

AUTOOL ATL-4S

Small Platform Scissor Lift (Square Tube Type)

User Manual

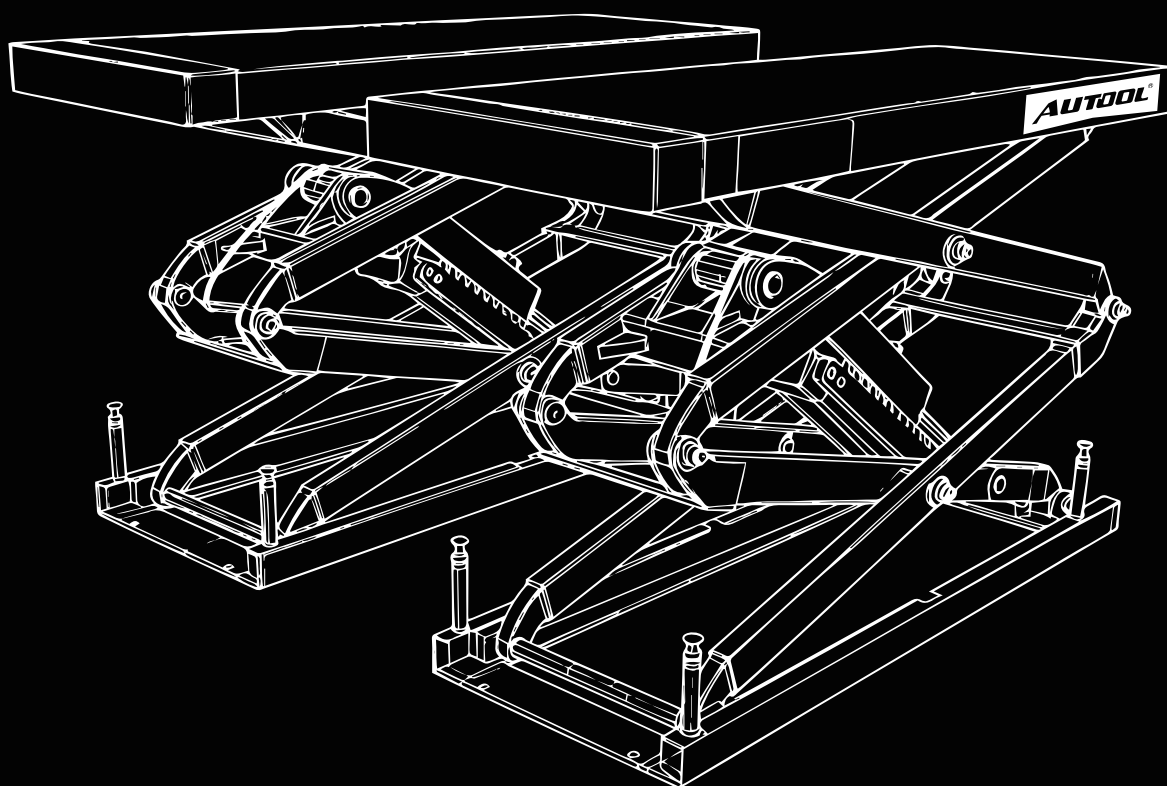


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SAFETY PRECAUTIONS

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.



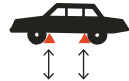
- ▶ Do not operate a damaged lift.



- ▶ 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

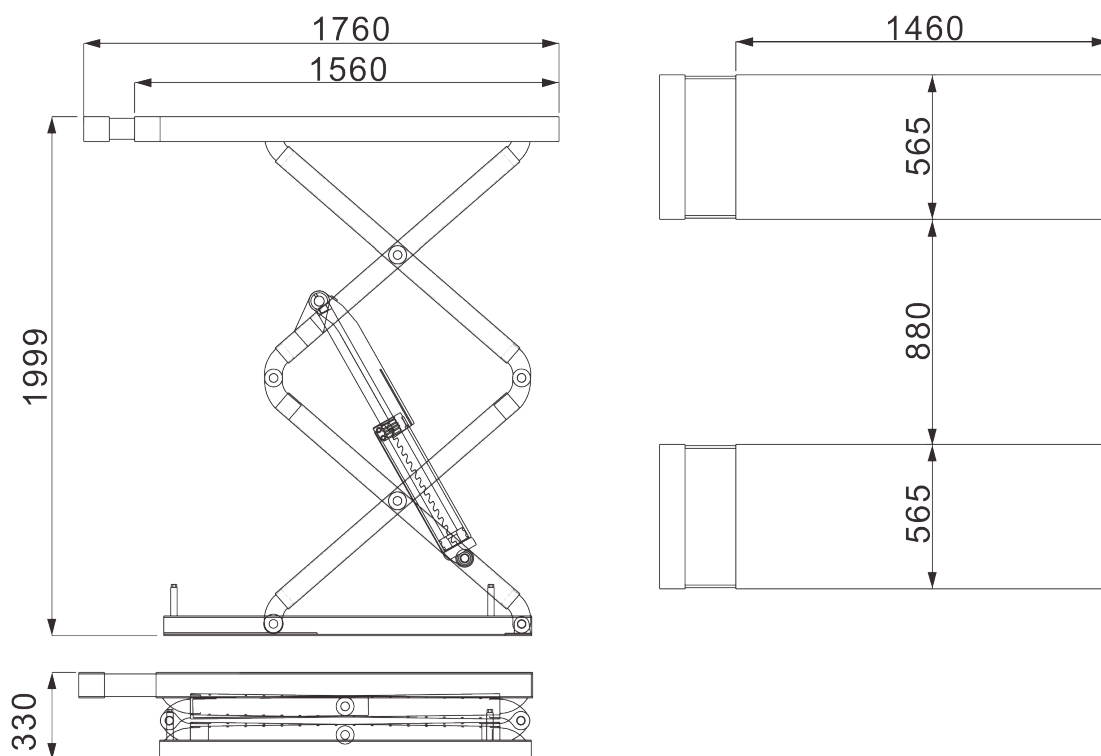
Product features

- Movable ramp which can be used as extension board.
- Monolithic baseplate without splice.
- Stable and reliable control system.
- Aluminum alloy motor with low noise and fast heat dissipation.

Technical parameters

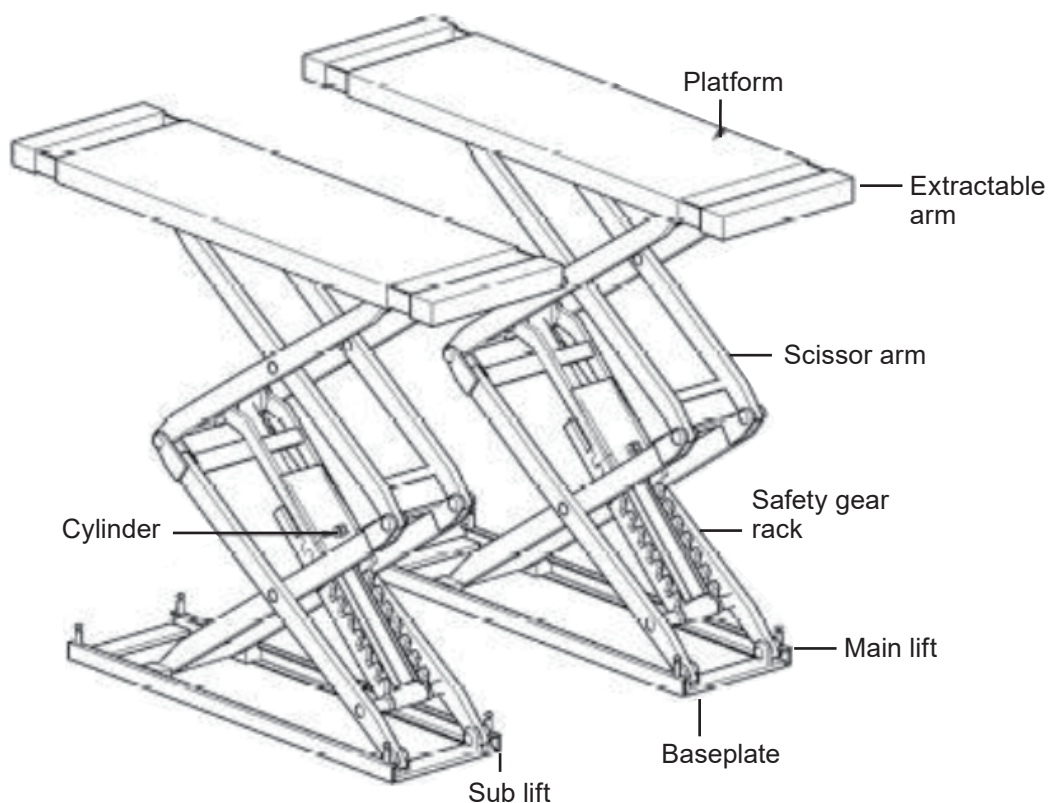
Rated lifting capacity	4000kg
Initial height	330mm
Lifting height	1999mm
Platform length	1560-1760mm
Platform width	565mm
Motor parameters	3PH, 380VAC, 2.2kW
	1PH, 220VAC, 2.2kW
Type of hydraulic oil	ISO 46#
Air pressure	0.6-0.8MPa

Diagram of product



Schematic diagram for main components

- Working platform: For lifting the vehicle by contacting the chassis.
- Safety gear rack: Safety mechanism for mechanical locking.
- Cylinder: Actuator, pushing the platform to rise.
- Extractable arm: Extension work platform
- Master cylinder: Actuator, pushing the platform to rise, with two oil pipes.
- Slave cylinder: Actuator, pushing the platform to rise, with one oil pipe.
- Scissor arm: Main lifting structure.



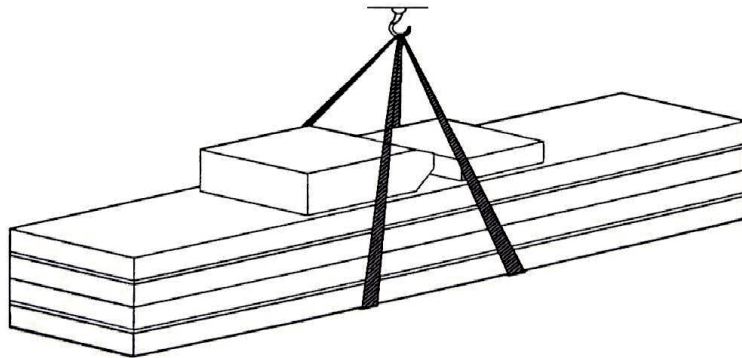
PREPARATION FOR INSTALLATION

Unpacking

All packing, loading / unloading, transportation and unpacking operations must be performed by professional personnel.

Transportation

- The scissor lift shall be loaded/unloaded and moved by a lifting machine and forklift with capacity over 3 tons.
- To prevent the scissor lift falling off, one person shall pay attention to the scissor lift during the lifting operation for fear of accidents.
- The scissor lift shall be transported by an automobile or ship.
- The scissor lift shall be inspected for completeness when it arrives, for fear of damage or loss during transportation.
- If the packing box is broken during transportation, inspect the broken box according to the Packing List, confirm the damaged articles and lost components, and at the same time, inform the carrier immediately.
- The lift is heavy! Therefore, manpower loading/unloading and handling are forbidden. Safety is of much importance.
- In addition, the hoisting of scissor lift during loading/unloading shall be operated as illustrated.



Storage

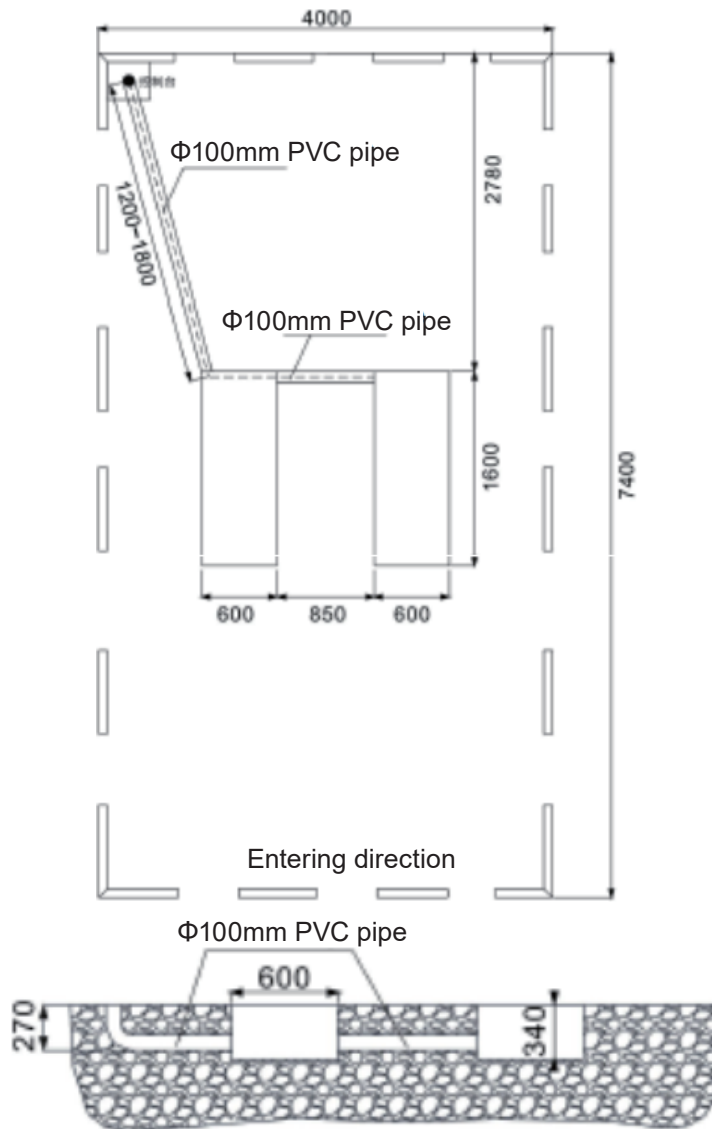
- Machinery equipment shall be stored in an indoor warehouse, and waterproof treatment shall be adopted in case of outdoor storage. A van truck shall be used for highway transportation, and a container for waterway transport. The control cabinet must be placed upright during transportation, and be protected from squeezing by other goods.

Preparation for installation

- **Installation scheme**

Foundation diagram of the product:

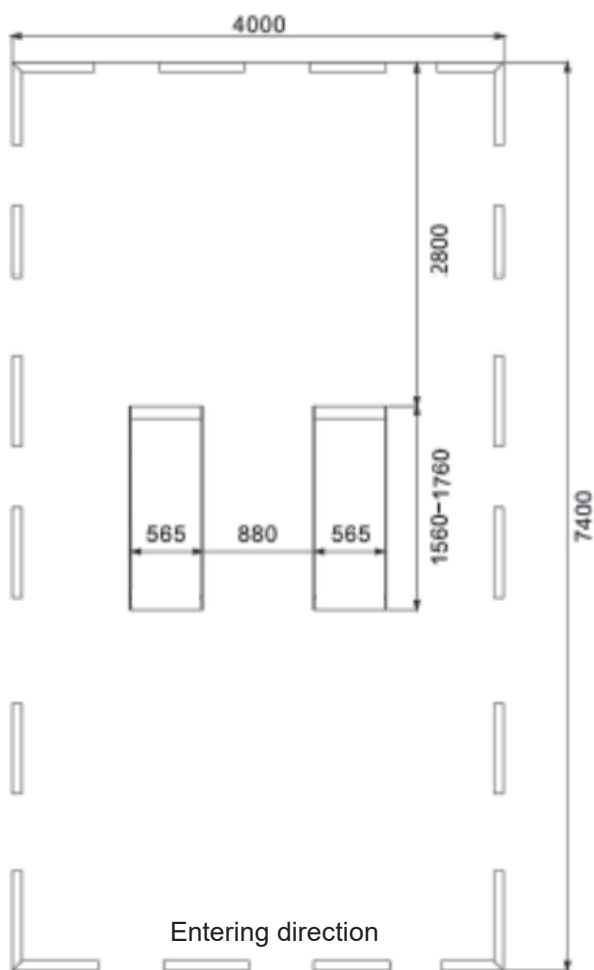
- 220V: Incoming power wire 4mm², ground wire 2.5mm²
- 380V: Incoming power wire 2.5mm², ground wire 1.5mm²
- Air supply pressure 6-8kg/mm²



⚠ NOTE

- The foundation pit shall be 340mm deep with a flat bottom surface, the levelness of which not greater than 1.5mm. Vertical side walls, and upper edges covered with 40*40 angle steel.
- The concrete shall be reinforced with steel, and have a thickness greater than 250mm and a compressive strength not lower than 25MPa. The grade of the foundation concrete shall be greater than C25.
- A Φ50mm PVC pipe shall be buried 270mm deep between the two places respectively for the distribution box of the station and the control cabinet of lift.

- Schematic diagram



Voltage	380V	220V	380V	220V
Power	3kW	3kW	2.2kW	2.2kW
Start current	21A-35A	60A	18A-30A	60A
Operating current	8.5A	21A-25A	7.5A	20A-22A
Wire size	At least 2.5 mm ²	At least 4 mm ²	At least 2.5 mm ²	At least 4 mm ²
Air switch	C63	C63	C63	C63
Applicable to	Scissor lift	Scissor lift	Two posts, four posts	Two posts, four posts

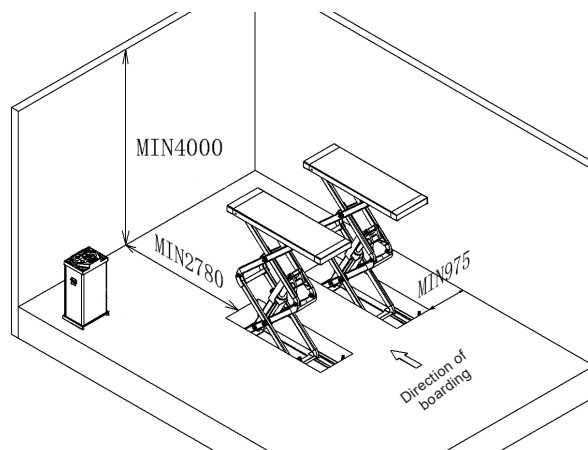
Installation

NOTE

- ▶ Only professionals are allowed to conduct the installation work. Moreover, they shall read and follow the operation instructions below carefully to prevent machine damage or injuries.
- ▶ Only authorized technicians are allowed to install the lift.

Installation requirements

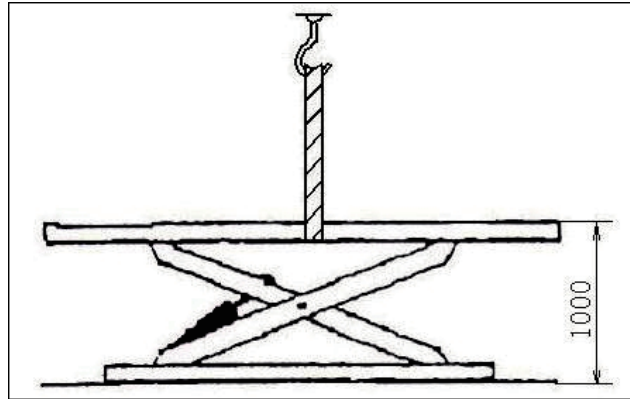
- The lift must be installed in accordance with the specified safe distances from walls, columns and other equipment (as shown in picture), including the minimum distance 2000mm-2900mm from walls.
- The ceiling height cannot be less than 4000mm. It is recommend to install the lift in a pit, and construct the foundation as required in picture.
- Nevertheless, the lift can be installed on any indoor floor, provided that the floor meets the leveling requirements and has enough bearing capacity ($\geq 25\text{MPa}$).



- The arrived goods shall be inspected for completeness before installation of scissor lift.
- The movement and installation of the lift shall be carried out by the professionals.
- For the transportation and storage of the machine, refer to the “Transportation and Storage”.

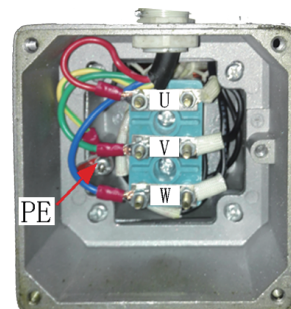
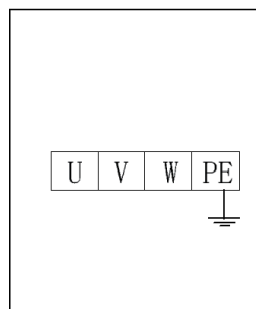
Installation of lifting platforms

- Determine the installation direction of the lift according to the arrows on the lift package. When the lift is installed in the pit or on the ground, insert adjusting sizing blocks under the platform, lift the lifting platform with a forklift or other lifting equipment to about 1000MM, so as to ensure that the mechanical safety device is activated and locked.

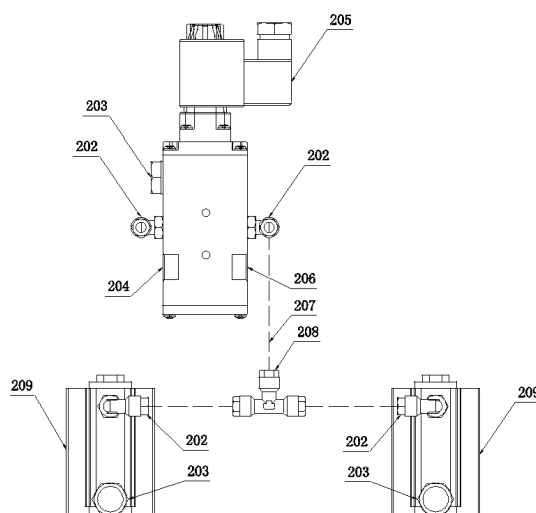


NOTE

- ▶ To avoid the failure of the mechanical safety device, a wood block can be inserted at the middle of the connecting rod. When the hydraulic system is not fully filled with hydraulic oil and has the lifting and lowering actions, do not work under the lift. Move the lifting platforms, adjust the distance between two platforms to make them parallel, and connect the electric circuit, oil circuit and pneumatic circuit as specified in the electrical diagram and oil circuit connection diagram.
- ▶ Only after the hydraulic system connection is completed, the pneumatic circuit connection can be conducted.
- ▶ Oil pipes, electric wires and air pipes shall not be damaged.
- ▶ Connection of electrical circuit: Connect the electrical circuit according to the wire diameter and wire size specified in the electrical diagram.
- ▶ Only the professionals qualified for electrical operation are allowed to conduct the electrical installation
- ▶ Open the upper cover of the control cabinet first.
- ▶ Connection of power line: Connect the 380V three-phase four-wire power line (cable of $3 \times 2.5\text{mm}^2 + 1 \times 1.5\text{mm}^2$) to the control cabinet interfaces U, V, W and input terminal, and connect the PE grounding wire to the labeled grounding bolt firstly and then to the labeled grounding bolts at the bottom of the two platforms.

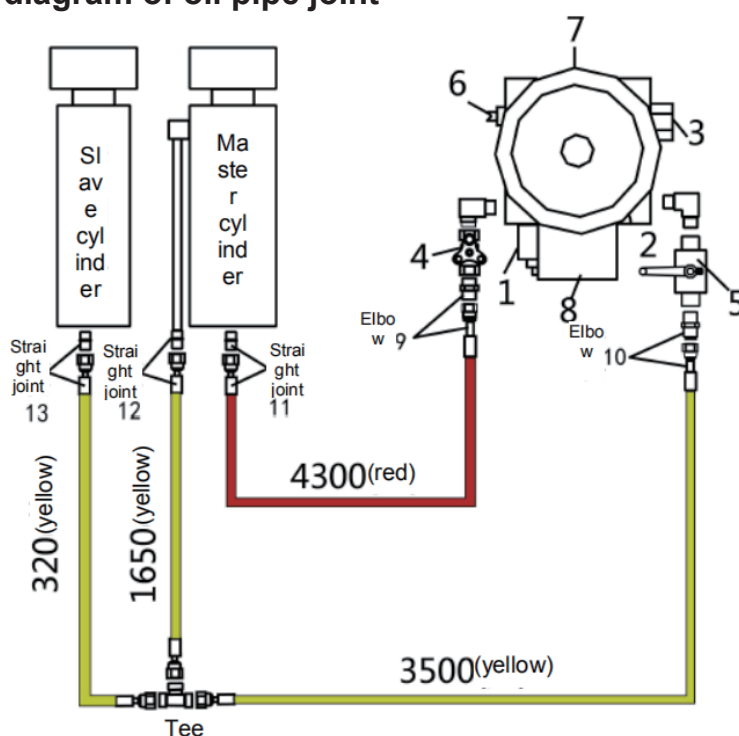


Connection schematic diagram of air pipe joint



S/N	Part No.	QTY
203	Muffler	3
204	Plug 1/8	1
205	Solenoid valve	1
206	Plug 1/4	1
207	Air pipe PU0604	1
208	T-joint APE	1
209	Small cylinder	2
211	Air pipe PU0806	

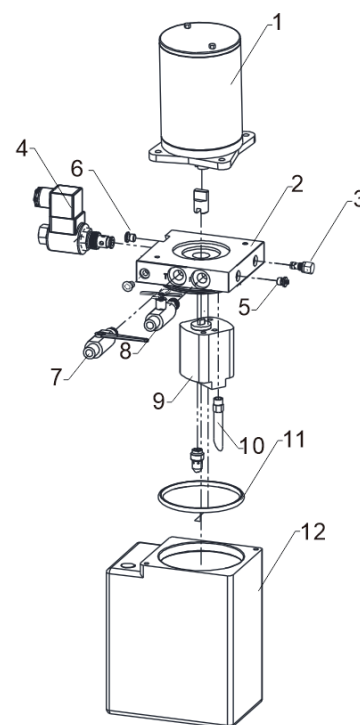
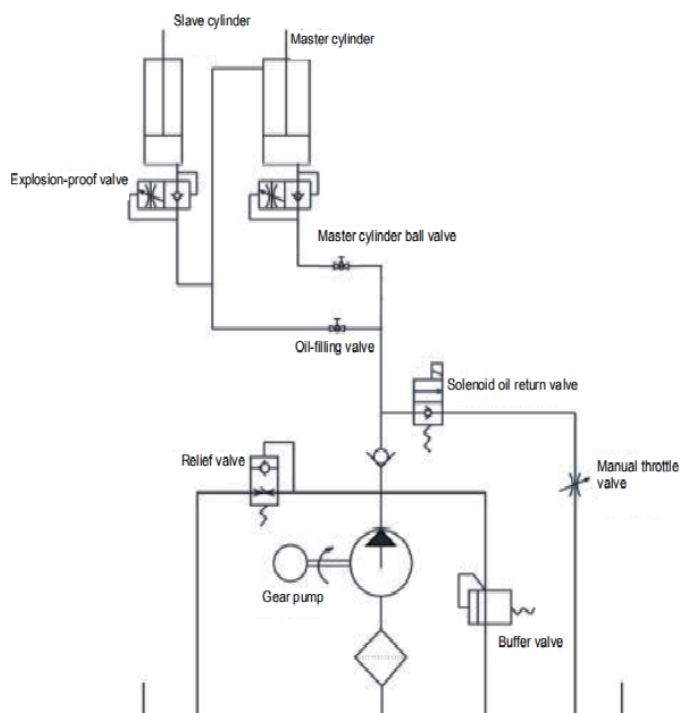
Schematic diagram of oil pipe joint



In case of working, 4 is opened and 5 is closed.
In case of oil filling, 4 is closed and 5 is opened.

1	Oil return solenoid valve	5	Oil-filling valve
2	Check valve	6	Lowering speed regulating valve
3	Relief valve	7	Motor
4	Service valve	8	Motor box

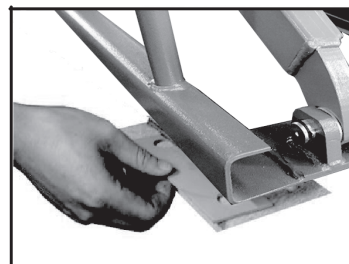
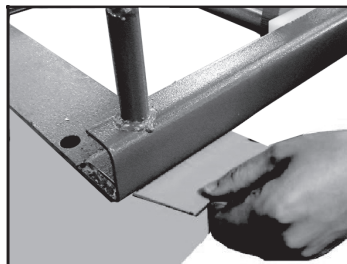
Hydraulic schematic diagram



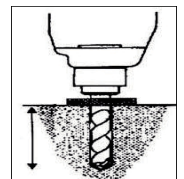
- Explosion-proof valve: used to significantly reduce the speed of lowering after the blowout of oil pipe.
- Oil-filling valve: used to adjust the amount of oil in the slave cylinder No.7.
- Solenoid oil return valve: controlling the oil circuit for lowering No.4.
- Manual throttle valve: adjusting the speed of lowering No.5.
- Relief valve: controlling the maximum pressure No.3.
- Gear pump: supplying oil pressure No.9.
- Buffer valve: reducing the motor load when the motor starts No.8.

COMMISSIONING

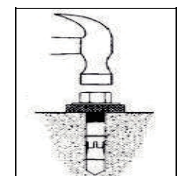
- Filling of hydraulic oil: Open the door of the control cabinet and fill the hydraulic tank with 16L 46# anti-wear and antifreezing hydraulic oil (provided by the user) with a funnel.
- Pipeline connection: Connect the oil pipe according to Oil Circuit Connection Diagram (the protection of the joint is the most critical during the process of connecting the oil pipe, and prevent the sand from entering the oil circuit).
- Oil-filling and leveling: Turn on the power, press the UP button, check whether the motor runs in the correct direction, and finally fill oil and perform bleeding and leveling.
- Installation and leveling: Lock the safety jaws in the safety teeth of the same level, adjust the spacing, fix the expansion screw (not installing the core), and after rough leveling, install the expansion screw core, and then perform fine leveling.
- Insert metallic sizing blocks under the platform to avoid the horizontal leveling of the lift on the uneven ground.



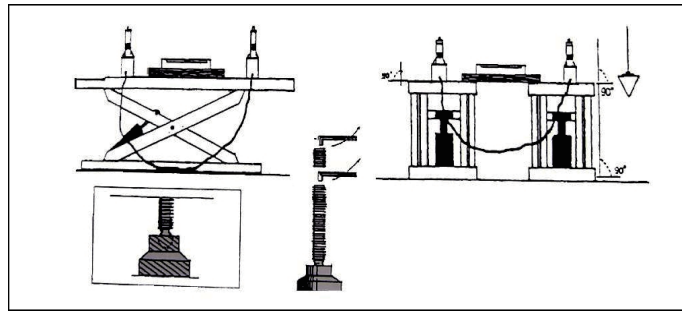
- Drive a $\Phi 18$ percussion bit to 160 mm depth in the ground from the holes on the base plate with an electric hammer, and clean the hole.



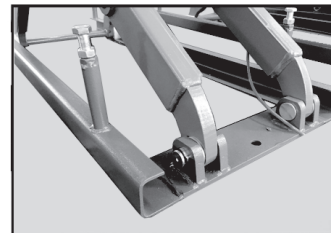
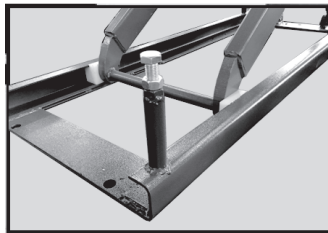
- Fix anchor bolts into the holes with a light hammer (without inserting the central expansion screws of the anchor bolts, which shall be fixed after the leveling is completed).



- Lift the platforms to the fifth or sixth teeth, then press the “Lock” button to fasten the safety jaws of the left and right platforms into the safety gear racks firmly.
- Inspect that the surfaces of the left and right platforms are level laterally and longitudinally with a transparent leveling pipe or level gauge.



- If the uneven platform is caused by the uneven foundation, adjust the adjusting bolts on the base plate of the main lift with a wrench.



- After the leveling, insert the central expansion screws of foundation bolts, and fix the expansion screws with a heavy hammer.
- Tighten the nuts of the foundation bolts.
- Loosen the tightening nut first.
- Adjust the length of the supporting screw rod to the proper position.
- Then tighten the nut.

Trial loading

- After verifying that all the above operations are normal, drive a vehicle onto the lift and carry out trial loading, and if the result is normal, the lift can be put into normal use.

MAINTENANCE

- Maintenance**
- Add oil at all shaft crossovers in the machine once a month.
 - Keep the safety gear rack clean.
 - Keep the upper and lower pulleys clean and lubricate them.
 - Change the hydraulic oil once a year.
 - Remove the waste in the tank.
 - The compressed air pressure used for pneumatic unlocking of the safety lock is 6-8kg/cm², which ensures the normal operation of the pneumatic solenoid valve.
-

- Operation cautions**
- Before working, please make sure there are no foreign objects around or under the machine.
 - During raising and lowering, no one can stand on the left or right of the lift or stand on or below the lift and no one can sit in the vehicle on the lift.
 - Do not lift the vehicle that exceed the lifting capacity of the lift.
 - During raising and lowering, apply the parking brake of the vehicle and place the rubber pads.
 - During maintenance, "lock" the main and sub lifts in the safety teeth of the same level (press the "Lock" button).
 - Always observe if the lift platforms act synchronously during raising and lowering. Shut down the machine in time if any abnormality is found, and restart the machine only after inspection and troubleshooting.
 - If the DOWN button is pressed, the lift will be immediately lowered, then the safety jaw cylinder will be immediately opened due to the energized pneumatic solenoid valve, and the safety jaw will be immediately lifted. Therefore, during the lowering operation, be sure to raise the lift slightly so that the safety jaw and safety gear rack can be disengaged from each other, and then press the DOWN button to lower the lift.
 - If the machine has not been used for a long time, inspect it before use.
-

- Electrical operation instructions**
- UP: Press the "UP" button and the lift will rise immediately. At this point, the motor will start to run immediately, and the safety jaw cylinder will lift the safety jaw due to the energized pneumatic solenoid valve that opens the pneumatic circuit. When the UP button is released, the motor will stop running, the lift will immediately stop rising, and the safety jaw will fall on the safety gear rack due to the de-energized pneumatic solenoid valve that closes the pneumatic circuit.

- DOWN: Press the DOWN button and the lift will be lowered immediately, and the safety jaw cylinder will lift the safety jaw due to the energized pneumatic solenoid valve that opens the pneumatic circuit.
- LOCK: Press the LOCK button and the lift will be lowered immediately, and the safety jaw cylinder will not lift the safety jaw because the pneumatic solenoid valve is not energized, and the lift will be locked by the safety gear rack to enhance the safety of the operation.

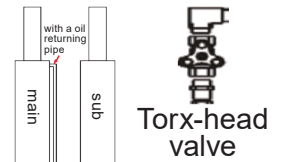
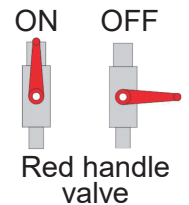
Oil-filling and leveling

When the lift is used after installation and adjustment, the air in the cylinder is not completely discharged, and the hydraulic oil is naturally lost or leaks. This may cause the right platform to be lower than the left platform (seen from the front of the vehicle) after the use for a period of time. At this point, follow the steps below:

Adjustment of small platform scissor lift

⚠ Attention

- ▶ Make sure the motor turn in anticlockwise direction.
- ▶ Make sure red handle valve close, torx-head valve on.
- ▶ Make sure connection oil cylinder is correct.
- ▶ Make sure the air lock work.
- ▶ Identify main cylinder and sub cylinder.
- ▶ sub cylinder can't be higher than a main cylinder at anytime.



⚠ NOTE

- ▶ We suggest to use ISO-L-HM46(antifreeze type).
- ▶ If the temperature below -10°, we suggest to use ISO-L-HM32 (antifreeze type).
- ▶ Two post lift —10L.
- ▶ Ingrounded small scissor lift —14L.
- ▶ Ongrounded small scissor lift—14L.
- ▶ Ongrounded double level scissor lift—16L.
- ▶ Ingrounded double level scissor lift —16L.
- ▶ Replace the oil in the first year.
- ▶ Replace the oil every two years except the first year.

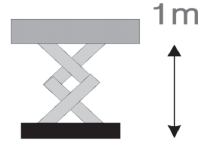
- 1. Push the red buttons in the middle and turn in clockwise direction, the safety will be unlocked and keeping. (The button is beside the motor)



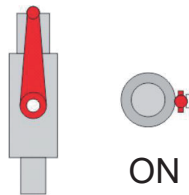
- 2. Make sure torx-head valve open, and then press "up" button the raise the main cylinder 1m high.
Do not raise the main cylinder to the toppest level.



Open



- 3. Turn on the red handle valve.



ON

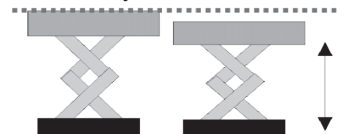
- 4. Turn off the Torx-head valve.



Open

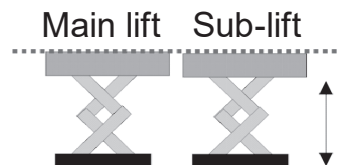
- 5. Press "up" button to raise the sub-cylinder until it is at the level of the main cylinder. Press "lock" button to lower the sub-cylinder to the bottom. (Repeat 3 times.)
Make sure the sub-cylinder can not higher than main cylinder at any time.

The main machine remains stationary. The auxiliary machine moves up and down 3 times.

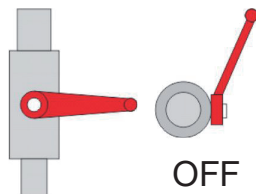


The auxiliary machine's lifting height should not exceed that of the main machine.

- 6. Press "up" button to make the sub-cylinder raise at the level of the main cylinder.



- 7. Turn off the red handle valve.



OFF

- 8. Turn on the torx-head valve.



Open

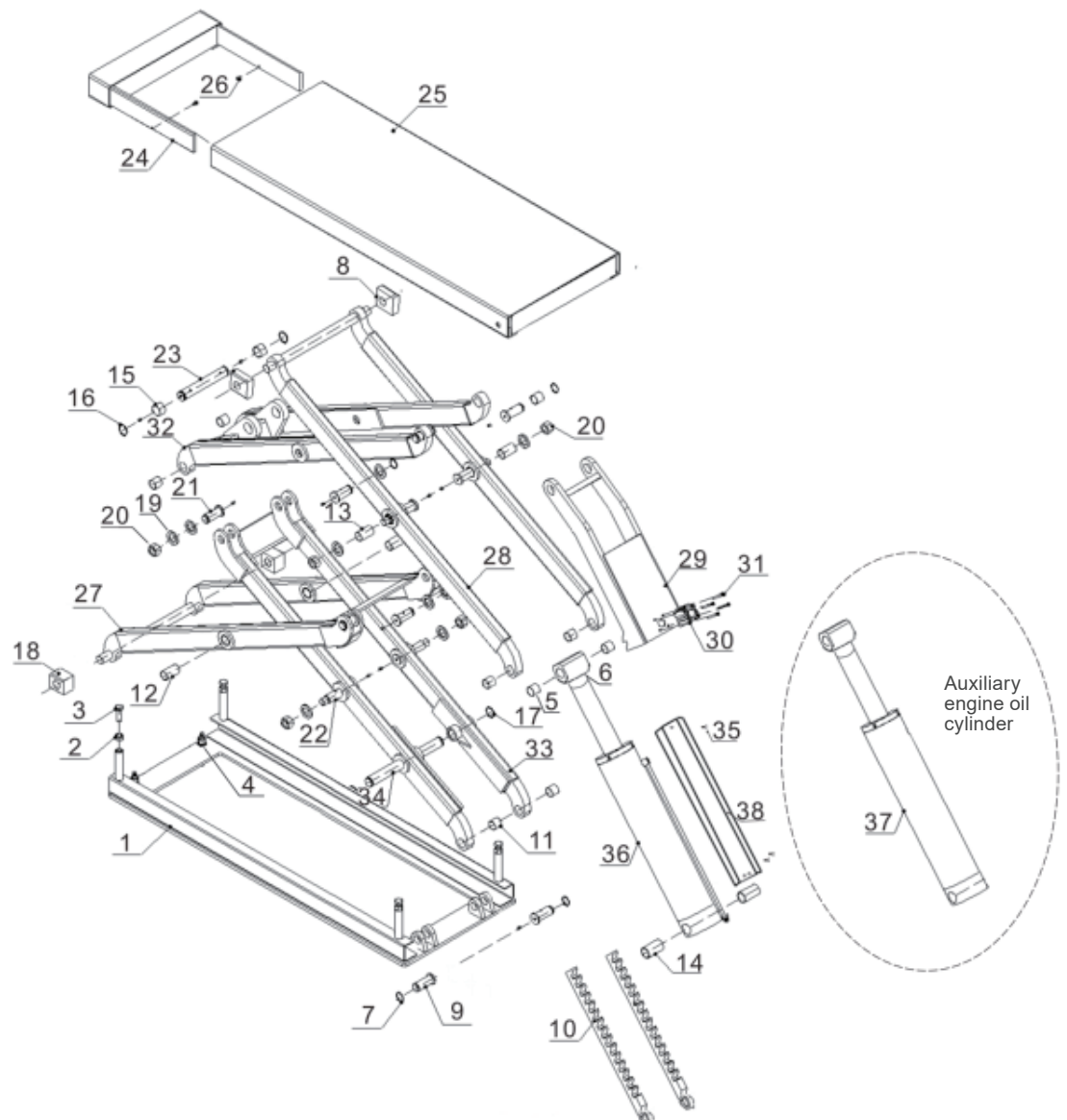
- 9. Press the red button and turn. Let the red button bounce. At this time the mechanical safety can be locked.



Emergency manual lowering procedures at power failure

- Lift the safety jaws above the cylinders for both platforms and put paper blocks under the safety jaws to separate them from the gear racks. Switch off the power and open the control cabinet door to locate the oil return solenoid valve. Loosen the copper cap at the end of the solenoid valve (2) so that the platforms can be lowered. When the platforms have been lowered, tighten the copper cap at the end of oil return solenoid valve timely to avoid unnecessary trouble. Otherwise, the hydraulic oil will directly return to the tank and thus cannot drive the cylinders to raise the lifts when the voltage is supplied normally for raising. Manual lowering is not recommended unless in case of emergency.

EXPLODED VIEWS



S/N	Name	S/N	Name
1	Small scissor base assembly	20	Type-1 non-metal insert hexagon lock nut
2	Hexagon nut	21	Hinged shaft of upper and lower scissor arms
3	Hexagon bolt (full thread)	22	Center hinged shaft of scissor arm
4	Anchor screw	23	Hinged shaft of piston rod of small scissor
5	T bushing	24	Telescopic arm of top plate of small scissor
6	T nut	25	Top plate of small scissor
7	Hinged shaft circlip of upper and lower scissor arms	26	Hexagon socket screw with round head
8	Upper sliding block	27	Lower outer scissor arm
9	Upper and lower hinged shafts of scissor arm	28	Upper outer scissor arm
10	Safety gear rack	29	Upper cover of safety device
11	Inner scissor arm lower hinged shaft oilless bearing	30	Cylinder
12	Lower scissor arm center hinged shaft oilless bearing	31	Hexagon socket screw with round head
13	Upper scissor arm center hinged shaft oilless bearing	32	Upper inner scissor arm
14	Oil cylinder bottom shaft oilless bearing	33	Lower inner scissor arm
15	Safety device upper cover oilless bearing	34	Lower hinged shaft of small scissor cylinder
16	Hinged shaft circlip of piston rod of small scissor	35	Cylinder cover plate screw
17	Lower hinged shaft circlip of small scissor cylinder	36	Master cylinder
18	Lower sliding block of small scissor	37	Slave cylinder
19	Hinged shaft spacer sleeve of upper and lower scissor arms	38	Oil cylinder cover plate

TROUBLESHOOTING AND SOLUTIONS

Fault phenomenon	Causes and symptoms	Troubleshooting
The motor does not rotate when the UP button is pressed.	The power supply is abnormal.	Perform inspection and troubleshooting, and connect the electric wires.
	The AC contactor of the pump motor main circuit does not pull in.	The motor will run if the contactor is pressed with an insulating rod forcibly. Inspect the control circuit, and replace the contactor if the voltage at the contactor coil terminal is normal.
	Phase loss.	Use a multimeter to check if the three phases are 380V. Note: A tester can not be used to check if the phase is lost.
	The button switch is faulty.	Inspect the button contracts and wires and perform troubleshooting.
The motor rotates but the platform does not rise when the UP button is pressed.	The motor rotates reversely.	Exchange the phase sequence of the incoming power wires.
	The platform ascends with light load but does not ascend with heavy load.	Increase the safe pressure setting of the relief valve by rightward rotating the valve slightly. If there is dirt in the valve core of the lowering solenoid valve, clean the valve core.
	The hydraulic oil is insufficient or the grade is incorrect.	Refill or change the hydraulic oil.
	The manual oil drain plug of the solenoid valve is not tightened.	Tighten the oil drain plug of the main lift or sub lift.
	The solenoid valve connector is blown.	Replace the solenoid valve connector of the main lift or the sub lift.
The lift does not descend when the DOWN button is pressed.	The safety jaw is not separated from the safety gear rack.	Extend the delay time of the time delay slightly.
	The safety jaw is not uplifted.	The air pressure is insufficient, the safety jaw gets stuck or the air pipe is broken. Adjust the pressure of the air compressor, inspect the air pipe and perform troubleshooting.

The lift does not descend when the DOWN button is pressed.	The pneumatic solenoid valve does not work.	If the pneumatic circuit is blocked for the energized pneumatic solenoid valve does not work, inspect or replace the pneumatic solenoid valve.
	The lowering solenoid valve does not work.	Inspect the connector and coil of the lowering solenoid valve and inspect whether the copper nut at the end of solenoid valve is rightward tightened.
	The explosion-proof valve is blocked.	Remove the “explosion-proof valve” from the oil inlet port at the cylinder bottom of main lift or sub lift cylinders, and clean explosion-proof valve.
The lift descends slowly with normal load.	The hydraulic oil is too viscous or frozen and deteriorated (in winter).	Change the hydraulic oil or increase the room temperature according to the instruction.
	The “explosion-proof valve” preventing the blowout of the oil pipe is blocked.	Remove or close the intake pipe to lock the safety jaw without lifting, remove the “explosion-proof valve” from the oil inlet port at the bottom of the oil cylinder and clean it.
The left and right platforms are out of sync and not at the same height.	The air in the oil cylinder is not bled completely.	Refer to the procedures for oil filling and leveling.
	The oil pipe or joint leaks oil.	Tighten the joint or replace the oil seal, and then fill oil and perform leveling.
	The “oil filling shutoff valve” can not be closed tightly, and therefore oil filling is required almost everyday.	Replace the oil filling shutoff valve, and then fill oil and perform leveling.
There is noise during raising and lowering.	Insufficient lubrication.	Apply oil at all hinges and moving parts (including piston rods) to lubricate them.
	The foundation or the machine is distorted.	Readjust the machine to make it level and fill (pad) the foundation.
The platform always rises when the Down button is pressed.	The time relay is loose or damaged.	Reinsert or replace the time relay.

- Troubleshooting must be conducted by trained and experienced technicians.

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 ATL-4S)

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/HS2601136(ATL-4S), HS202601232165, HS202601232163

Test Report No.: HS202601232165-1ER, HS202601232163-1ER



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