

AUTOOL ATL-3SM

Low-profile Mobile Scissor Lift

User Manual

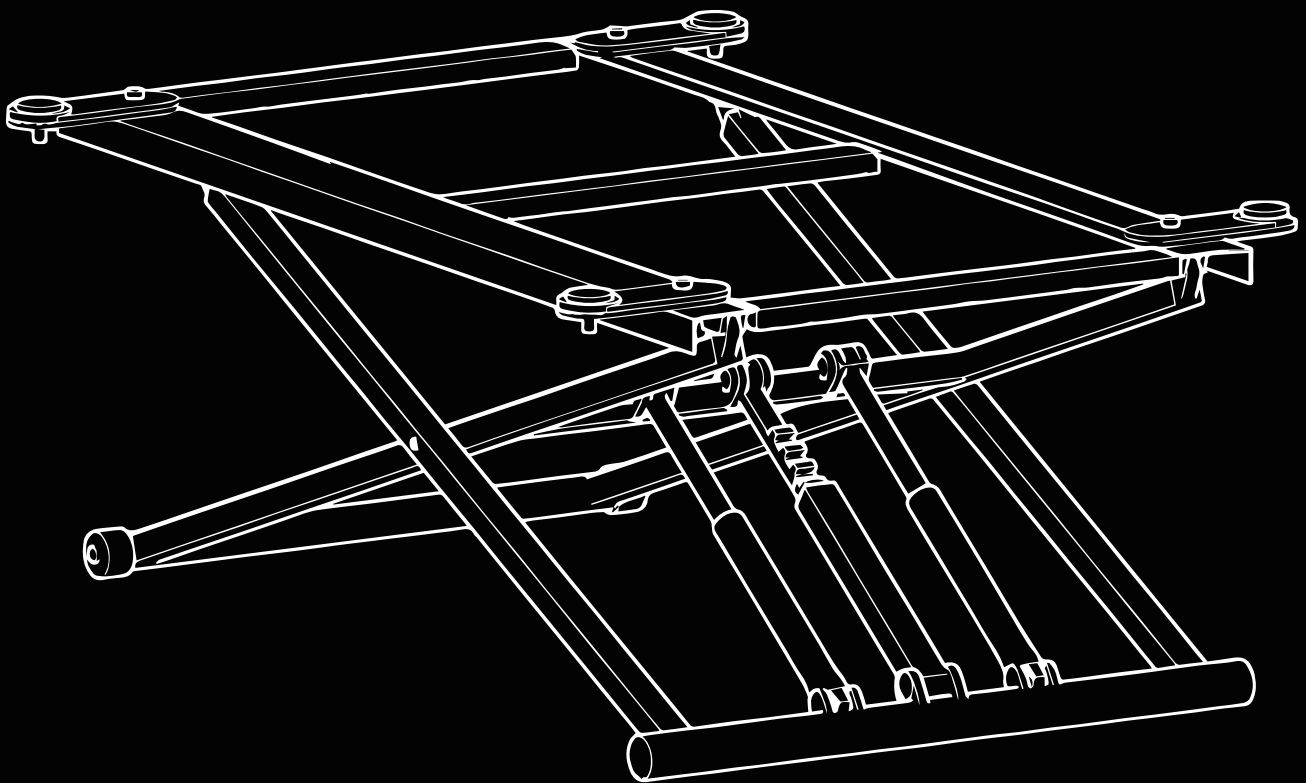


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SAFETY PRECAUTIONS

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.



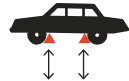
- ▶ Do not operate a damaged lift.



- ▶ 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.

INTENDED USE

- The lift has been designed and constructed for lifting vehicles with the sole purpose of performing service, repairing and inspection. Any other use not described is to be considered as improper and irrational, and thus it will be under the whole responsibility of the operator.
- The middle rise scissor lift is mainly used for tire service or other quick service around vehicles.
- This appliance must be only used for the purpose of which it is expressly designed. It is forbidden to lift people or others not specified in this manual. Any other use is to be considered improper and irrational and thus highly forbidden.
- The manufacturer is not responsible for any damage or injury caused by improper use or failure to follow these instructions.

TECHNICAL DATA

Lifting height	1200mm	Lifting capacity	3000kg
Power supply	220V/380V/other	Lifting time	30s

NOTE

- Please refer to the nameplate before connecting.
-

INSTALLATION

Before installation

- Identify the components and check for shortages. Contact us immediately if shortage discovered.
- Installation, adjusting and testing operations are to be performed by qualified staff only.
- The lift must be installed on a level concrete floor, having minimum thickness of 20cm and an extension of at least 1.5m from anchoring points.
- The lift installation concrete surface must be relatively smooth, leveled in all directions
- After unloading the lift, place it near the intended installation location.

- Remove the shipping brands and packing materials from the unit.
- Remove the packing things.

Space required

- Prepare the ground base according to the space requirement drawing.
- The concrete thickness should be ≥ 200 mm, and the levelness tolerance should be ≤ 5 mm, assuming the ground condition is good.

Electrical system

- Any work on the electrics must be carried out by qualified personnel only.
- Equip the electric system of installation place with effective ground circuit.
- The electric system adjusting must be made in accordance with the name-plate showing.

Connecting

You may start to connect oil hose, air supply and power after the above preparations.

• 1. OIL HOSE CONNECTING

- Refer to the hydraulic diagram for oil hose connecting. Make sure that no soil or other dirty things into the pipe.

• 2. AIR HOSE CONNECTING

- Refer to pneumatic diagram for air hose connecting.

• 3. POWER SUPPLY CONNECTING

- Connect power line according to the electric diagram .

• 4. REFILL THE TANK

- Pour 6 liters of L-HM32 anti-wear hydraulic oil (provided by user) into oil tank. The highest level should be 10mm from the top of the tank and the lowest level should be 40mm from the top of the tank (check with the detective ruler on the oil pouring air cover).

• 5. BASE FRAME FIXED

- The lift is design also for mobile use, means that you may use it without fixing. If need fixing, please refer to the space required drawing.

• 6. LOADING TEST

- **Never try to use the lift with vehicle on without testing first.**
- This step is very important to check if there is any leakage of hydraulic line connectors or air hose. If there's no abnormal noise or leakage

after running two or three times, run with load never exceeding 2500kg at a low height.

- Then raise higher gradually.

OPERATION



WARNING

- Do not place any vehicle on the lift before trial operation. Raise the lift up and down several times to insure latches click together and air exhausted from the cylinders.

Before operation

- Check all the pipelines and joints before use. The machine only can be used after there is not any leakage.
- The lift, if its safety device malfunctions, shall not be used.
- The machine shall not raise or lower an automobile if the center of gravity of automobile is not within the supporting range of the supporting device. Otherwise, the manufacturer will not bear any responsibility for the consequence resulted from the operation above mentioned.
- The staff or operators shall be in a safe position when the machine raise or lower.
- When the lift with vehicle on reaches a desired height, first of all, the main switch must be turned off before the automobile is repaired so as to prevent non-operator or unauthorized person from pressing the start switch.

INSTRUCTIONS FOR USE

Raising the lift

- Make sure that you have read the operation manual before operation.
- Always lift the vehicle at the manufacturer recommended points.
- Position the vehicle right on the center of two platforms.
- Turn on the switch and check whether the manual lock at the racks side.
- Raise the lift by pressing UP button on control box.
- Check the security of vehicle, then perform maintenance or repair work.
- Check whether the manual lock has been locked.

Lowering the lift

- Press up button to raise a little for unlocking first.
- Turn the manual lock at the smooth side
- Press down button to lower the lift.



ATTENTION

- Make sure the manual lock has been locked before work.

MAINTENANCE

- If something wrong with the machine within the term of service, we will repair or replace the product according to the user's demand. The manufacturer will not be responsible for improper installation, overloading, operation on unsuitable concrete surfaces (that do not meet the requirements outlined in the manual), normal mechanical wear, or insufficient maintenance. The warranty will be carried out on the basis of the type and serial number of the equipment. Therefore, the users shall provide them to the manufacturer without fail.
- The following maintenance operations are required to ensure low operating costs and long machine life. Routine observation and proper maintenance are essential for optimal performance.
- The listed intervention times are given for information and they refer to normal operating conditions. They can change according to the kind of service, environment, frequency of use, etc.

Daily pre-operation check

The user should perform daily check. Daily check of safety latch system is very important – the discovery of device failure before needed could save you from expensive property damage, lost production time, serious personal injury, even death.

- Check safety lock audibly and visually while in operation
- Check hydraulic connections, and hoses for leakage.
- Check chain connections, cable connections, wiring and switch for damage.
- Check bolts, nut and screws and tighten.
- Check swing arm restraints.

Weekly maintenance

- Check the cleanliness of the mobile parts.
- Check the safety device as previously described.

- Check hydraulic fluid level as follow: let the trolleys go up completely and in case they do not reach maximum height, add oil.
- Check and tighten bolts, nuts and screws.

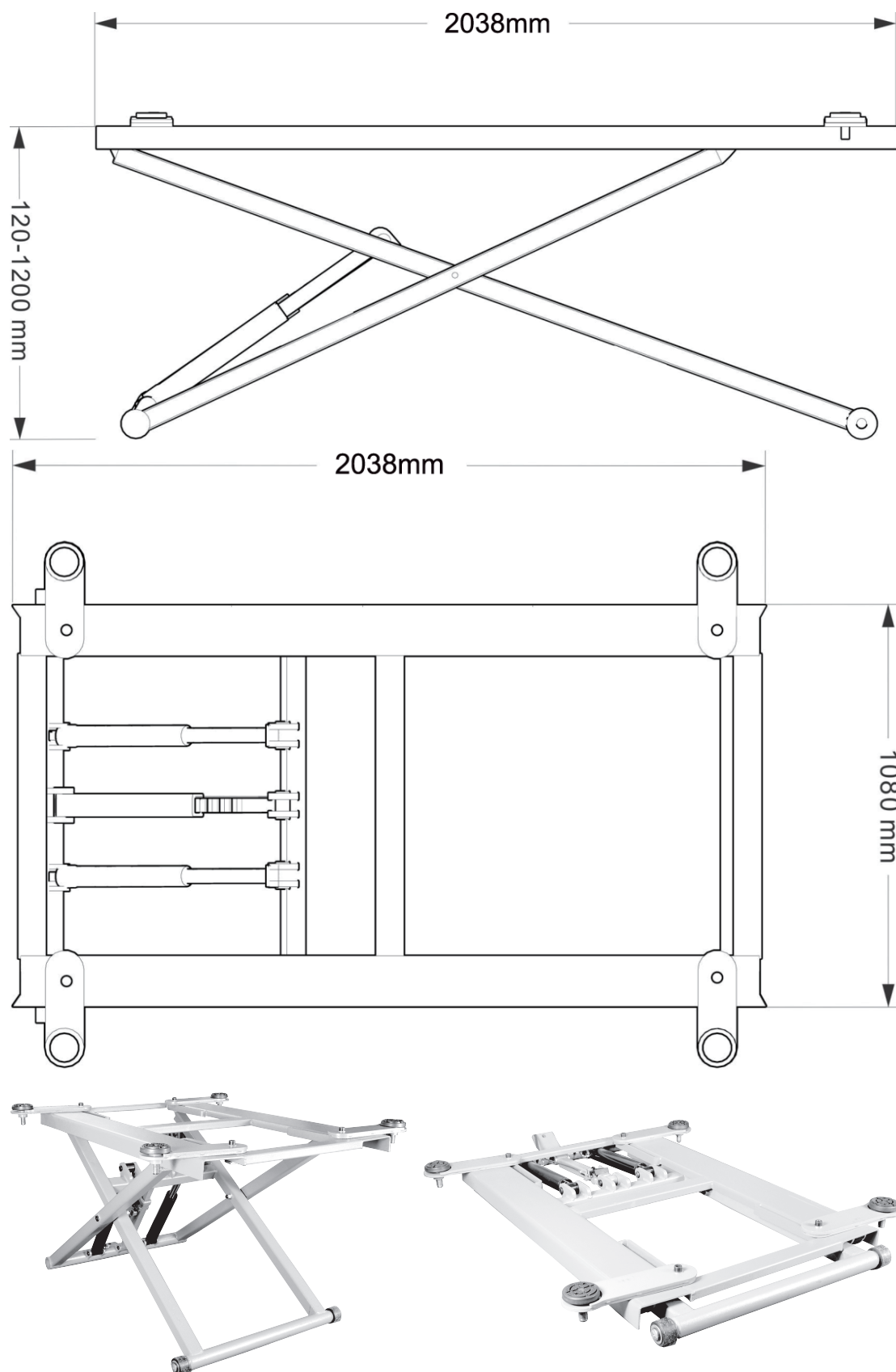
Monthly maintenance

- Check the tightening of screws.
- Check the hydraulic system seal and tighten the loose unions, if necessary.
- Check the greasing and wear condition of pins, rollers, bushes, of trolley structure as well as arms and relevant extensions, if necessary, replace the damaged parts by original spare parts.

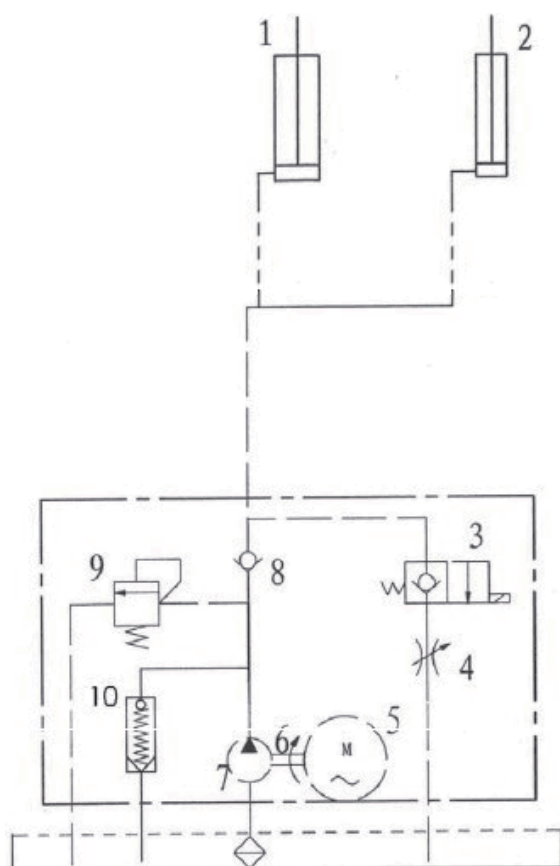
Yearly maintenance

- Empty the tank and check the conditions of the hydraulic fluid. Clear the oil filter.

OVERALL DIAGRAM

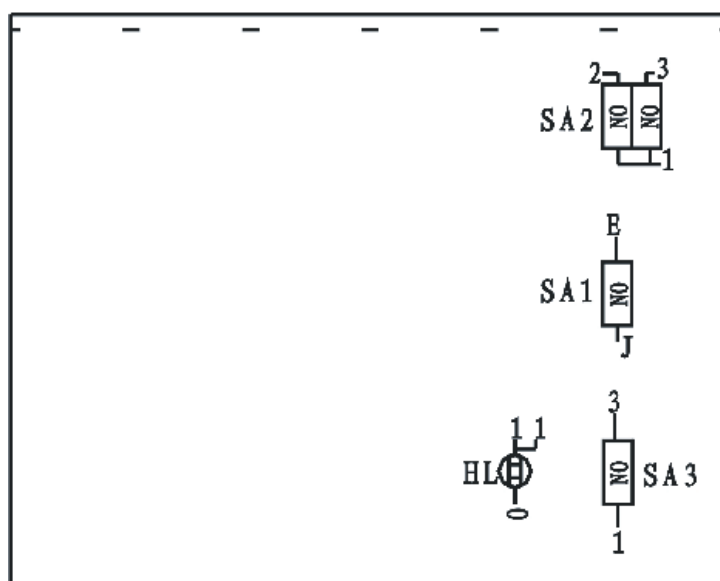
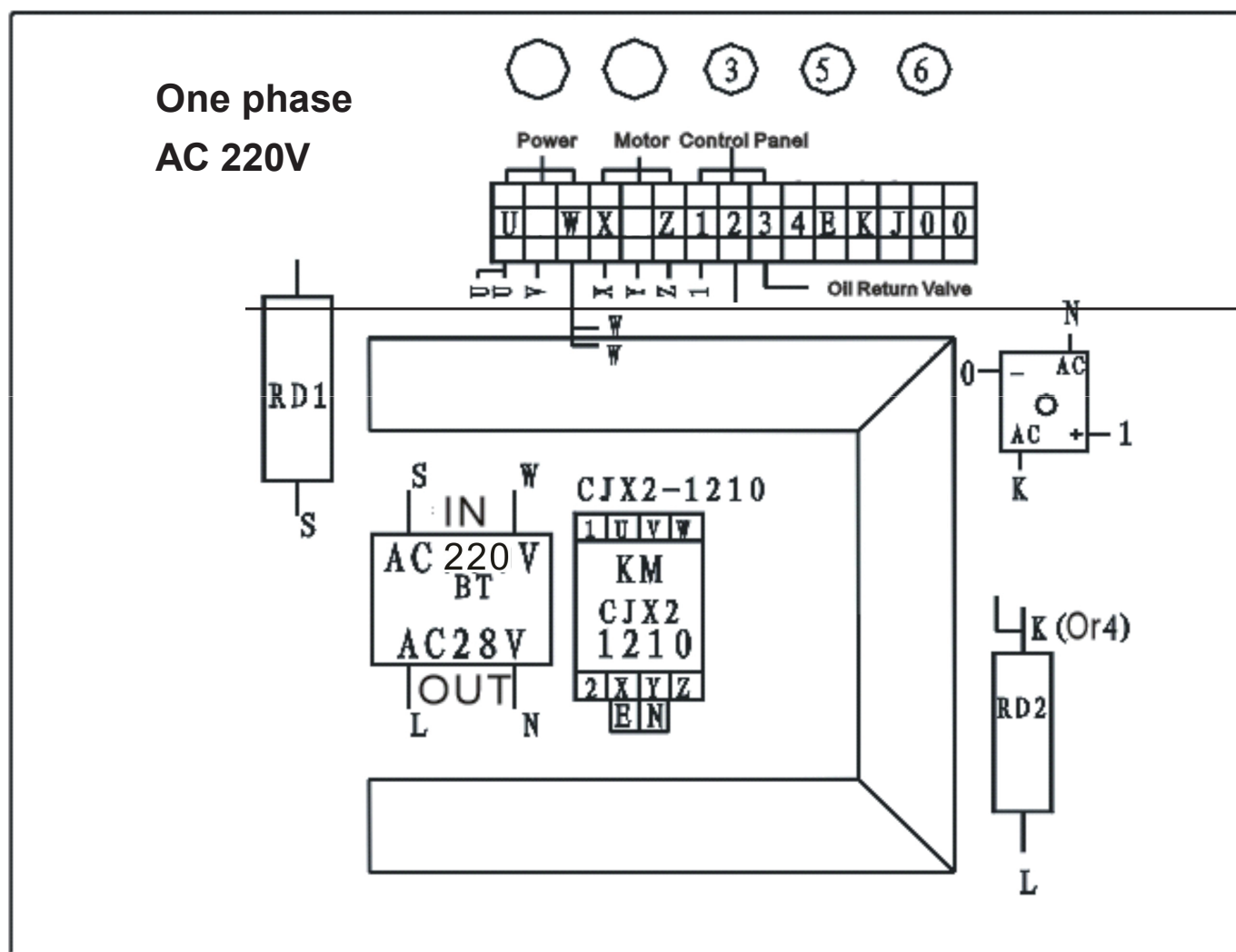


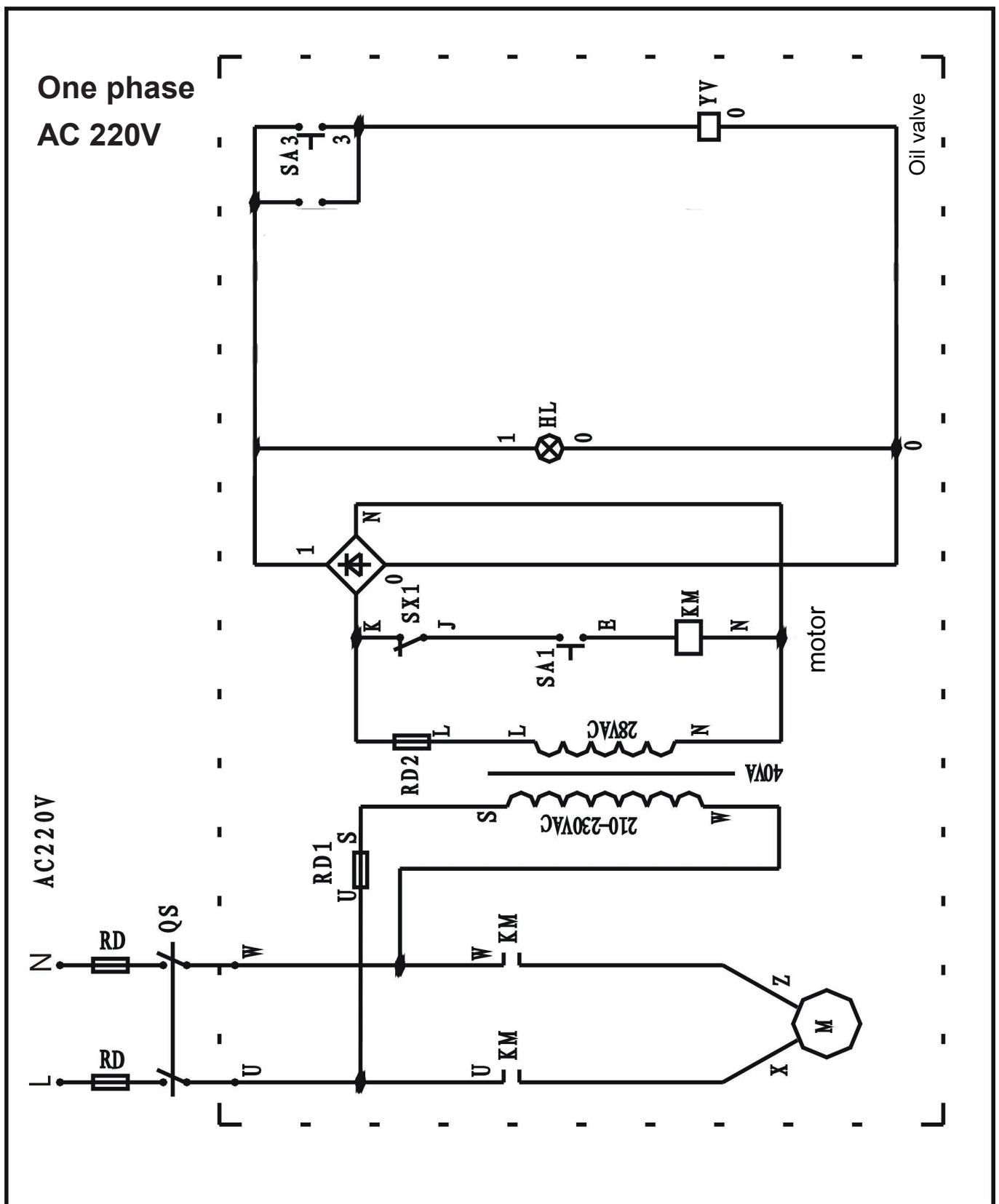
HYDRAULIC DIAGRAM

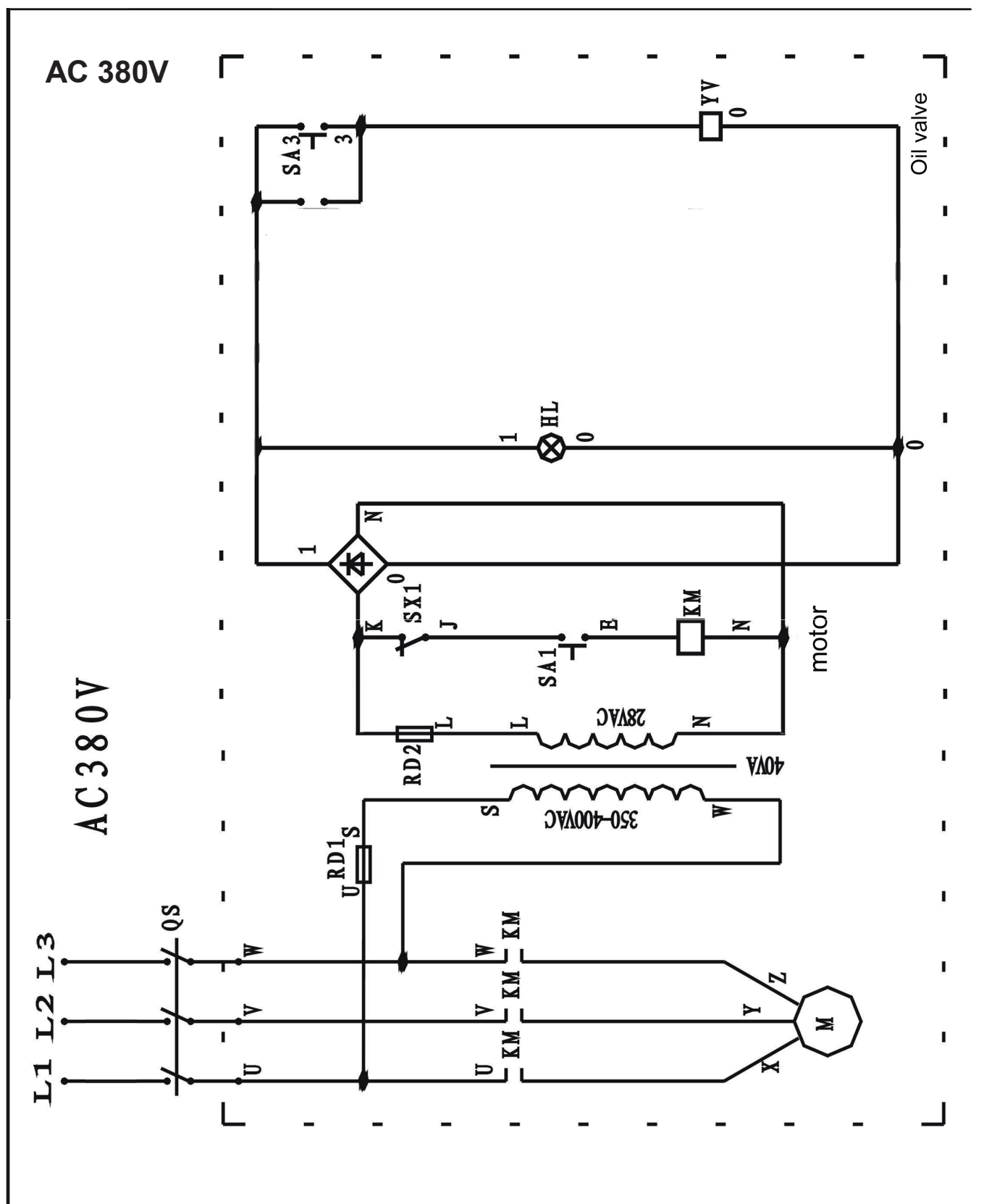


1	Main cylinder
2	Assistant cylinder
3	Electric release valve
4	Lowering throttle valve
5	Motor
6	Coupling
7	Gear pump
8	One way valve
9	Over flowing valve
10	Cushion valve

WIRING DIAGRAM







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 AUTOTOL user and are not satisfied with the AUTOTOL 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.
- AUTOTOL 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 AUTOTOL 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 AUTOTOL 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-3SM)

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-3SM), HS202601232165, HS202601232163

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



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