosity of hydraulic oil is too high.	Change to the regulated hydraulic oil or consult local hydraulic manufacture.
	The plug valve of the power unit is blocked.	Clean the valve plug (pay attention to dust proofing)
	The oil hose or the hose connector is blocked.	Dredge the oil hose and hose connector.
Motor rotate reversely	Wrong wiring	Rewiring according to the circuit drawing

6.Packing List

Material No.	Description	Qty	Picture
112300010/20	Side Beam	2	
112700005	Electromagnet Bracket	2	
112700006	Wave Plate	15	
112700030	Ramp	1	
112700040	Backboard	1	
112700045	Platform Back Cover Plate	1	
112700060/70	Carriage	2	
112300083	Balance Chain Adjustable Screw	1	
112700084	Locking Pull Rod	2	
112700085/86	Torsional Spring	2	
112700087	Tension Spring	2	
112300090	Top Cover Plate On Post	2	
112700093	Control Box Bracket	1	
112700094	Power Pack Bracket	1	
112300100	Post	2	
112700120	Control Arm	1	
112300120	Cylinder Cover	1	
112700130	Front Support	2	
112300130	Cylinder Head	1	
112300140	Cylinder Bracket	1	

112700150	Platform Connection Rod	3	
112700160	Side Beam Packing Frame	2	
112300170	Side Beam Packing Pallet	1	
112300180	Post Packing Frame	2	
112300190	Post Packing Pallet	1	
	Electromagnet SA-2502	2	
	Limit Switch TZ-8108	1	
	Diffuse Reflection Photocell Sensor	1	
	Cylinder	1	
	Power Pack	1	
	Control Panel	1	
	Control Box	1	
	Hexagon Bolt M14*40	20	
	Screw Nut M14	24	
	Spring Washer M14	24	
	Flat Gasket M14	24	
	Hexagon Bolt M14*100	4	
	Hexagon Bolt M20*110	8	
	Hexagon Bolt M20*55	8	
	Screw Nut M20	16	
	Spring Washer M20	16	
	Flat Gasket M20	16	
	Hexagon Bolt M8*25	94	

	Screw Nut M8	82	
	Hexagon Socket Screw M6*10	4	
	Hexagon Bolt M10*55	2	
	Hexagon Bolt M10*30	8	
	Screw Nut M10	14	
	Spring Washer M10	8	
	Flat Gasket M10	8	
	Hexagon Bolt M12*45	12	
	Screw nut M12	12	
	Spring Washer M12	12	
	Flat Gasket M12	12	
	Bolted Anchor Bolt M12*160	18 Sets	
	Split Pin 1.6*20	8	
	Hexagon Bolt M6*35	2	
	Screw Nut M6	2	
	Cross Recessed Pan Head Screw M4*20	4	
	Screw Nut M4	4	
	Cross Recessed Pan Head Screw M4*10	8	
	Cross Recessed Pan Head Screw M5*10	4	
	Flat Gasket M5	4	
	Hexagon Bolt M5*35	2	
	Screw Nut M5	2	
	Hexagon Socket Screw M10*15	2	
	Screw Nut M18*1.5	4	
	Flat Gasket M18	2	
	Adjustable Fitting M14*1.5	1	
	Gasket M14*1.5	2	
	Straight Joint	1	
	Balance Chain (L=5318)	1	
	Lifting Chain (L=2838)	1	
	Articulated Bearing	2	
	Oil Hose	1	
	Sleeve Bearing	4	

7. Electrical and Hydraulic Diagrams

The wiring should follow the wire No. and make sure all the wires are connected to terminals with same No. in the control box.

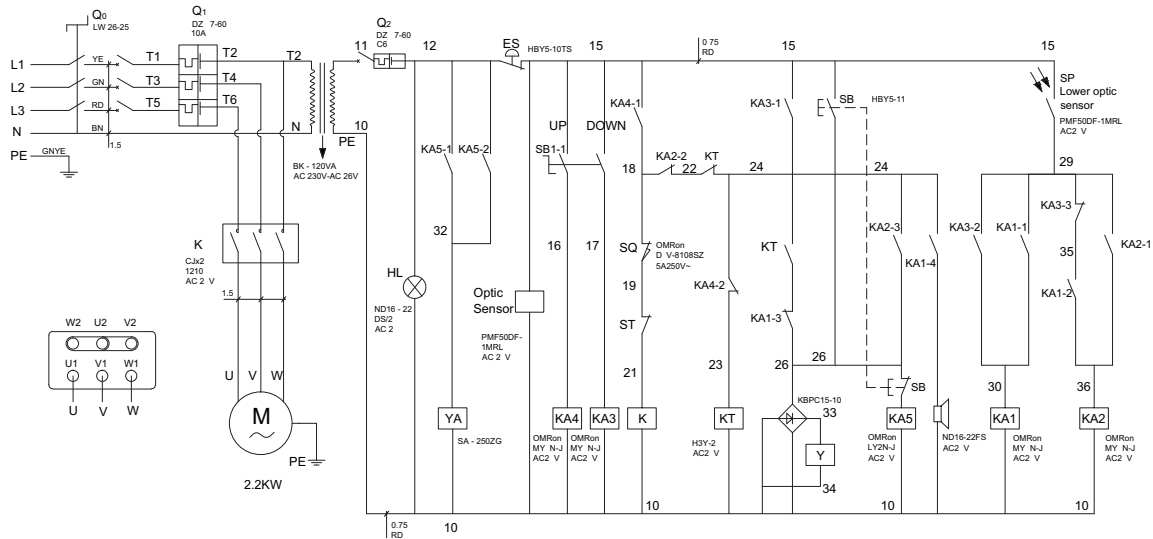


Chart (22) Electrical Diagram

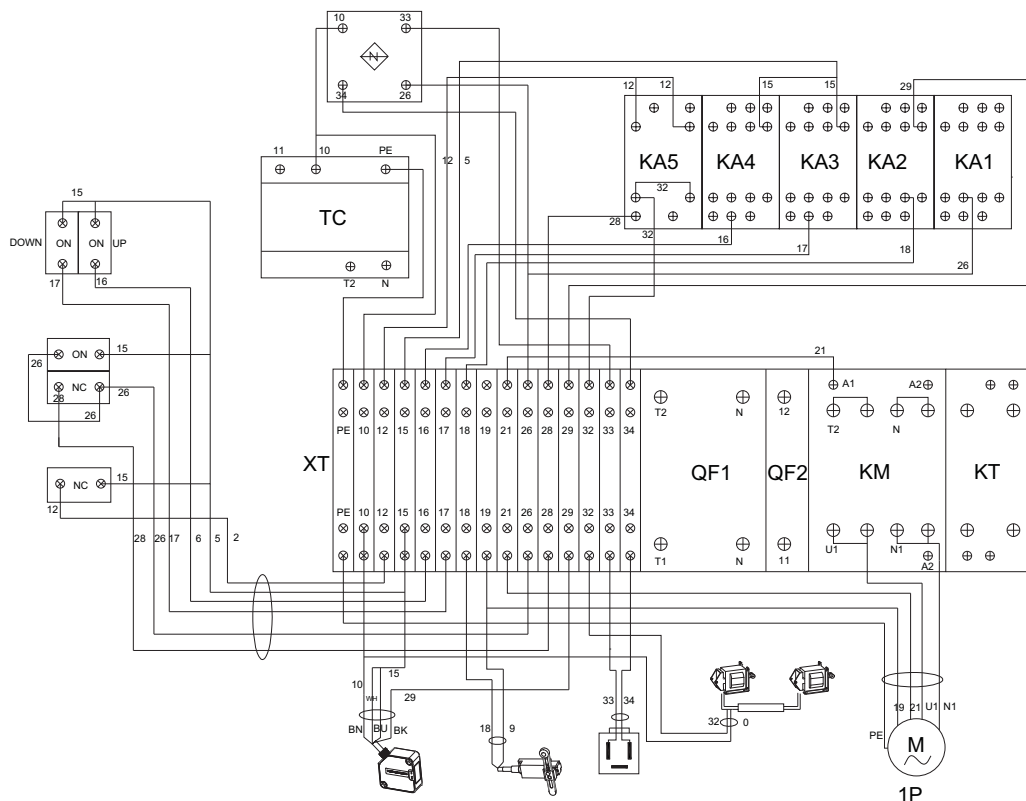


Chart (23) Wiring Diagram

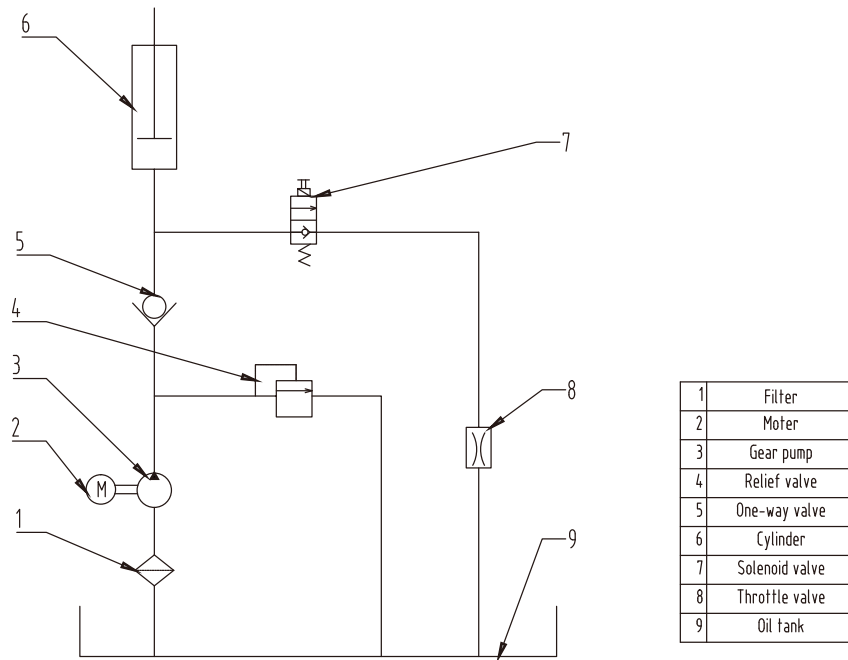


Chart (24) Hydraulic Diagram



Chart (25)Wiring in the Control box

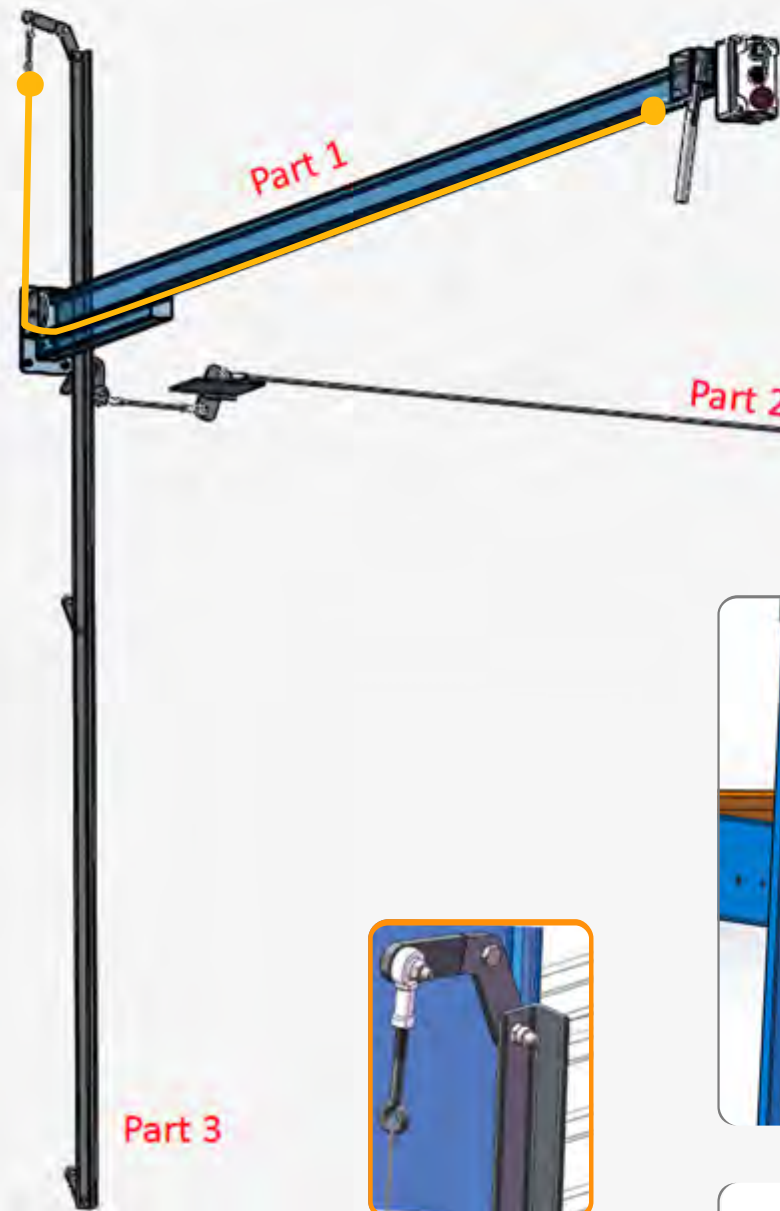
Autodesk



WIRE ROPE

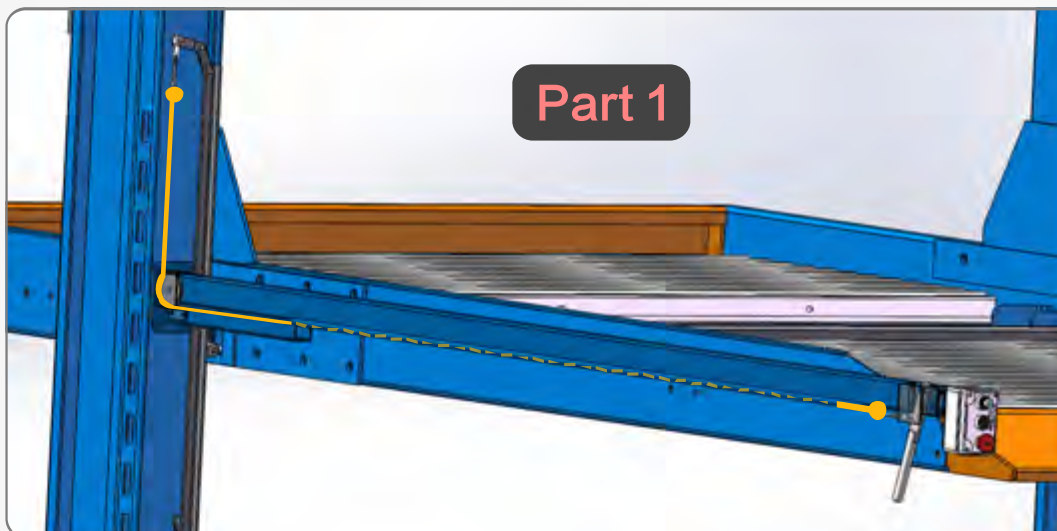


LOCKING SYSTEM

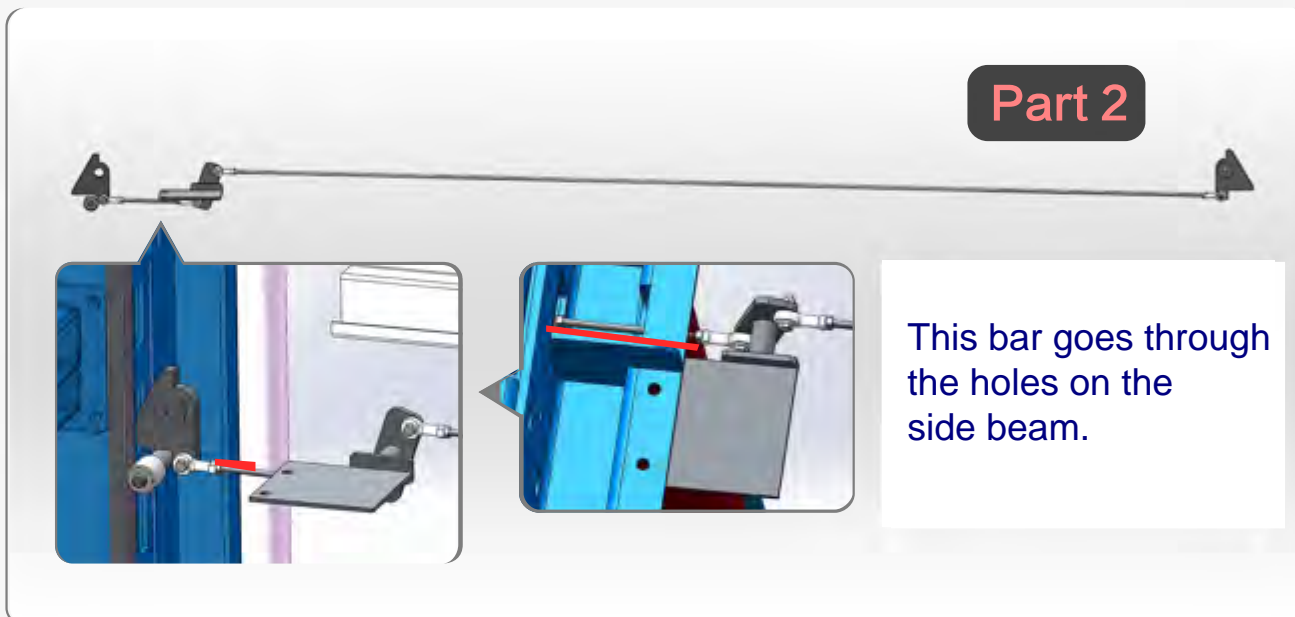


INSTALLED LOCKING SYSTEM

Part 1



Part 2



Part 3

