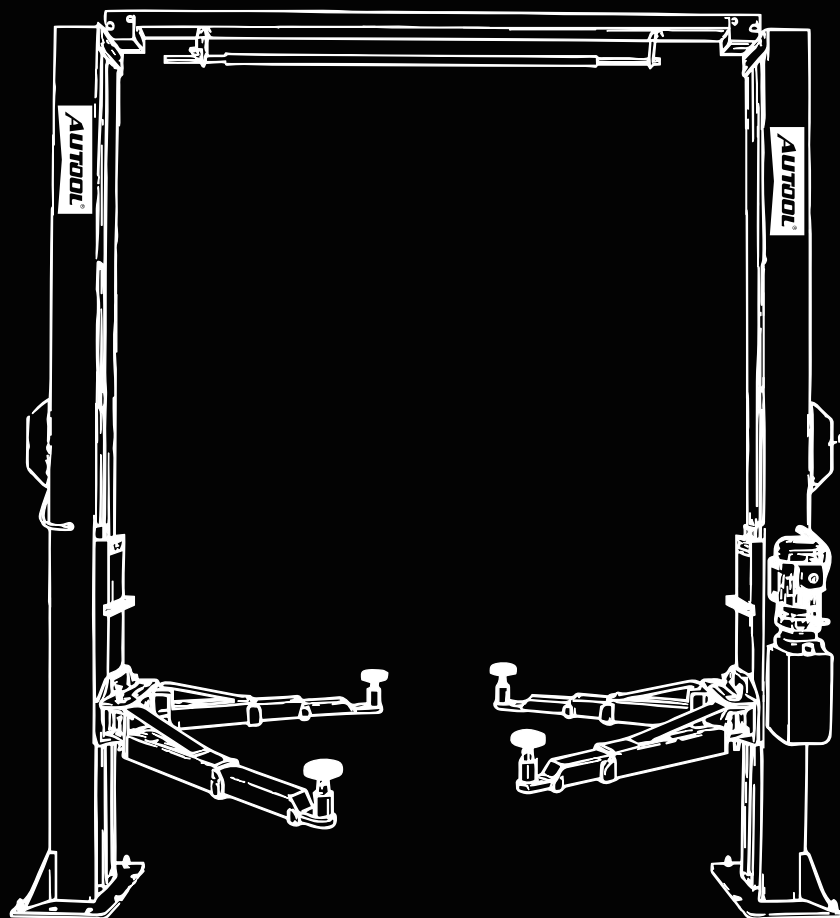


AUTOOL[®]

AUTOOL ATL-4.5D

EU Standard Gantry Lift

User Manual



www.autooltech.com

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SAFETY PRECAUTIONS

Warning



- ▶ This manual is an essential part of the product. Please read it carefully.
 - ▶ Keep this manual properly for future reference during maintenance.
 - ▶ Operate according to this manual and only use accessories recommended by the manufacturer.
 - ▶ This machine is intended for the specific purposes stated in the design; do not use it for any other purposes.
 - ▶ Important Statement: The warranty period for the complete machine is 3 years (excluding consumable parts). However, the company is not responsible for any consequences caused by improper installation, non-compliant grounding, overload, or incorrect operation.
-

Precautions



- ▶ This machine must be operated by trained and qualified personnel. Unauthorized modification of machine parts or usage outside the scope specified in the manual may cause direct or indirect damage to the machine.
- ▶ This machine is for indoor installation only. The installation environment should not be excessively humid, and installation on asphalt surfaces is strictly prohibited. The thickness of the concrete must meet the requirements.
- ▶ Do not place the lift in extreme temperature or humidity conditions. Avoid placing it near heating devices, faucets, humidifiers, or stoves.
- ▶ Keep the lift away from excessive dust, ammonia, alcohol, thinners, or spray adhesives.
- ▶ When the machine is operating, non-operators should stay away from it.
- ▶ Operators should ensure their hands and feet are kept away from the lift's moving parts.
- ▶ Perform daily inspections on the lift. Do not operate the lift if it is faulty or if any parts are damaged. When repairing or replacing parts, use original equipment parts.
- ▶ The lift should not be overloaded. The rated load capacity of the lift is marked on both the main body and the nameplate.
- ▶ Do not lift the vehicle when there are people inside it. During operation, customers and bystanders should stay out of the lift area.
- ▶ Keep the lift area free of obstacles, grease, oil, debris, and other impurities.
- ▶ Adjust the lift's support device to make contact with the manufacturer's recommended lifting points. Raise the lift and ensure that the support is in close contact with the vehicle. Lift the machine to the appropriate working height. Before starting work under the lifted vehicle, ensure that the lift's safety locks are engaged.

- ▶ For certain vehicles, the removal (or installation) of parts may cause a significant shift in the center of gravity, leading to vehicle instability. Safety supports should be used to maintain vehicle balance.
- ▶ Before the vehicle leaves the lifting area, position the lift's arms and supports to avoid obstruction during vehicle movement.
- ▶ Pay attention to regular maintenance, check all components for damage, inspect the machine's synchronization and the flexibility of moving parts.
- ▶ If any abnormalities are found, stop using the machine immediately and contact the dealer.
- ▶ Use appropriate equipment, tools, and safety protective measures, such as work clothing, safety shoes, etc.
- ▶ Pay special attention to the safety labels affixed to the machine.
- ▶ During the operation of the lift, operators must stay out of the danger area (the range of the lift's moving parts) and must not touch any moving parts with hands or other body parts.
- ▶ Pay special attention not to remove or disable the machine's safety devices.
- ▶ Do not disassemble any hydraulic components when the equipment's pressure system has not been fully depressurized.
- ▶ After work is completed, lower the machine to its minimum height and turn off the power.
- ▶ The hydraulic oil used in this machine is N32 or N46 mechanical oil. Be sure to use it within the safe range.
- ▶ When the machine is not used for a long time, the user should: a. cut off the power; b. drain the hydraulic oil; c. lubricate moving parts that may be damaged by dust or dryness.
- ▶ Note: The lift is a high-risk piece of equipment. Improper installation or operation, or unauthorized modification of mechanical parts, may result in personal injury or death. Please read the manual carefully and operate strictly according to the instructions! The safety warnings and instructions in this manual do not cover every possible situation. Operators must possess sufficient safety knowledge.
- ▶ **AUTOOL is committed to continuously improving product quality and updating technical specifications. Changes may be made without prior notice.**



- ▶ Before using the lift, carefully read the user manual and the installation and commissioning guide.



- ▶ Proper maintenance and inspection are required to ensure safe operation.



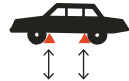
- ▶ Do not operate a damaged lift.



- ▶ The lift may only be operated by trained personnel.



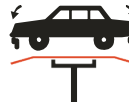
- ▶ Only authorized personnel are allowed in the lift area.



- ▶ The vehicle manufacturer's recommended lifting points should be used.



- ▶ Safety supports must always be used when removing or installing heavy components.



- ▶ Using auxiliary supports will reduce the lift's load capacity.



- ▶ When there is a risk of vehicle tipping, the surrounding area should be kept clear.



- ▶ The vehicle's center of gravity must be between the two support arms.



- ▶ When raising or lowering the vehicle, ensure the area around the lift is clear of obstacles.



- ▶ Avoid excessive rocking of the vehicle while it is on the lift.



- ▶ Single-side lifting of the vehicle is strictly prohibited.



- ▶ Keep feet away from the lift while it is lowering.



- ▶ Do not stand under the support arms or lifting platform while the lift is raising or lowering a load.



- ▶ The operator is not allowed to stay under the vehicle being serviced during operation.



- ▶ The operator and standby personnel should not stay too close to the machine but should remain in the safety area.



- ▶ Only trained technicians are permitted to operate the lift.



- ▶ When the lift is lowering, no auxiliary stand or wooden stick should be used.



- ▶ Do not shake the vehicle forcefully while it is still resting on the lift arms.



- ▶ Take care of your feet when the equipment is lifting or lowering.



- ▶ It is not allowed to lift or lower just one side of the track.



- ▶ Do not alter the safety system of the lift.



- ▶ Be cautious of your feet when the lift is lowering.



- ▶ Ensure the lifting weight is balanced on both tracks to avoid tilting or sliding.



- ▶ Keep the equipment groove clean.



- ▶ Please read the operation manual carefully before operation.



- ▶ Keep the vehicle being serviced parallel to the lifting tracks.



- ▶ There is high voltage in the control box.

- ▶ If the warnings are ignored, not only can the equipment encounter issues, but it can also pose a danger to the operator.
- ▶ Regular equipment maintenance helps ensure long service life and operator safety.

PRODUCT FEATURES AND PARAMETERS

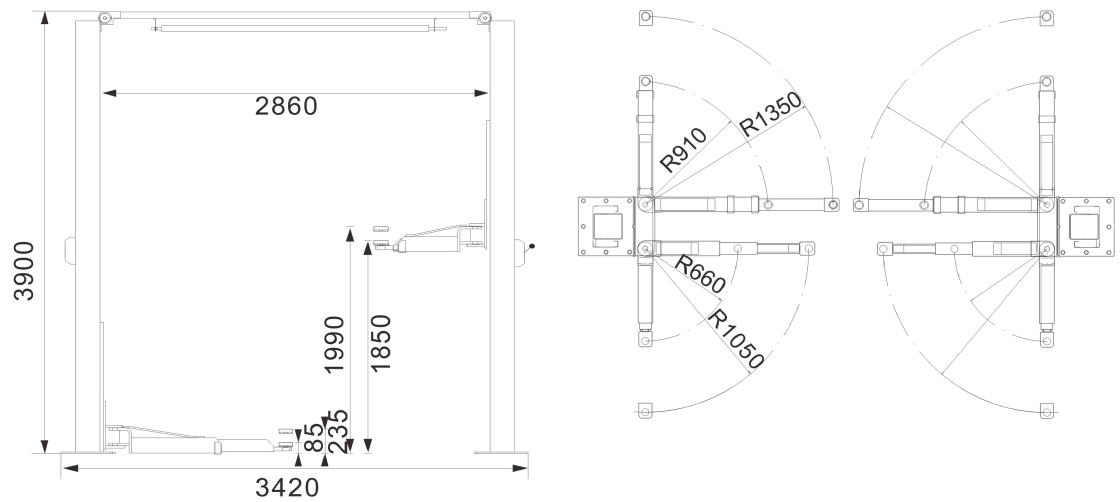
Product features

- 3 sections of bracket arms, suitable for a wide range of models.
- Unilateral manual unlocking, safe and reliable.
- Tray height adjusted by thread, with the adjustable height of 70mm Minimum lifting height of 95mm, suitable for low riders.
- Aluminum alloy motor with low noise and fast heat dissipation.

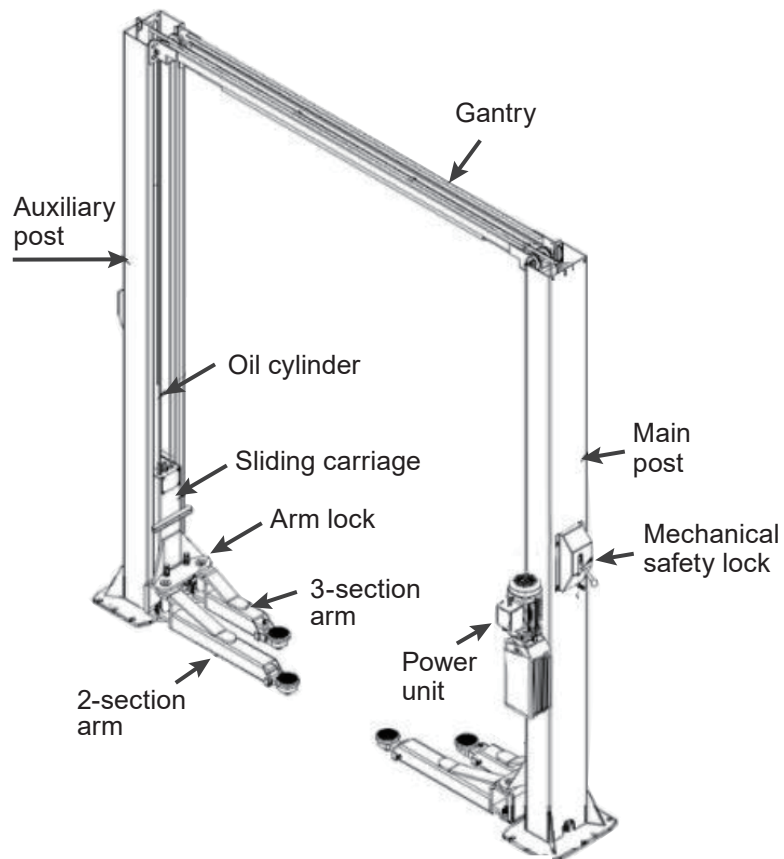
Technical parameters

Rated lifting capacity	4500kg
Inner width of the post	2860mm
Height of the lift	3900mm
Minimum lifting height	95mm
Tray adjustment height	70mm
Maximum lifting height	1990mm
Telescopic range of 3-section bracket arm	660mm~1050mm
Telescopic range of 2-section bracket arm	910mm~1350mm
Motor parameters	3PH, 380VAC, 2.2kW, motor with an aluminum alloy housing
	1PH, 220VAC, 2.2kW, motor with an aluminum alloy housing
Type of hydraulic oil	ISO 46# anti-wear hydraulic oil

**Diagram of product
(unit: mm)**



**Description
of main
components**



- Post: Basic component, carrying sliding carriage, cylinder and other drive devices.
- Sliding carriage: Lifting component, installed inside the post, sliding up and down.
- Bracket arm: Lifting component, installed together with the sliding carriage, having contact with the support point of the vehicle to lift the vehicle.
- Arm lock: Safety component, locking the bracket arm to prevent it from rotation.

- Mechanical lock: Safety component. When the hydraulic oil is drained, the safety block pushes the safety strip to keep the sliding carriage still.
- Cylinder: Drive component. When the hydraulic station pumps the high pressure oil into the lower chamber of the cylinder, the piston rod rises and drives the sliding carriage to rise.
- Power unit: Power component. The motor drives the pump to suck oil via the filter strainer and pump high pressure oil.
- Gantry: Bridging component. The balance wire rope, oil pipe, and safety rope are arranged from the main post to the auxiliary post by way of the gantry, which also reduces the inward inclination of the two posts.
- Control cabinet: 24V control unit.

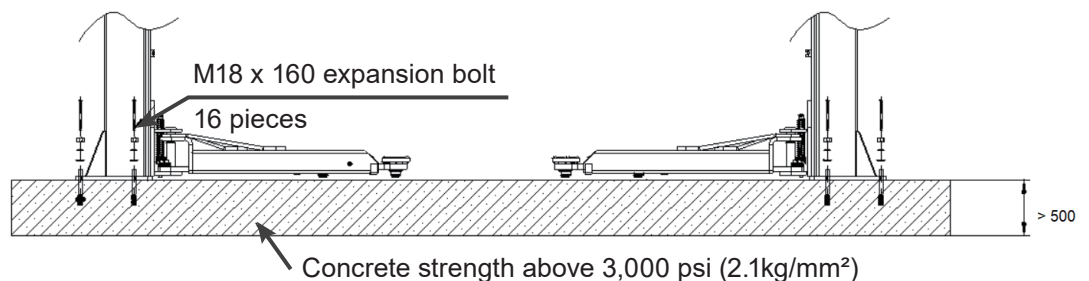
PREPARATION FOR INSTALLATION

Unpacking

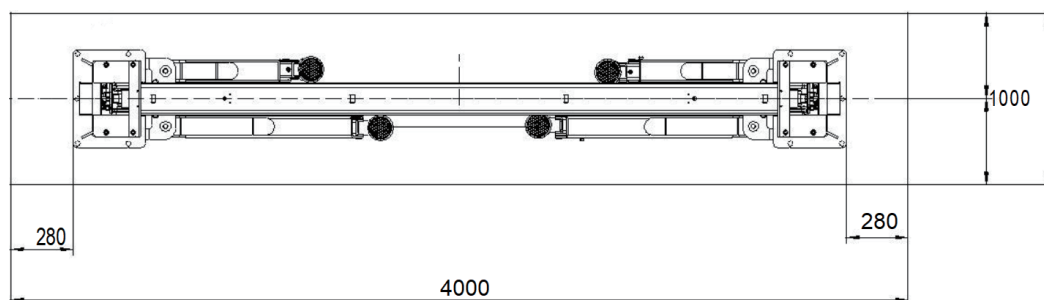
- Open the packing case, remove the surrounding packing materials, inspect the machine for damage during transportation, and inspect the main components and accessories for completeness as per the packing list. Keep packing materials away from children so as not to pose any danger, and properly dispose them if they may cause pollution.

Foundation

- The user has a responsibility to ensure the stability of the foundation. The concrete shall have a minimum thickness of 500mm and a minimum strength of 21MPa, and shall be properly prepared 15 days prior to the installation date. No other foundation equipment is allowed within 350mm of the expansion bolt to avoid degrading the foundation strength. The user has a responsibility to provide safe power, air source, and such connecting components as power wire.



- Motor position, the place to which the power wire extends.
- 380V three-phase four-wire.
- 380V / 2.2kW / 50Hz.

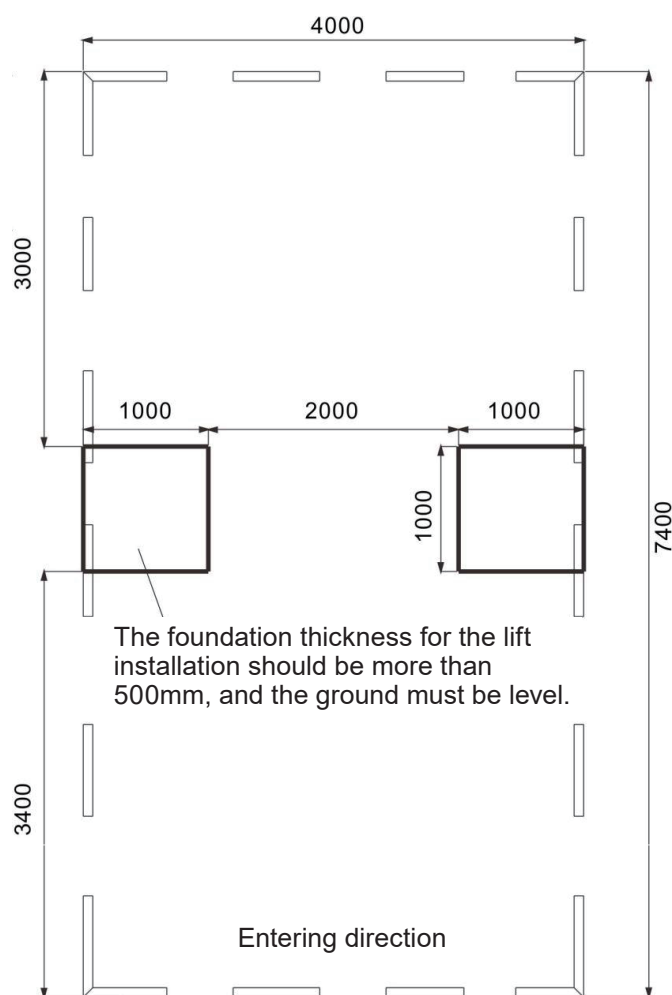


Tools

- 5m tape
- Chalk
- Proper impact drill and bit (expansion bolt M18X160mm)
- Hammer
- 1.2m spirit level
- Crowbar
- Proper screwdriver

INSTALLATION INSTRUCTIONS

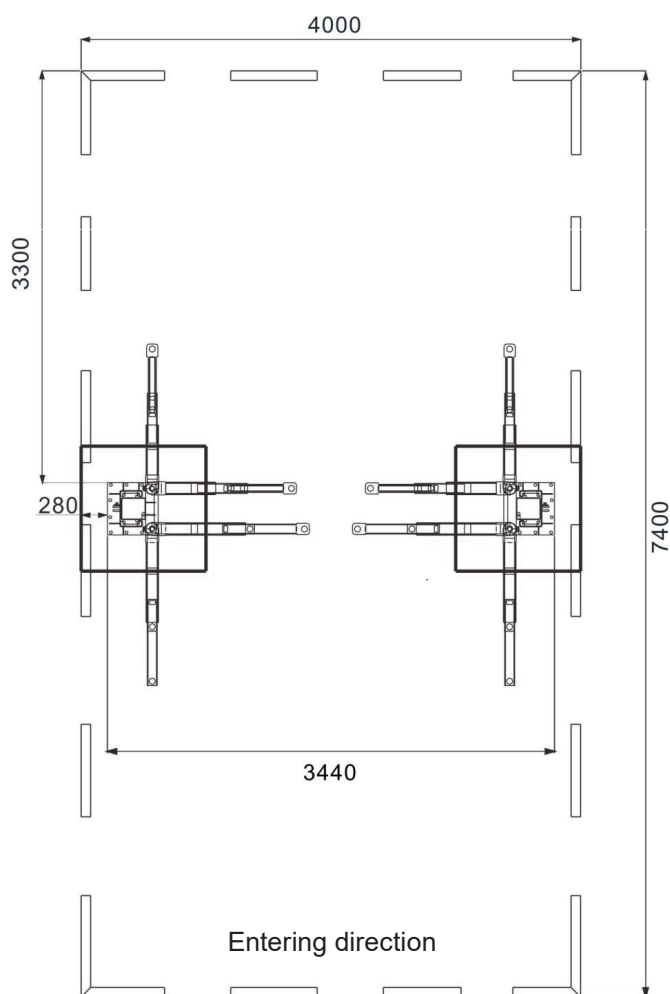
- Determine the mounting position, which shall be close to wall and power as much as possible.
- Thoroughly clean the mounting position of the lift, which shall be free from oil stains.
- The dimension diagram of mounting space of the product is given below for reference only.
- Foundation diagram of the product:
 - 220V: Incoming power wire 4mm², Ground wire 2.5mm²
 - 380V: Incoming power wire 2.5mm², Ground wire 1.5mm²



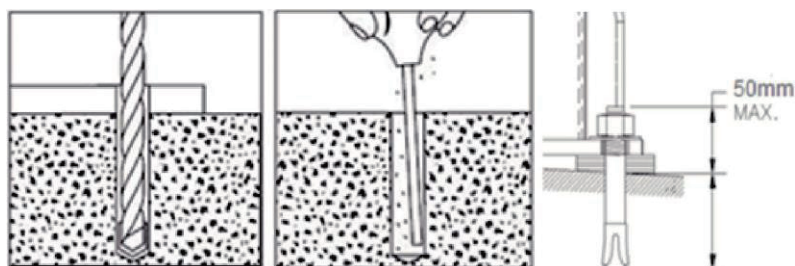
NOTE

- The foundation shall be reinforced with steel, and have a thickness greater than 500mm and a compressive strength not lower than 25MPa. The grade of the foundation concrete shall be greater than C25.
- The lift station is recommended to have a length of 7,400mm.

- Schematic diagram:



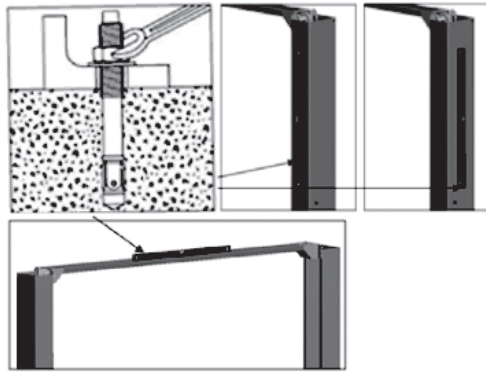
- Properly position the main post, drill holes with the impact drill, remove the dust in the bolt hole with a vacuum cleaner, and hammer the expansion bolt into the hole. The length of the expansion bolt protruding from the ground shall not exceed 50mm, and the nut shall not be tightened.



- Fix the auxiliary post by reference to the mounting method of main post, and check that the difference between the diagonal distances of the two post bottom plates is not more than 3mm.
- Prepare the ladder cart for the two posts respectively, fasten both sides of the gantry with slings, lift the gantry, and then install the connecting bolts.

NOTE

- ▶ The irrelevant personnel shall be kept away from the lift during the installation of gantry.
-
- Tighten the expansion bolts (reference torque: 203N.m), and meanwhile check that the post is vertical with a spirit level. Place the gasket at the bottom of the post to level the post if necessary. Check that the upper surface of the gantry is level with a spirit level.



NOTE

- ▶ If the tightening torque of expansion bolt cannot reach 203N.m, the strength of foundation shall be rechecked.

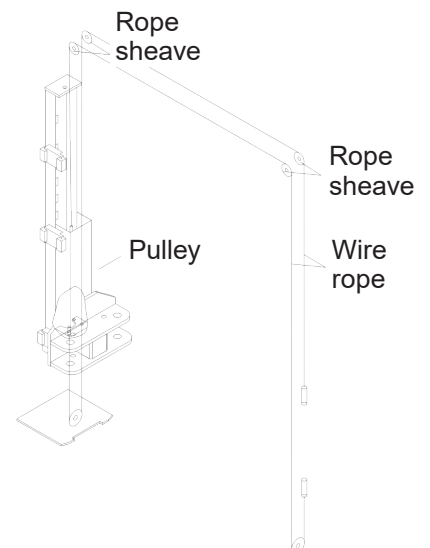
Install the roof collision-prevention limit rod and connect the limit switch.

Installation of balance wire rope

- Make sure that the left and right sliding carriages are at the first safety position, and then install the balance wire rope as per the track shown in the figure. Do not tighten the nut temporarily as the tension of two wire ropes will be adjusted for synchronization later on.

NOTE

- ▶ The screw rod for the left or right wire rope must be tightened. Make sure that the left & right sliding carriages are locked at the same height during adjustment.



Installation of safety rope

- Install the safety wheel and keep the left and right sliding carriage at the same safety position, and then install the wire rope as shown in the figure. Adjust the tension of the safety rope to ensure the left and right safety blocks can be simultaneously opened and locked.

Installation of bracket arm

- Install four bracket arms into the sliding carriage through the pin, with three-section straight arms at the front end and two-section straight arms at the back end.



NOTE

- The three-section bracket arms shall be installed at the front end and each arm is required to be installed with a circlip.

Installation of power unit

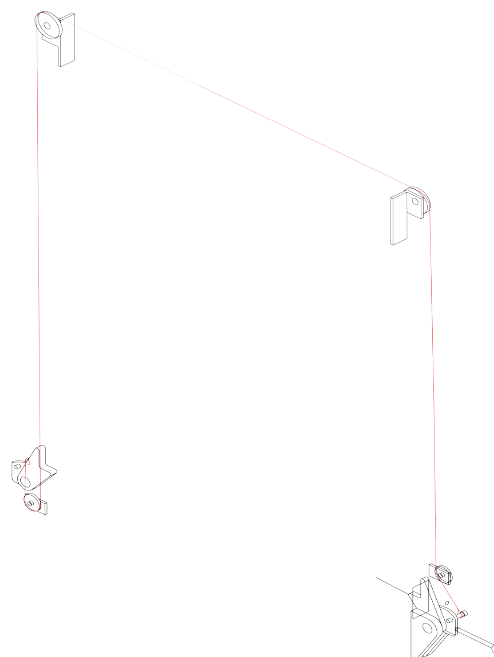
- Install the power unit on the motor board of the main post and fix it with bolts and nuts. Install the limit switch properly and connect the wires.

Connection of hydraulic system

- Unscrew the hydraulic tank cap and add 10L 46# anti-wear hydraulic oil. (46# anti-wear hydraulic oil is preferred; 32# anti-wear hydraulic oil is preferred at a temperature below -10°C)
- Connect the hydraulic joint and connect the oil pipe to the oil outlet joint of the main and auxiliary cylinders.

Installation of unlocking wire rope

- The installation diagram of the unlocking wire rope is shown below:





NOTE

- ▶ Adjust the wire rope until the locking status of the safety locks on the main and auxiliary posts are consistent.
- ▶ Add general lithium base grease (GB7324-87) to the gap between the safety lock and the shaft. Ensure that the safety lock is safe and reliable during normal use. If the safety lock cannot be reset, stop the machine immediately and resume operation after troubleshooting.
- ▶ The safety wire rope shall not be brought into contact with any stationary or moving parts in the post, except for the two fixed ends and the rope sheave.

Adjustment for no-load test

- Clean the site and check that there is no oil stain on the ground and the lift is unloaded.
- Power on the lift, press UP button to lift the sliding carriage and then stop at any position. Then, press the oil return handle to lower the left and right sliding carriage to the same safety position.
- Tighten the balance wire rope nut to keep the tension of the two balance wire ropes basically the same.
- Press the UP button to lift the sliding carriage until it is out of the safety position, and then pull the safety handle with the left hand and press the oil return handle with the right hand to lower the sliding carriage to the lowest position.
- Press the UP button to lift the sliding carriage continuously (if the limit switch is triggered when the sliding carriage is at any position, the motor will stop). After the limit position is reached, the relief valve will open, the oil will return to the hydraulic system, and the sliding carriage will stop rising. Observe the synchronization of the left and right sliding carriage bracket arms during this process, and continue to adjust the tightness of the balance wire rope nut if significant difference exists.
- Install the door collision-prevention rubber pad.

Adjustment for load test

- Fully put the four bracket arms aside to ensure that the track is barrier-free.
- Drive to the middle position of the lift, and keep the length ratio of the front part to the rear part of the vehicle (for those equipped with front engine) around 2:3 when the connecting line of the posts is taken as a reference. When the tonnage of the vehicle exceeds 3.5T, the vehicle shall be moved backward appropriately.
- Rotate the bracket arm tray to the support point of the chassis.

- Press the UP button to lift the bracket arms and ensure the 4 bracket arm locks are completely engaged.
- Continue to inch it up until a rubber tray has contact with the support point of the chassis, and then rotate other rubber trays counterclockwise to bring them into contact with the support point.
- Press the UP button to lift the vehicle slowly until all tires are off the ground. Gently push the rear of the vehicle to check that the vehicle is fixed firmly and the bracket arm locks are completely engaged.
- Press the UP button to continue lifting the vehicle and observe if the vehicle is stable during this process. Stop lifting the vehicle when the sliding carriage rises to the third or fourth safety position, and press the oil return handle, after which the oil will return to the hydraulic station and the sliding carriage will be locked. Observe if the vehicle is stable. (adjust the balance wire rope nut if there is an obvious height difference between the left side and right side of the vehicle).
- Continue to lift the vehicle until it rises to the highest safety position, and then press the oil return handle, after which the oil will return to the hydraulic station and the sliding carriage will be locked. Observe if the lift is stable without vibration.
- Inch the sliding carriage up until it is out of the safety position, and then pull the safety handle with the left hand and press the oil return handle with the right hand. after which the vehicle will descend.
- Release the safety handle when the sliding carriage is at any position in the middle, after which the safety lock will rebound automatically, the sliding carriage will be locked and stop descending.
- Inch the sliding carriage up until it is out of the safety position, pull the safety handle with the left hand and press the oil return handle with the right hand, and then release the safety handle when the sliding carriage is at any position in the middle, after which the safety lock will rebound automatically, the sliding carriage will be locked and stop descending. Repeat these operations for more than three times to verify the safety and reliability of the mechanical safety lock.
- While lifting the vehicle, check for abnormal sound and friction or interference between the wire rope and other components.

MAINTENANCE INSTRUCTIONS

Daily maintenance

- Inspect all hydraulic joints, oil pipes, and cylinders for leakage.
 - Inspect all electric wires for damage.
 - Inspect all moving parts for excessive wear.
 - Remove the oil stains on the rubber tray and inspect the rubber tray for excessive wear.
-

Maintenance after every 2 months

- Replace the grease in the post slide way.
 - Replace the grease on the bracket arm pin.
 - Inspect and tighten the nut of expansion bolt.
-

Maintenance after every 6 months

- Replace the grease on the chain and wire rope.
 - Adjust the balance wire rope and safety rope.
 - Inspect the wire rope for burrs.
-

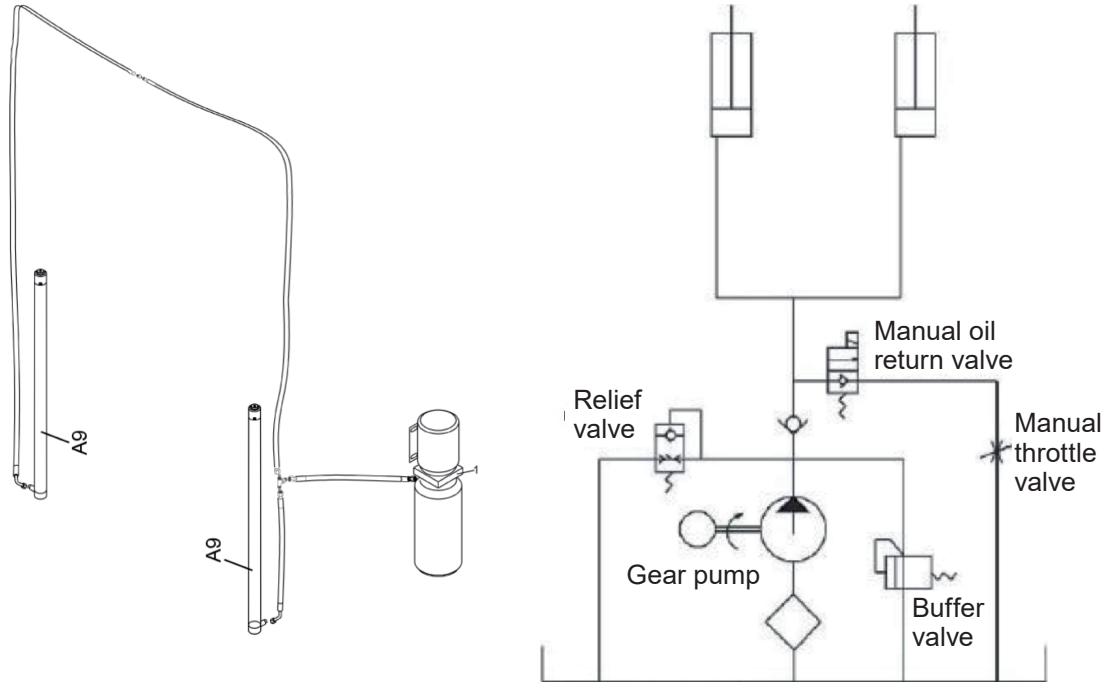
Maintenance after every 2 years

- Replace the hydraulic oil.

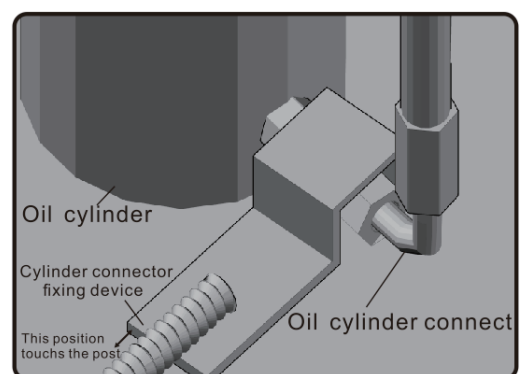
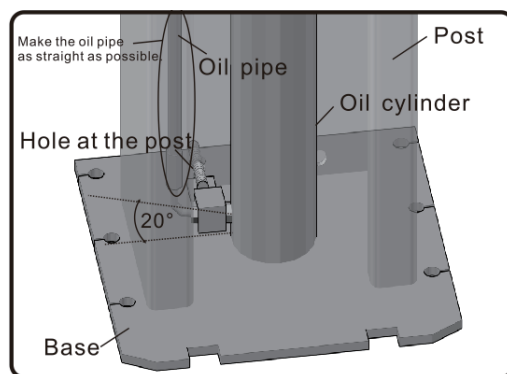
COMMON FAULTS

S/N	Common Faults	Solution
1	Button fails to work.	Replace the button.
2	Contactor fails to operate after energization.	Replace the contactor.
3	The contactor fails to be energized and operate.	Inspect the button and limit switch.
4	Oil leakage occurs at the connection of hydraulic system.	Replace the joint or oil pipe.
5	Oil leakage occurs in the cylinder.	Replace the sealing ring, or replace the cylinder in the worse case.
6	The bracket arm teeth do not engage well.	Adjust the position of the bracket arm teeth.
7	Safety rope gets loose.	Adjust the latch to tighten the safety rope.
8	Severe burrs appear on the balance wire rope.	Replace the wire rope.
9	Left and right sliding carriage fails to fall to the same safety position.	Adjust the balance wire rope nut to synchronize the sliding carriage.
10	Automatic oil return volume drops.	Replace the oil return valve or lowering flow regulating valve.
11	No oil is pumped out when the three-phase motor is working.	The motor rotates reversely. Replace two adjacent power phase wires. (commonly known as live wires.)
12	Abnormal sound is heard in the three-phase motor, or the motor is powerless.	Phase loss occurs in the motor, thus inspect the incoming power wire 380VAC with a multimeter.
13	The lowering speed is too low when the lift is loaded.	Inspect if the oil return valve and lowering flow regulating valve are blocked by foreign matters.
14	The lift shakes during operation.	Apply grease to the post slide way; inspect if the output pressure of the hydraulic station is stable enough; inspect the cylinder piston rod for climbing. (Replace it if any.)

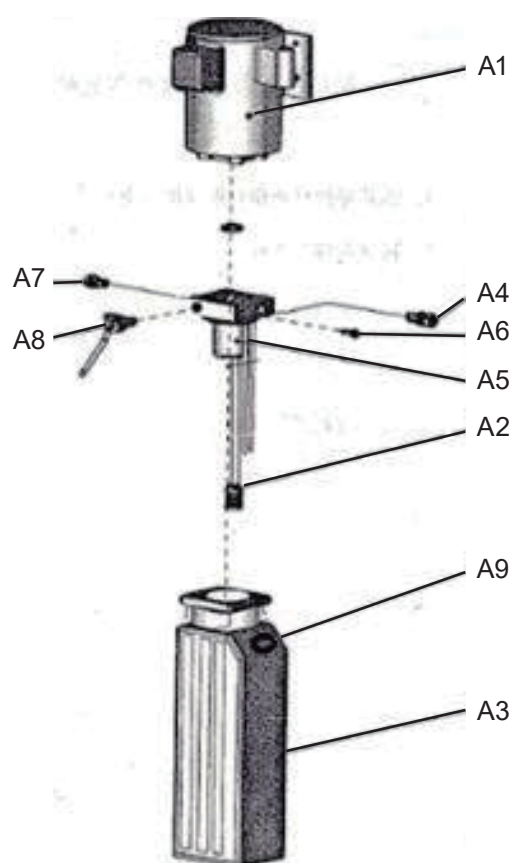
HYDRAULIC SYSTEM DIAGRAM AND OIL PIPE ROUTING DIAGRAM



- Manual oil return valve: controlling the oil circuit for lowering.
- Manual throttle valve: adjusting the speed of lowering.
- Relief valve: controlling the maximum pressure.
- Gear pump: supplying oil pressure.
- Buffer valve: reducing the motor load when the motor starts.



- Cylinder connector should be put toward the inside of the post so that the middle of the carrier would not touch the cylinder connector.



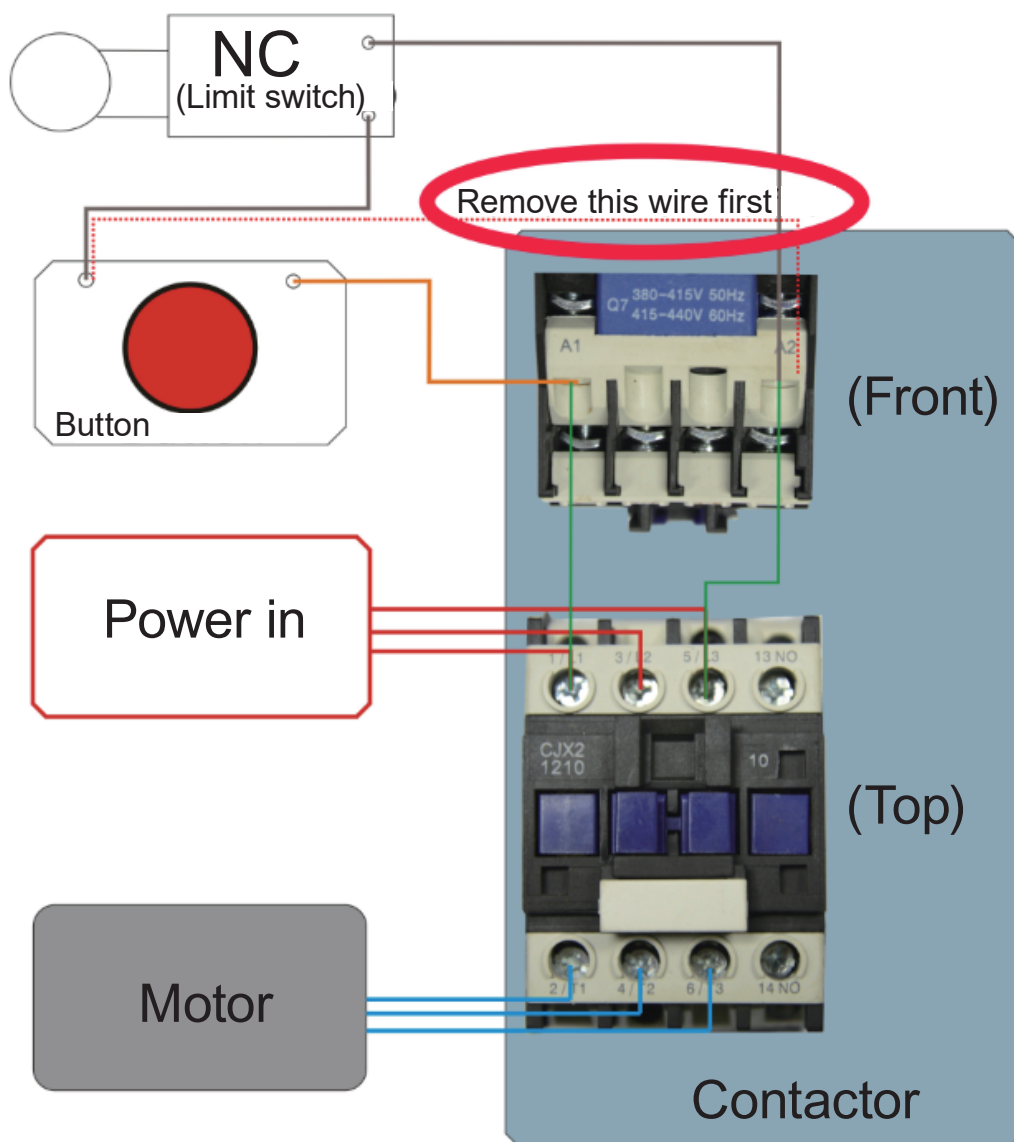
S/N	Name
A1	1PH, 220VAC, or 3PH, 380VAC motor
A2	Suction filter
A3	Oil tank
A4	Relief valve
A5	Hydraulic pump
A6	Throttle valve
A7	Check valve
A8	Oil return valve
A9	Oil tank cap

ELECTRICAL SCHEMATIC DIAGRAM

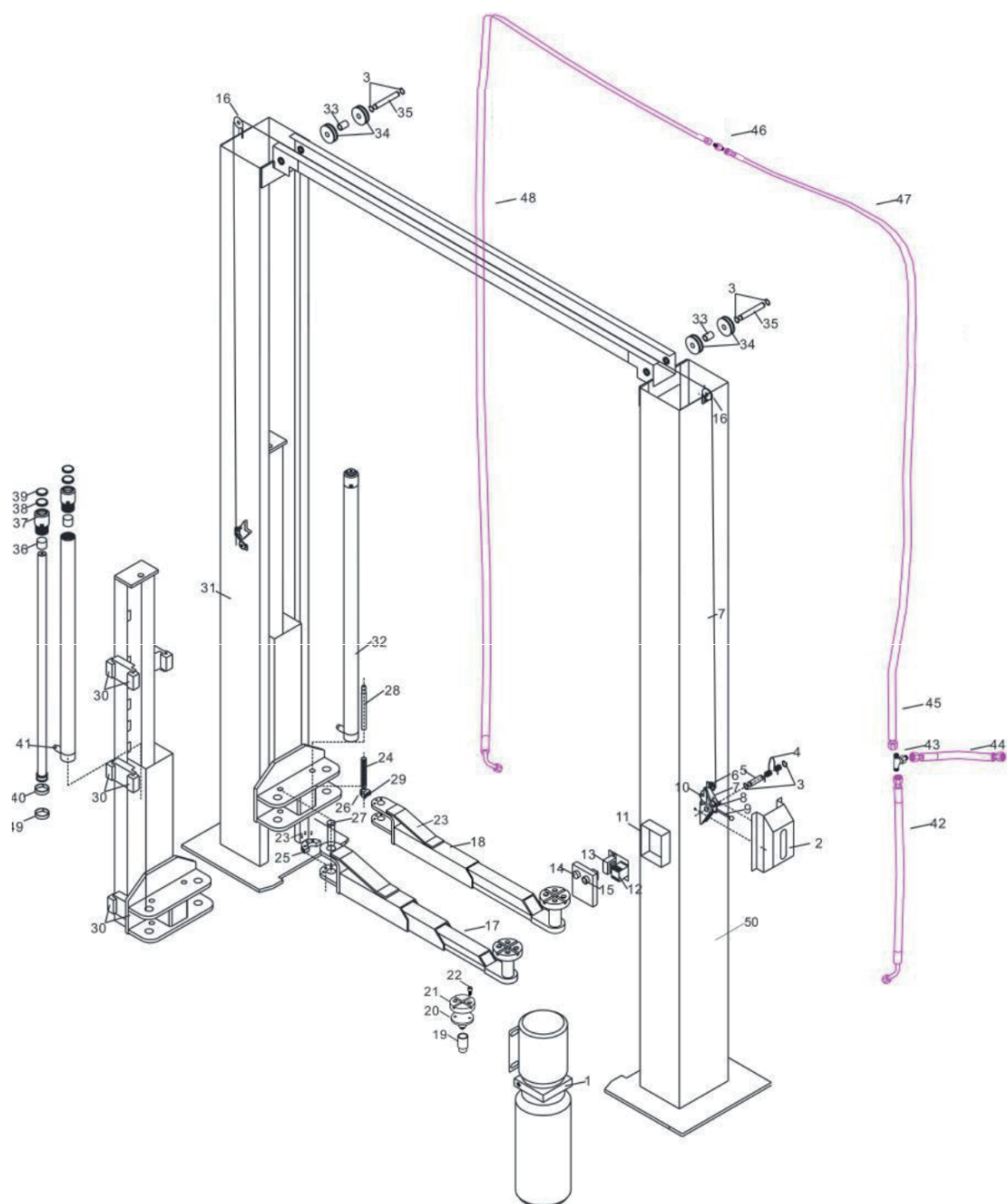
Control box connection

⚠ NOTE

► high voltage!



EXPLODED VIEWS



S/N	Name	S/N	Name
1	Pump unit	26	Cotter pin of small bracket arm lock
2	Safety cover	27	Bracket arm shaft
3	Safety shaft circlip	28	Shaft for small bracket arm lock
4	Safety spring	29	Small safety gear rack
5	Safety shaft	30	Sliding block for pulley
6	Small safety wheel	31	Auxiliary post
7	Thin safety wire rope	32	Oil cylinder
8	Safety conductive pad	33	Balance wire rope guide wheel
9	Safety handle	34	Cross beam wheel sleeve
10	Safety hook	35	Cross beam end shaft
11	Control cabinet casing (Optional)	36	Guide sleeve
12	Contactor (Optional)	37	Oil cylinder nut
13	Transformer (Optional)	38	Dust seal
14	Indicator (Optional)	39	Guide ring
15	Button (Optional)	40	Cylinder piston guide ring
16	Thin safety wire rope guide wheel frame	41	Oil cylinder connector
17	3-section bracket arm	42	Oil pipe 1
18	2-section bracket arm	43	Tee joint
19	Extended cylinder	44	Oil pipe 2
20	Three-section rotary tray	45	Oil pipe 3
21	Tray rubber pad	46	Through joint
22	Tray screw	47	Oil pipe 4
23	Set screw for big bracket arm lock	48	Oil pipe 5
24	Bracket arm lock spring	49	Cylinder piston sealing ring
25	Big bracket arm lock	50	Main post

MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.

- Maintenance** To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:
- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
 - Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
 - Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable. Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time.
 - Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
 - When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

WARRANTY

From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

Disclaimer

- All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

RETURN & EXCHANGE SERVICE

Return & Exchange

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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YouTube	https://www.youtube.com/c/autooltech

EU DECLARATION OF CONFORMITY

We as the manufacturer declare that the designated product:

Description: Vehicle Lift, Electric (Model ALT-4.5D)

complies with the requirements of the:

CE Machinery Directive 2006/42/EC

RoHS Directive 2011/65/EU + 2015/863 + 2017/2102

Applied Standards:

EN 60204-1:2018, EN ISO 12100:2010

IEC 62321-3-1:2013, IEC 62321-5-2013, IEC 62321-5-2013, IEC 62321-4-2013+A1:2017,

IEC 62321-7-2:2017, IEC 62321-7-1:2015, IEC 62321-6:2015, IEC 62321-8:2017

Certificate No.: ICR/VC/HS2601137 (ALT-4.5D), HS202601232168, HS202601232166

Test Report No.: HS202601232168-1ER, HS202601232166-1ER



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