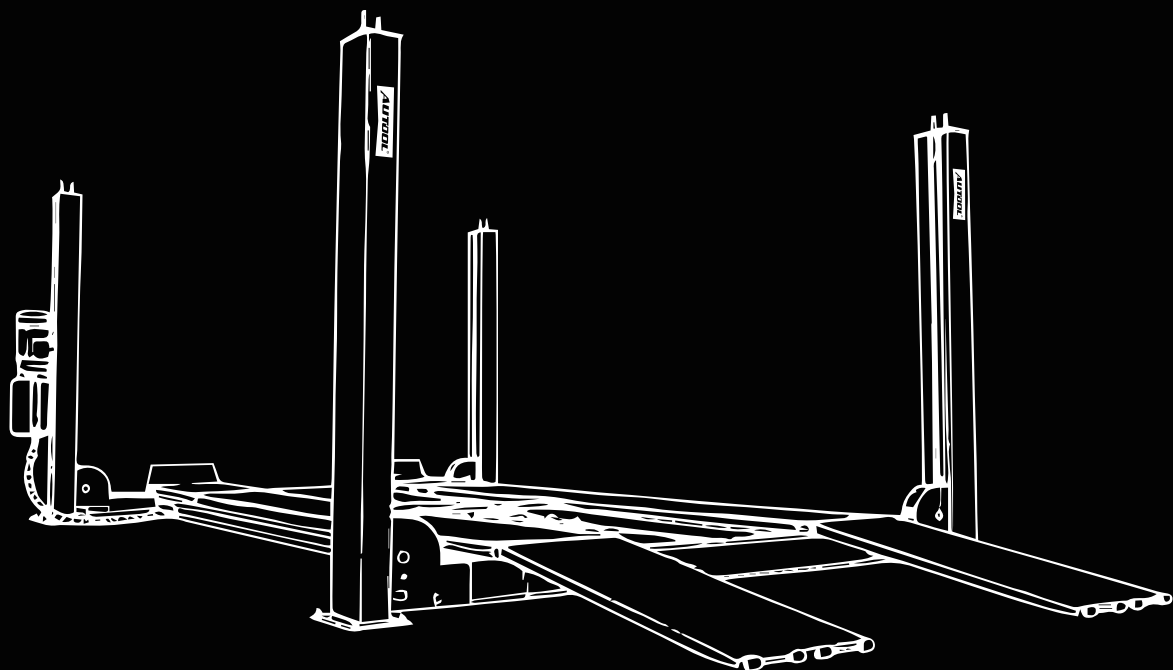


AUTOOL®

AUTOOL ATL-4.5F

Four-Post 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.



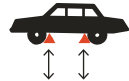
- ▶ Do not operate a damaged lift.



- ▶ 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 INTRODUCTION

Use and characteristics

This machine is used for lifting cars to proper height automatically for maintenance. It provides a good day lighting, convenient, safe and comfortable work environment for car maintain. It is beneficial to improve work efficiency and the quality of car repair. What's more, it is also the indispensable equipment for car repair, the features of it are as follows:

- Workbench lifting adopts hydraulic transmission. It is easy for operation and running stably with low noise.
- Electrical and hydraulic system is equipped with overload protection device. It is safe, reliable and easy for maintenance.
- Working space is large. Therefore, we can replace the engine, transmission and do other repair operations between beams.
- This machine can be install vice beam (optional) and vice girder (optional). It is convenient for changing wheels in blend line operation.

Technical specifications

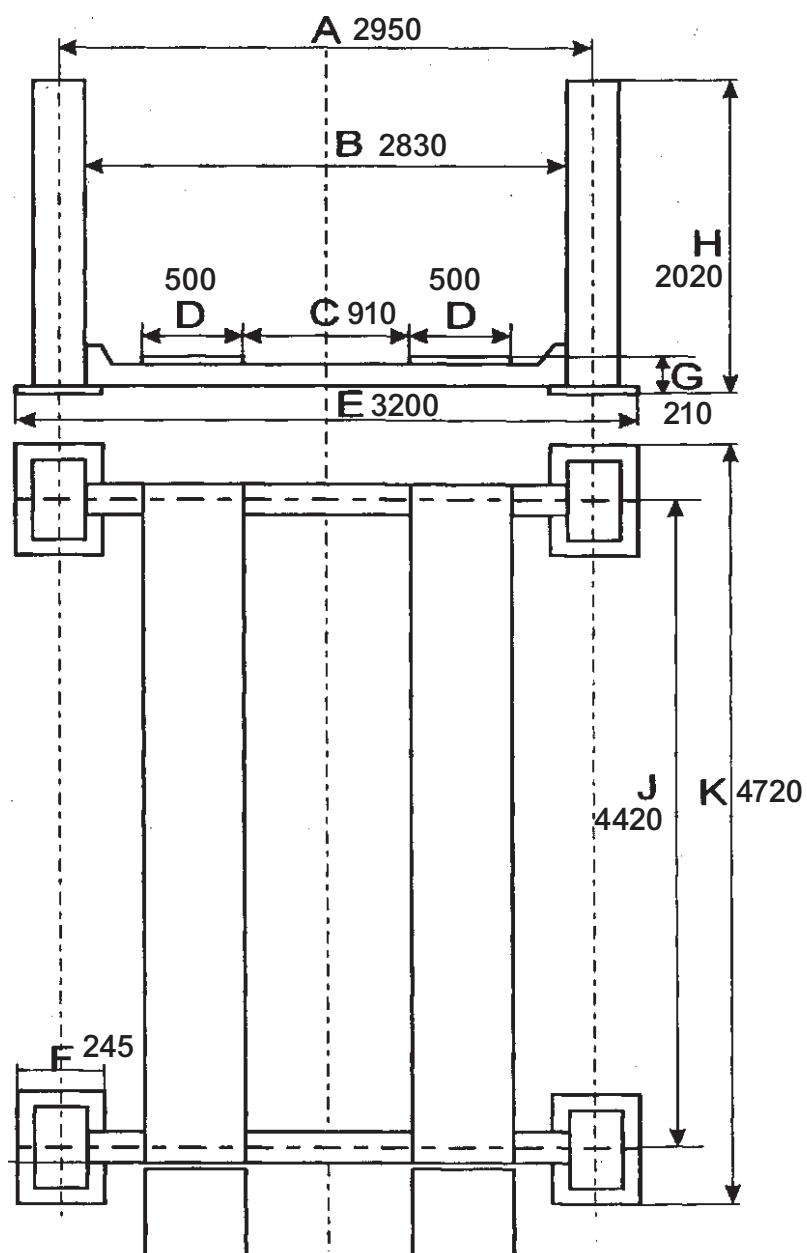
Rated Weight	4500kg
Rated Height	1650mm
The Whole Rise time	≤60s
The Whole Fall time	≥20s
Power	380V/220V 1.5kW 50Hz
Self Weight	1500kg
Hydraulic Oil	14 Litres 46# antiwear hydraulic oil



NOTE

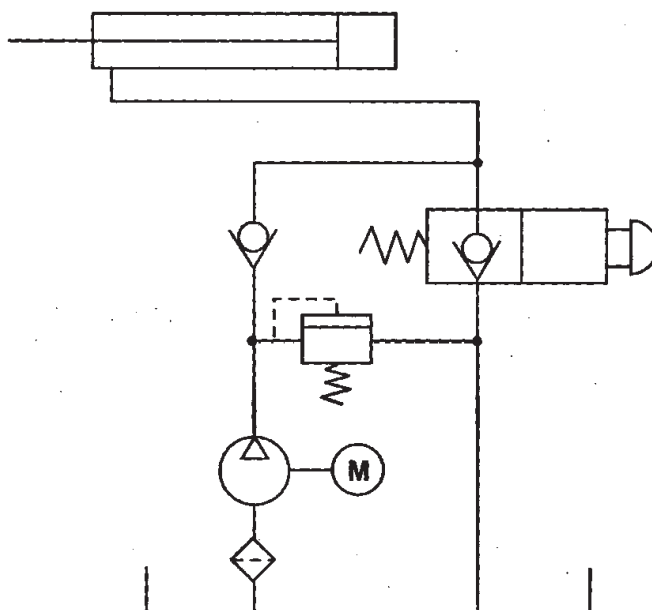
- If the customer needs, our company can supply any kinds of lifting machines in 220V power supplied.

**Overall
dimensions**



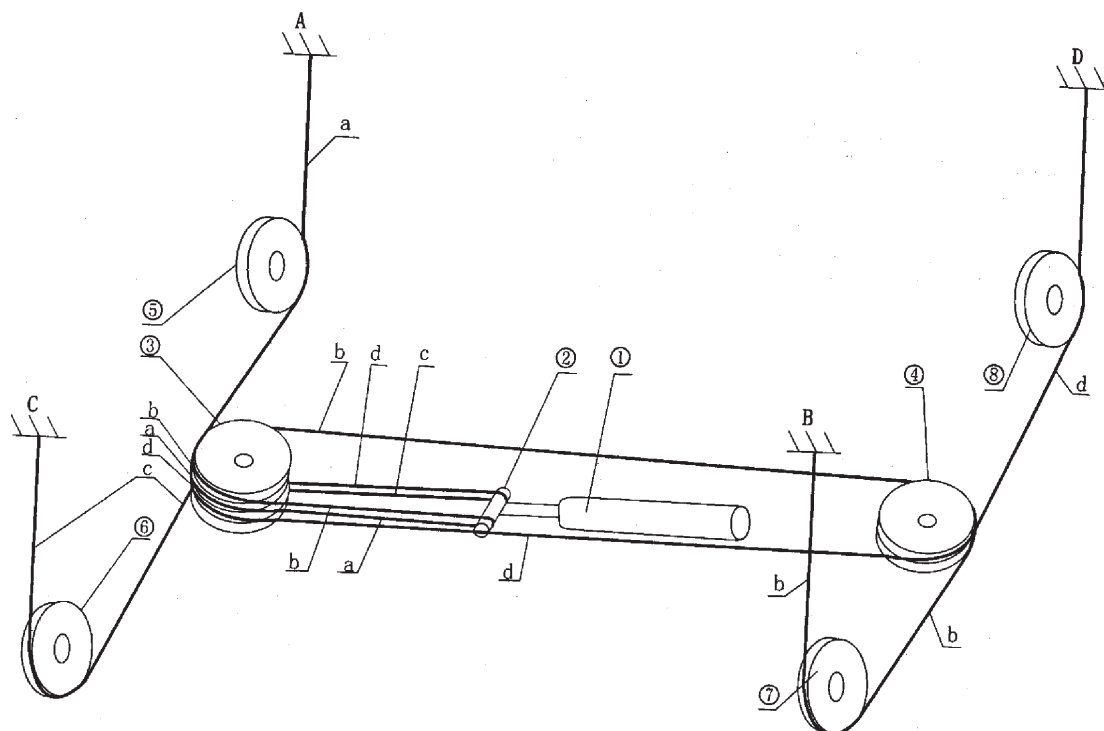
HYDRAULIC SCHEME

Figure (1)



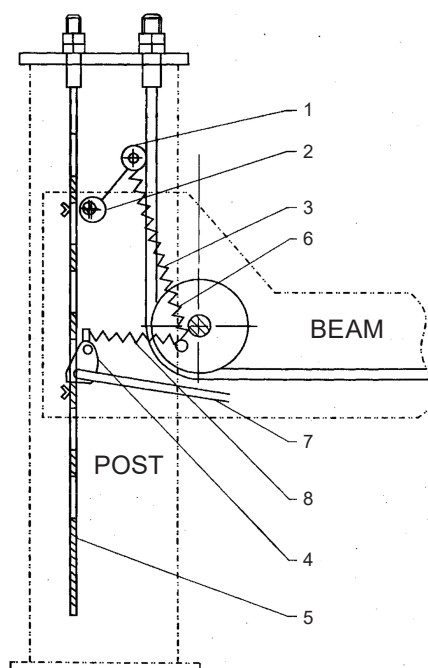
WIRE ROPE AND PULLEY

Figure (2)



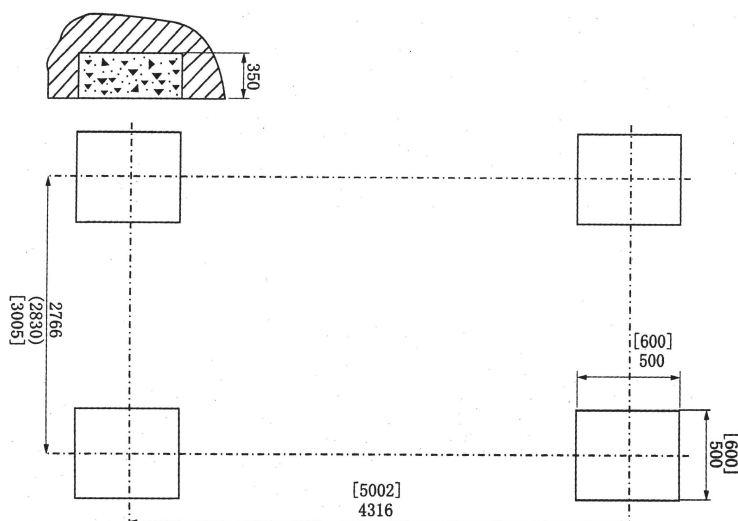
HYDRAULIC SCHEME

Figure (3)



FOUNDATION DRAWING

Figure (4)



NOTE

- To install the lift it is necessary to execute suitable foundations with the following characteristics:
 - Concrete type 425.
 - Thickness of concrete $\geq 150\text{mm}$, the leveling of whole length $\leq 5\text{mm}$.
 - Data in [] is for ATL-4.5F.

MACHINE STRUCTURE AND WORKING PRINCIPLE

The machine is made of post, platform, beam, hydraulic drive, electrical equipment, wire rope and pulley block.

- **The principles of workbench are shown in figure (2).**
 - Put cylinder 1 to main platform.
 - There is a roller at the top of the piston rod 2. Wire rope a,b and Wire rope c,d are locked at the both side of the roller.
 - Wire rope a goes through pulley 3 and pulley 5 then fasten to the top of Post A;
 - Wire rope b goes through pulley 3 then pulley 4 and pulley 7 and last fasten to the top of post B.
 - Wire rope c goes through pulley 3 and pulley 6 and then fasten to the top of Post C.
 - Wire rope d goes through pulley 3 and then pulley 4 then pulley 8 and last fasten Post D.
- When it is rising, press the rising button to start the motor. After the oil pump rotates, pressured oil goes into the cylinder front cavity. Then the piston moves back and through Axis 2 to pull the rope a, b, c, d, via tackle block and beam on the pulley make workbench to rise steadily.
- When it goes down, press the landing handle of the pump station, then you can open the hydraulic valve oil-returning channel. Under the effect of gravity, oil in the hydraulic oil cylinder discharges back to the fuel tank. At last, pull piston rod outwardly through the wire rope, workbench falls steadily. Change the compression degree of the handle, you can change the size of the oil-returning channel's front opening. So we can control descent speed safely and stably.

SAFETY DEVICES

In order to guarantee safety operation, the machine sets up multiple security devices:

- **Safety hook device is shown in figure (3).**

- **Raise the lift**

Safety bar 5 hang in the post, screw the nut at the top of the safety bar to adjust the height of the safety bar. Hook 4 connect to beam. Hook 4 goes into the safety bar by the force of the spring 8. When the platform goes up, safety bar will raise follow the beam. When raise the height you needed, go down for until the platform has been locked. At this time , all the weight concentrate on the safety bar instead of the wire rope. This design make sure the safety.

- **Lower the lift**

Press up button to raise the lift for a while for it have some rest to unlock the safety. Use handle 7 (at the middle of platform) to unlock. Then press down handle at the pump station.



NOTE

► Before working under the lift, please make sure the lift have been locked.

- **Rope-broken protection system (shown in figure (3)).**

- Eccentric wheel 2 hinge to the beam. By the force of spring6, wheel 1 lean on the steel wire 3. At the normal time, wheel 1 go up and down along the and there is some rest between the eccentric wheel and safety bar. When the rope broken, by the force of the spring, beam will be locked at the post.

THE INSTALLATION AND DEBUGGING OF MACHINE

Please read the instructions carefully before installing the machine. You should understand the principles of the machine structure, check carefully that there is any damaged during the transportation and find out that if the components of the machine are completeness. Then check the machine according to the following steps:

- To build up the subgrade according to the ground plot (figure 4). If the thickness of surface concrete is higher than 150 mm and the ground level meet the requirement, columns can be fixed by setscrews directly.
- Set the longitudinal beam and beam in the installation site according to the appearance of machine marks on the selected car station. Haul the oil cylinder piston in the main girder out according to the figure 2.
- To connect the two longitudinal beams to beams, tighten bolts and build up the workbench. Then to set up the workbench from ground around 300 mm and connect the safety handle driving rod with the hook device on the beam. Finally, we can install guide block on the beam.
- The four columns should be set in corresponding beam ports respectively, and adjust the clearance and column vertical degree between the columns and beams. Then tighten foundation bolts and install Safety Bar into four columns, install wire rope ports on the top of the four columns respectively.
- Put the station onto the post. Connect the oil connector at the platform with the pump station by a high pressure oil pipe. Connect the power wire and fill the oil tank with 14 litre 46# antiwear hydraulic oil.
- Check the wire according to the picture whether the steel wire has been connected in a correct way. Then test the lift without loaded. See whether the motor turn in the correct direction (anticlockwise from the top of the motor). If not , change the order of the power wire.
- Press up button to raise the platform to the 1meter high and make sure each hook have go into the safety bar. Then tighten the lock at the top of the cylinder.

NOTE

- Before tightening the screw of steel wire in the front of the cylinder, make sure the lift have been locked.
 - Make sure each lock of steel wire has been screwed tightly before use.
-
- Adjust the screw of steel wire at the top of the post to make sure the platform horizontal.

- Adjust the safety bar screw at the top of the safety bar to make sure the four corner of platform locked in the same time.
- Adjust the rubber slider at the two side of the beam to make sure the platform go up and down as steadily as possible.

 NOTE

- The lift should be fully tested.

- After no-load test, install the spring to the eccentric wheel.
- Add grease at the steel wire and all the axles.
- After load test 3 times , if the steel wire extends a little, adjust the steel wire again.

THE OPERATION AND ANNOUNCEMENTS

In order to ensure safety production, each class must check the machine's relevant part and pump station oil level carefully according to the instruction manual before using.

Each class must be carried out no-load test before using:

- When you press the up button, workbench should rise; when you loosen the button, the workbench should stop.
- Stop after the workbench rise to a certain height. To make sure that, the four hooks hang in the rectangular holes of the column's hang-plate.
- Push the safety handle which is on the longitudinal beam to the lock position. Then the four hook hangs can be divorced from the hang-plates completely.
- When you press the down handle of the pump station, workbench should drop at normal speed. When you loosen the handle, the workbench should stop.

 NOTE

- The machine should not have abnormal noise and other abnormal phenomenon during the above process.

Normal use

- To drive the cars to the workbench, then tense the hand brake, and the driver go out of the workbench.
- Put the antiskid mats in the front and rear of car wheels.

- Push the safety handle to the release-position, press the up button to make the workbench rise to the required height.
- Press down the handle gently. Then make sure that four hooks bearing in the hang-plates rectangular hole, and check columns respectively. Finally, take repair operations after regulation confirmation.
- After finishing repairing, press up button to raise the lift a little and use the locking handle (in the middle of the platform) to unlock the platform. Make sure the four hooks separate from the safety bar. Press down handle to lower the platform to let the lift go down to the bottom. Move away the antiskid rubber. The car can be driven away.

Use Notice

- The machine must be operated by designated person. You should follow the requirements of the manual about the use and the maintenance of this equipment. Technician should read the instructions firstly and the disqualified person is prohibited from operating the machine.
- It is prohibited strictly from overload operation and machine running in malfunction situation.
- During the process of lifting, it is forbidden to stay above and below the workbench.
- Only after the four hooks hang set up, can the technician go into the work-space.
- When the car is on the workbench and ready to maintain, make sure that the hand brake must be tightened and antiskid mats must be set up.
- Make sure that the machine is power off when it is not in use.
- When we use the lift after a period of time, wire rope will be stretched. It will cause the phenomenon that the workbench is out-of-level and four hooks are not synchronized. We should adjust timely.
- If the user needs, our company can supply the lifting machine in 220V power supplied. This kind of lifting machine use single-phase motor drive that is different from three-phase motor. Please pay more attention to it when you using:
 - The machine cannot be started frequently. 20 times is maximum for per hour. The interval between two starting time should be more than 3 minutes. In order to protect the motor, please plan the lift height first.
 - The starting process time should not be more than 3 seconds. If the machine cannot reach the normal speed or has a different sound in a designated time, power should be cut off and don not restart the machine until the trouble is shot.

THE MAINTENANCE OF WIRE ROPE (This part is extremely important)

NOTE

- ▶ We need to replace the wire rope when it reaches the following:
 - The outside diameter reduction is more than 7%.
 - The outside wire diameter wear is up to 35%.
 - There is obvious internal wear and tear.

Daily Check: Check the fixed place and the visible parts of the steel wire rope once a day. When there is an abnormal problem, please modify it immediately.

Regular Check: Executives must participate in the following check operation once a week: the length of the wire rope, the fixed part of the wire rope, the wire rope connector, the pulley parts that the wire rope move round, the broken wires and corrosion situation of wire rope, etc. If any situation below insisted, the wire rope should be replaced immediately.

- When there are more than 9 roots broken wires in 72 mm length of internal and external or 19 roots broken wires in 350 mm length.
- The whole wire rope fractures.
- Broken wires gather in the same line or concentrate in a very short range.
- Wire rope connect point has loose phenomenon.
- We need to replace the wire rope when it reaches the following:
 - The outside diameter reduction is more than 7%.
 - The outside wire diameter wear is up to 35%.
 - There is obvious internal wear and tear.
- Other damage such as internal corrosion, deformation, damage of cable core and so on.
- Wire rope should change when lifting number is more than 3000.
- Wire rope length adjustment: Check the machine after it has been used for a month. Then check the machine once a quarter and adjust the mistake in time. Make sure that the four hooks hang into rectangular holes that are in the hang-plates. Tighten the nuts after adjustment.
- Lubrication: You should smear grease on wire rope, pulley groove, hook shaft, eccentric axis, hang-plate and check it once a month. Please do supplement as soon as you find the grease is insufficient.

The Maintenance of Hydraulic System:

- The hydraulic oil level of pumping station: The hydraulic oil level should be

checked before each class (When the workbench is at the lowest position). 46 # hydraulic oil should be added when the oil level is low.

- Change hydraulic oil: The machine should change the hydraulic oil after it has been used for three months. From then on, change the hydraulic oil once a year. When you change the hydraulic oil, release the old completely and clean up the tank and oil filter, then inject the No.46 hydraulic oil.
- Hydraulic pipe: The steel tubing, high pressure hose and the joint connection should be checked once a month.
- System pressure: The oil pressure should be checked at least once a year. The oil pressure should not exceed 16 Mpa. Abnormality should be adjusted timely.

COMMON FAULTS AND SOLUTION

Fault phenomenon	Cause and Phenomena	Resolutions
The motor does not run in lifting operation.	Connection of power supply wires or zero wire is not correct.	Check and correct wire connection.
	The AC contactor in the circuit of the motor does not pick up.	If the motor operates when forcing the contactor down with an isolation rod, check the control circuit. If the voltage at two ends of the contactor coil is normal, replace the contactor.
	The limit switch is not closed.	Short-circuit terminal 100# and 102#, which are connected with the limit switch, and if the trouble disappears, check the limit switch, wires and adjust or replace the limit switch.
In lifting operation, the motor runs, but there is no lifting movement.	The motor turns reverse.	Change the phases of the power supply wires.
	Lifting with light load is normal but no lifting with heavy load.	The set safe pressure of the over-flow valve may be increased by turning the set knob right ward slightly. The spool of the lowering solenoid valve is stuck by dirt. Clean the spool.

In lifting operation, the motor runs, but there is no lifting movement.	The amount of hydraulic oil is not enough.	Add hydraulic oil.
	The “operation stop valve” is not open.	Turn right and open the “Operation stop valve and supply hydraulic oil to main oil cylinder.
When press “Lower” handle, the machine is not lowered.	The safety pawl are not released form the safety teeth.	First lift a little and then lowering.
	The safety pawl is not lifted.	The air pressure is not enough or the safety pawl is stuck.
	The lowering solenoid valve is energized but does not work.	Check the plug and coil of the lowering solenoid valve and check the right turn tightness of its end copper nut and so on.
	The hydraulic oil has too high viscosity or frozen, deteriorated (in Winter).	Replace with 20# hydraulic oil in accordance with the instruction book.
The machine lowers extremely slowly under normal loads.	The “antiknock valve” for preventing oil pipe burst is blocked.	Remove or close air supply pipe and thus lock the safety pawl of the machine without lifting of the safety pawl. Remove the “antiknock valve” from the oil supply hole at the bottom of the oil cylinder, and clean the “antiknock valve”.
Noisy lifting and lowering.	Lubrication is not enough.	Lubricate all hinges and motion parts (including piston rod) with machine oil.
	The base or the machine is twisted.	Adjust again the levelness of the machine, and fill or pad the base.

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 AUTOTOOL user and are not satisfied with the AUTOTOOL 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.
- AUTOTOOL 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 AUTOTOOL 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 AUTOTOOL 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-4.5F)

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-4.5F), HS202601232168, HS202601232166

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



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