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Read the entire contents of this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. By proceeding with setup and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.

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Special Instructions



1. The loading process causes the damage of equipment, please contact with the manufacturer at first time.
2. Design and manufacturing of the Safety performance has been considered. However, the training and careful Operation can also increase security. Did not read the instructions, may not operate or repair the equipment.
3. Look at the power of the motor plate , it shows the power supply and current status and other requirements, the machine must be connected electricity by professional and qualified electrician.
4. The company have all rights about the machine, include the products are improved and modified the structure and dimensions without notice. Update of previous sales products without any obligations.
5. Please read it carefully and fill in the "warranty card" of this manual, send it back to the dealer and the company for the record. It is used as the basis of providing after-sales service. Otherwise it be deemed abandoned automatically enjoy the rights of the corresponding service responsibility conceited.
6. Don't allow to increase more than the rated lifting weight of the car.
7. Please carefully read the warnings on the equipment.

Maintenance and inspection instructions

Daily maintenance and inspection

Check up the position of safety lock in the process of operation

Check up the vehicle mode to be locked, Check up the working situation of the safety lock of the lift between the lifting carriage and lock bar, rotation –angle lock equipment of lift arms and so on.

Check- up whether the hydraulic fittings, oil pipes and other parts leak oil .

If with the chain institutions to check - up the chain connection situation - bent, broken, and loosen.

Check- up whether the cables are connected, bent, broken, and loosen.

Check-up the wire rope wear in the process of lifting.

Check-up whether all the shaft retaining rings are connected, they must be reliable connection.

Check-up the connection of all bolts, nuts, and screws, found loose must tighten immediately

Check-up whether the wire and switch is damaged

Check-up the foundation strength around the Expansion bolts.

Check-up the condition of swing arms, such as serious deformation must be replaced.

Keep the column base plate clean, prevent the dust, grease and other corrosive substances to hurt the lift. Ensure that the swing arm lock is meshing and reliable when it works.

Weekly maintenance and inspection

Check the strength of expansion bolts and connection

Check-up the foundation strength around the expansion bolts and connections.

Inspect the oil level height of the hydraulic oil box.

Check-up and tight the loosen bolts, nuts and screws

Check-up whether the cables are connected, bent, broken, and loosen

If with the chain institutions to check the oil cylinder roller assembly - connecting the plate of oil cylinder and roller pin is worn

Maintenance and inspection every year

If you have any chain agencies require the chain lubrication.

The plastic sliders and column inside where contact with the slide block use grease lubrication.

Replace the hydraulic oil

1. Use and directions for use

The machine is more advanced repairing and maintenance device. It was used in lifting under 10000lbs of the repair and maintenance of all kinds of small cars, overcome the shortcomings of old type repair, with a small field, the advantages of less investment, get high efficiency, is the ideal of modern automobile repair industry products.

2. Technical Parameters

Lifting Capacity	(Rated parameters)	11000lbs
Lifting Height	Max	1850mm/72.83"
Lifting time	up	45—60s
	down	15—25s
Angle of swing arm		90 °
Drive mode		Electricity and hydraulic
Net weight		570kg

3. Safety device

Hydraulic system is equipped with self-locking device, the master column equipped with machinery insurance, driven column is equipped with the chain (steel wire rope) suddenly break insurance system.

4. The main structure and working principle

1. Main structure

chassis plate and two columns on one side, a master column, and a driven column, pillar with bracket by chain (steel wire rope) traction connection, guide wheel bracket between columns with three groups and four groups of guide pulley, each bracket to install a long a short two swing arms, form a four-point support under the working of the oil cylinder, through the iron bar (steel wire rope). It smooth lifting, rotating sleeve structure is used to arm, rotating and scaling, ensure accurate support seat, safety.

2. Working Principle

Mast column is equipped with hydraulic device, the stroke amplification mechanism, through the pulley block, using the chain (steel wire rope) tract the mast and driven lifting carriages of lift arms, make them work in synchronous movement.

5. Installation

1. Foundation

In order to ensure the equipment is smooth, the use of safe, lay the foundation before installation.

2. Installation

Chassis plate put on a good foundation, and Levelness is measured with a spirit level, adopt suitable anchor bolt tightening, the lifting Carriage installed on the chassis (arm) to the inside, on the threaded hole, each with bolts and washers and tighten.

3. The installation of chain (steel wire rope)

Chain (steel wire rope) by the driven column, through the chassis frame to active column on the bracket, with a nut. Through the chain on the bracket (steel wire rope) the adjustment of the bolt nut to adjust bracket height, ensure highly consistent.

6. Adjustment of Equipment

Preparation before adjustment

1. Plastic sliding blocks of lifting carriage contact surface filling grease, from top to bottom all the smooth sliding surfaces.
2. Injecting with N32 or N46 anti-wear hydraulic oil in oil tank.
3. According to the conditions of the motor nameplate to connect the power supply, three in the direction of the rotation of the motor, please notice direction of motor.

Adjustment and Operation

1. Check the motor power supply is installed correctly.
2. Check whether all the connecting bolts fastening.
3. Press Up button, the lifting Carriage will rise. Loose the UP button, the Lifting Carriage will stop. If the lifting Carriage will fall, must pull the safety lock after press the unloading hydraulic power unite handle, The lifting carriage began to decline, loosen the unloading handle, the lifting carriage stopped falling. (Note: repair work is that after the car to the required height, should press oil unloading handle, make the safety lock be locked, ensure the safety of the operation).
4. Due to the newly installed in hydraulic system may be air in oil pipes, rising and falling can be repeated several times.

The matters needing attention when it lifts the car

All kinds of car's centre of gravity position is different, should first understand the position of the car, car drive on the lifting machine, to make the centre of gravity is close to the plane formed of two columns. Adjust swing arm, make strong supported point to support on the car.

Do not open the cover of post circled hole when the equipment is switched on.

Read the warnings seriously.

Hydraulic valve has been adjusted before delivery, Users are not allowed to adjust itself, Otherwise the user's will take charge of everything.

Lifting machine is on the rise and fall, under the car may not someone or other objects such as repair tools, there are no persons in potentially dangerous positions.

Fig. 1 Technical Specifications

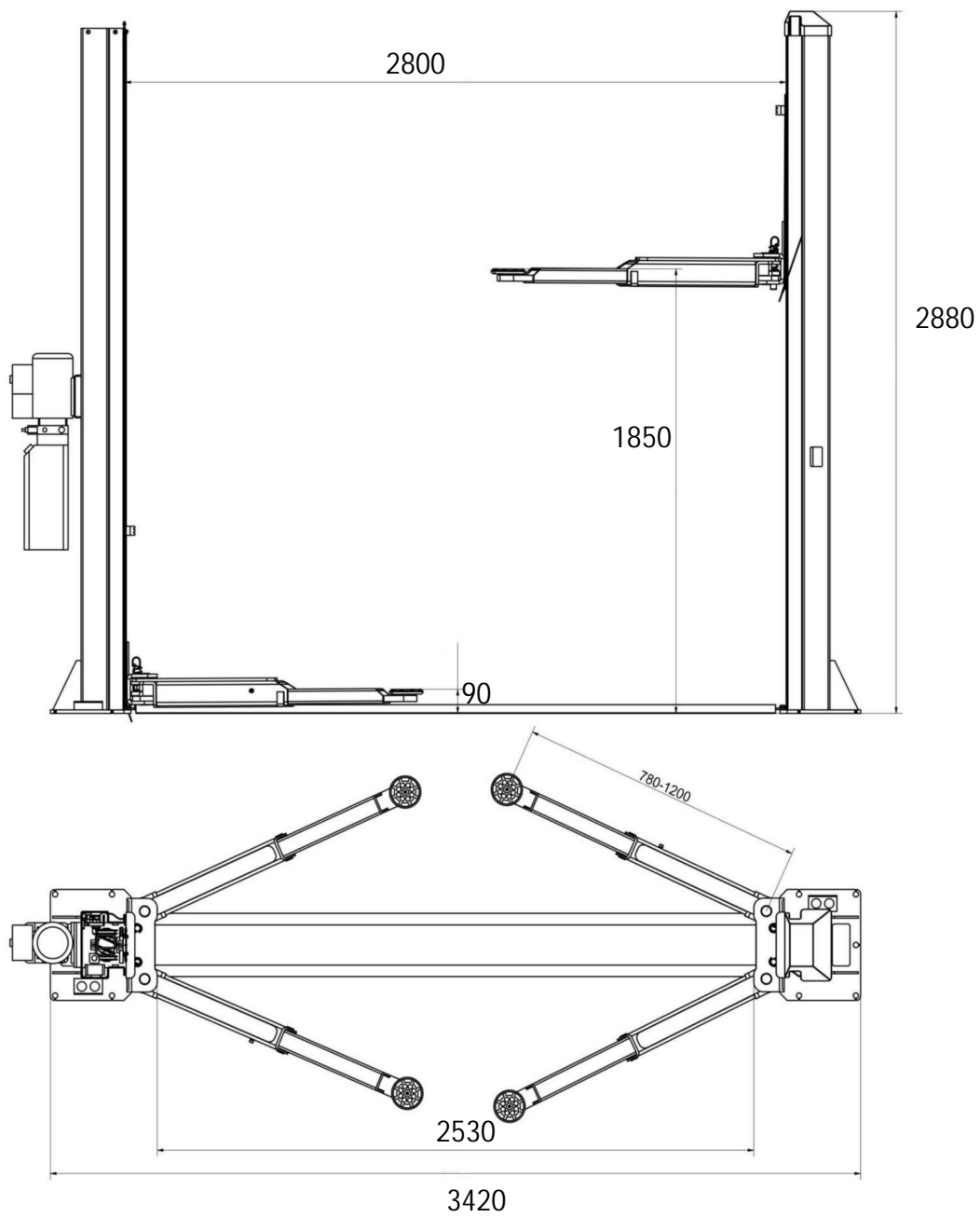


Fig. 2 Steel wire ropes installation

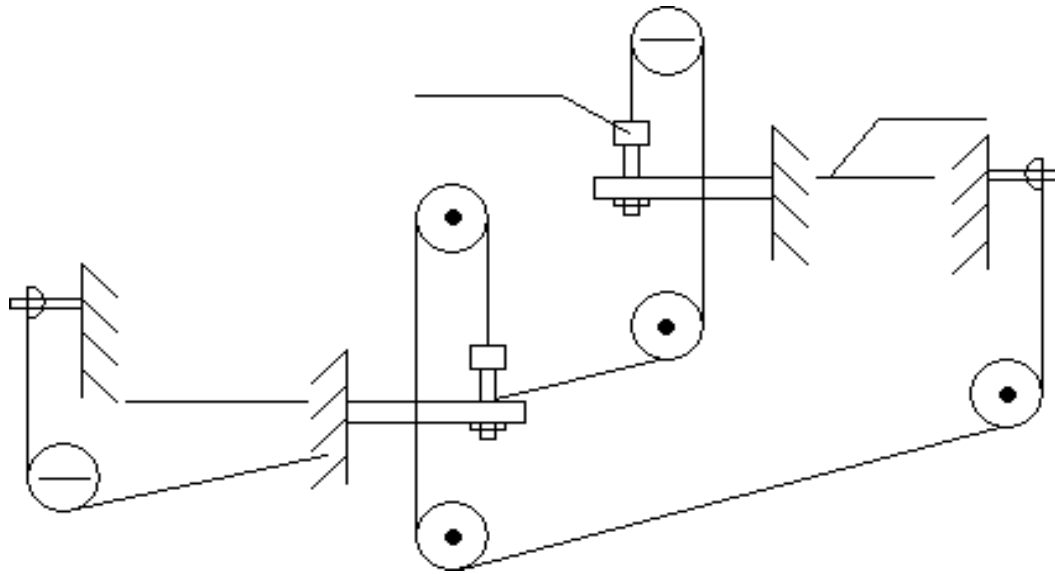
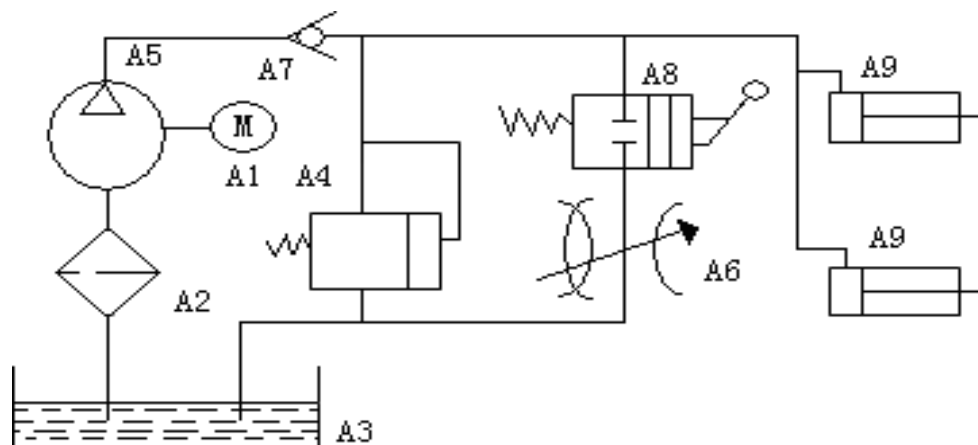
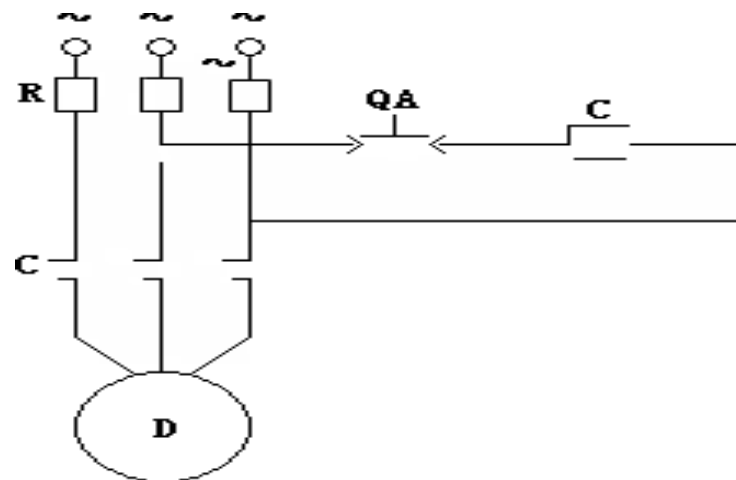


Fig.3 Hydraulic system diagram 3



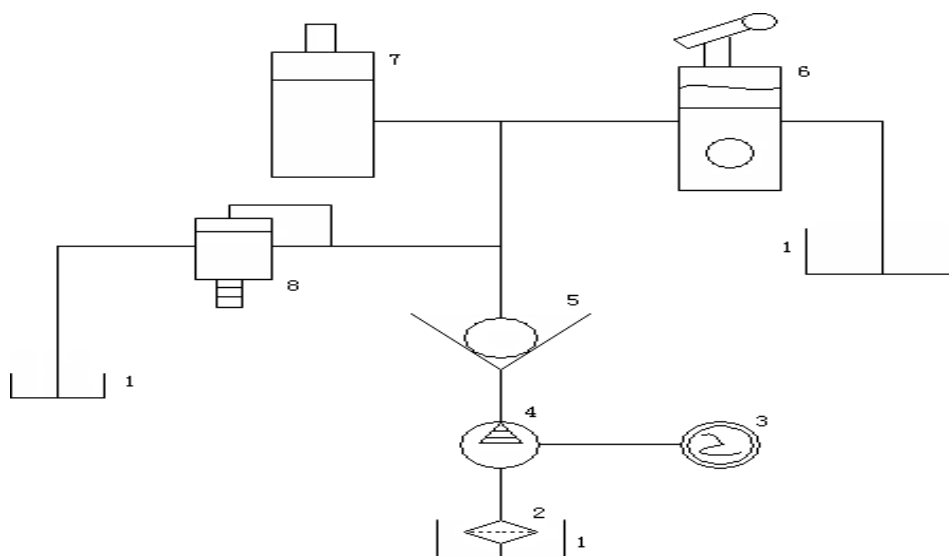
A9	Oil cylinder			2	
A8	Manual Valve			1	
A7	Check Valve			1	
A6	Throttle Valve		(decline)	1	
A5	Oil pump			1	
A4	Overflow valve			1	
A3	Oil tank			1	10Liter
A2	Oil Filter			1	
A1	Motor		220V 60HZ, 2.2Kw	1	Single phase
No.	Name	Model	Specifications	PCS	Remark

Fig.4 Electrical schematic diagram



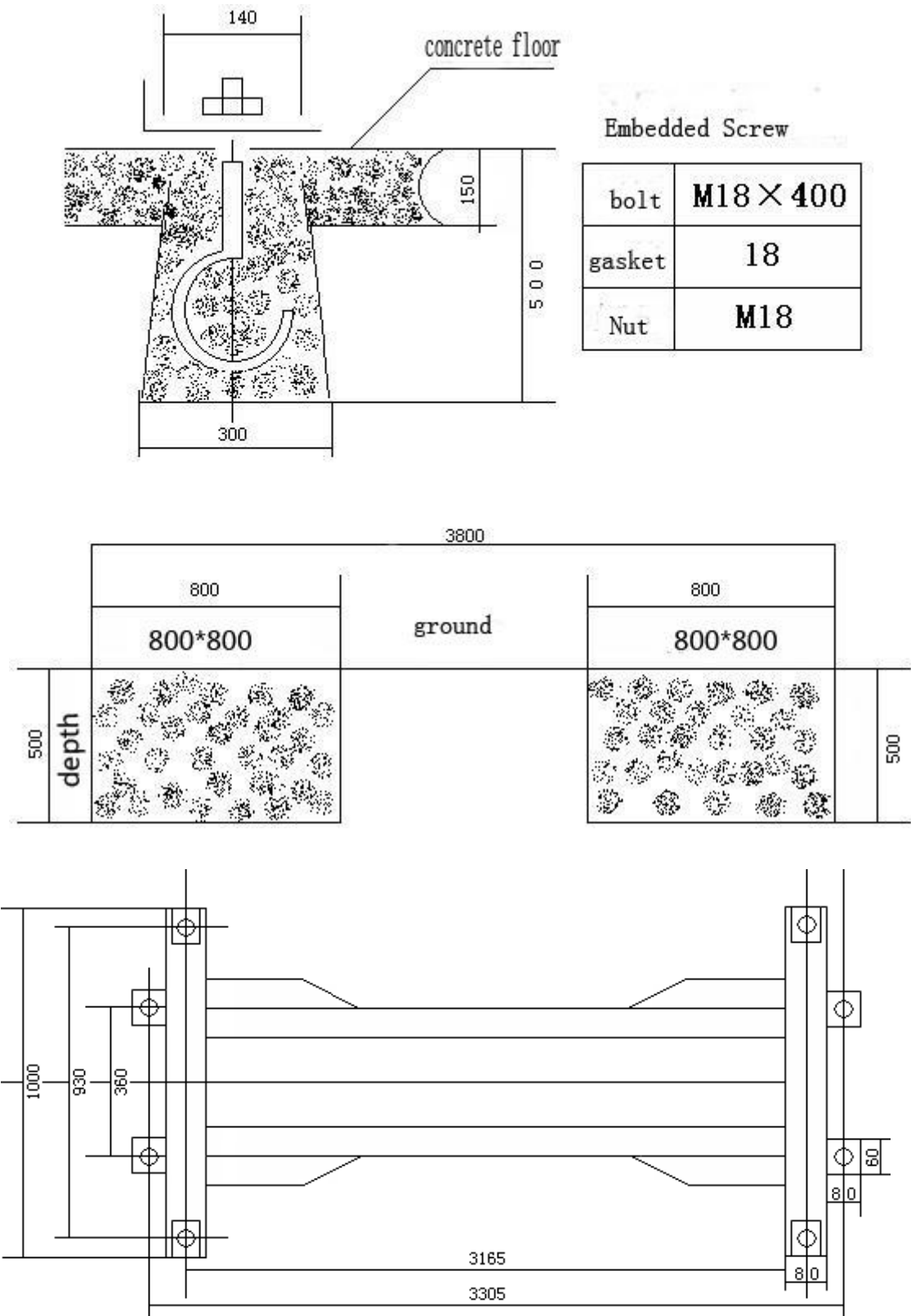
		380V	110V
Code Name	Name	Model No.	Model No.
R	Fuse	PL115A	Do not set fuse
C	Ac contactor	QC10-10	DC12-20
D	Asynchronous motor	Y90L-2	YC112-4
QA	Start switch	LK19K	LX19K

Fig.5 Hydraulic principle diagram



1.Oil Tank	2.Net oil filter TLW-12
3.MotorY90L-4	4.Oil Pump CBN-E3
5.Check Valve	6、 Manual Valve
7.Oil Cylinder	8.Overflow Valve

Fig.6 Foundation



Possible Problems and Solutions

Problem	Possible cause	Solutions
The motor does not work	<ol style="list-style-type: none"> 1. Check up fuse 2. Check up whether voltage is normal 3. motor burned 4. start switch burned 5. limit switch burned 	<ol style="list-style-type: none"> 1. replacing the fuse 2. normal power to the motor 3. change the motor 4. replace the start switch 5. change the limit switch
The motor work, But it can't lift.	<ol style="list-style-type: none"> 1. motor reversal 2. pressure relief valve is open 3. the pump suction air 4. suction tubing leave the pump 5. oil level is low 	<ol style="list-style-type: none"> 1. Switch the input line of 2 phase 2. replace or clean pressure relief valve 3. tight into the tubing 4. tighten suction tubing 5. add the hydraulic oil
Lift will rise and decline slowly stop	<ol style="list-style-type: none"> 1. check whether there is sundry in the valve body 2. the pressure relieve valve is blocked 3. whether the oil pipe leaks oil . 	<ol style="list-style-type: none"> 1. Eliminate clutter in the valve body 2. remove clutter from the pressure relieve valve 3 repair or replacement
It can rise and fall but not rise and fall with the vehicle.	<ol style="list-style-type: none"> 1. the voltage is too low 2. the pressure relief valve with sundry 3. Overflow Valve is adjusted to working pressure. 4. overload lifting 	<ol style="list-style-type: none"> 1. install regulator 2. remove clutter from the pressure relief valve 3. appropriate adjustments to the pressure of work 4. according to the requirements of the lifting capacity
Lifting speed is slow or oil spill tank	<ol style="list-style-type: none"> 1. there is air in the oil 2. there are air in suction tubing 3. return pipe loose 	<ol style="list-style-type: none"> 1. there is air in the oil 2. there are air in suction tubing 3. return pipe loose
Rising or Falling is not level	<ol style="list-style-type: none"> 1. wire rope, no adjustment 2. above ground installation is not level 	<ol style="list-style-type: none"> 1. adjust the level 2. adjust the column level
The bolts cannot tight	<ol style="list-style-type: none"> 1. the hole is too large 2. concrete thickness, strength is not enough 	<ol style="list-style-type: none"> 1. drill again after casting 2. pouring the foundation again
Safety Lock does not work	<ol style="list-style-type: none"> 1. shaft, pin is rusted usually occur in the external damp places or rust cleaning area 2, insurance piece of tension spring break 	<ol style="list-style-type: none"> 1. the lift machine rose to the highest in the slider and column joint filling lubricating oil 2. change the tension spring

Warranty card

The user name		Telephone		Date	
Add.					
Product number		serial number		Invoice no	
The warranty place name				The warranty phone	

Maintenance record card

Date	Maintenance content	Content of the replacement parts				handlers	Remark
		Name	Model	Specifications	PCS		

Warranty conditions

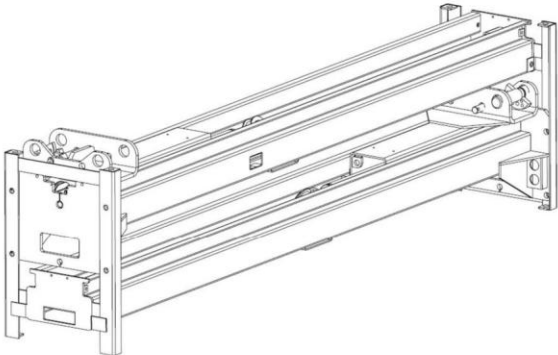
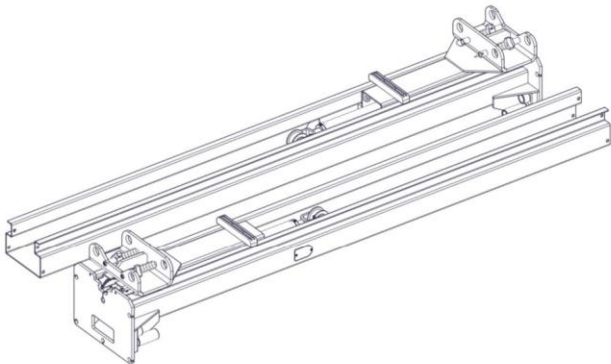
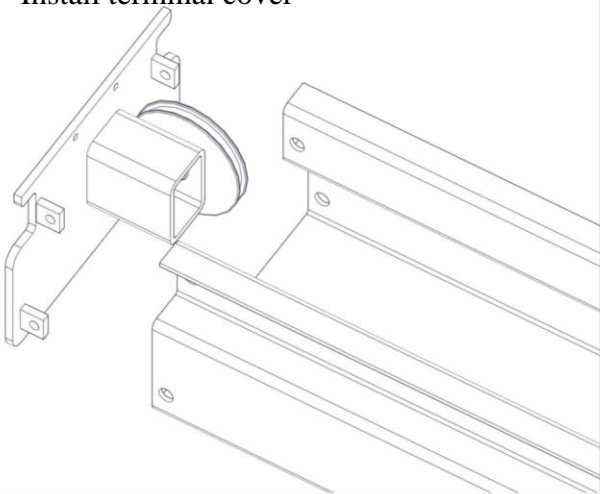
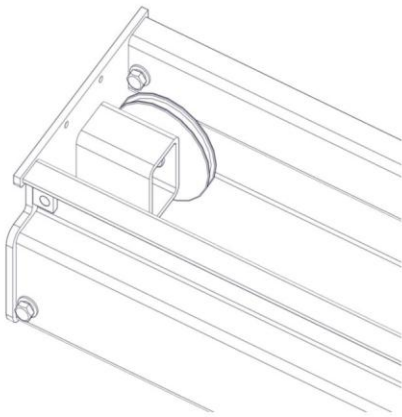
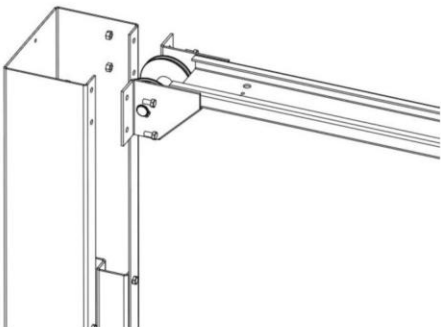
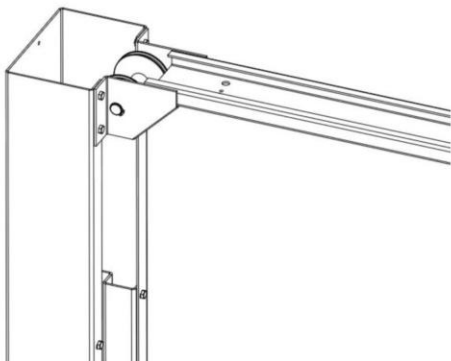
1. within one year from the delivery date, under the condition of normal use and the user according to the journal instruction manual operation requires the use of this product fails, my company have limited free maintenance.


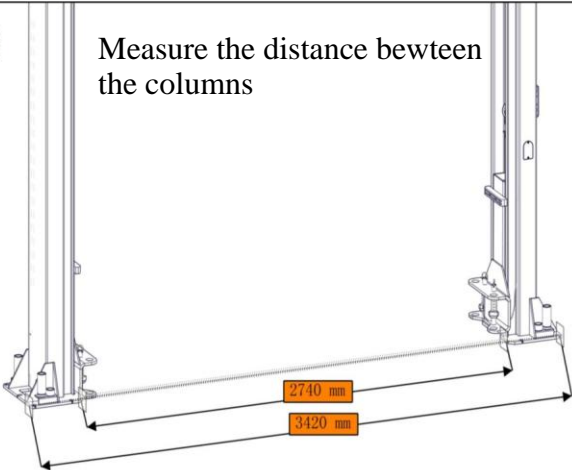
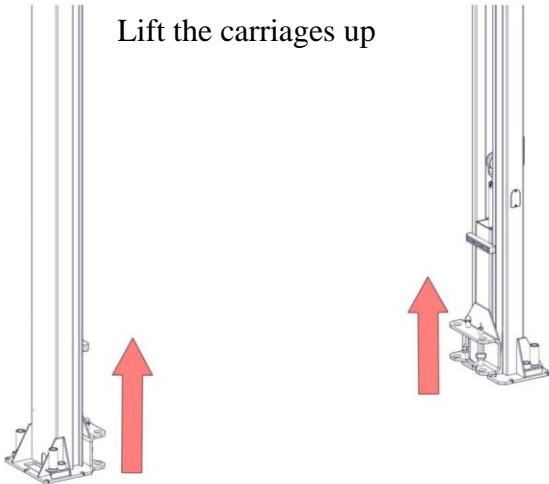
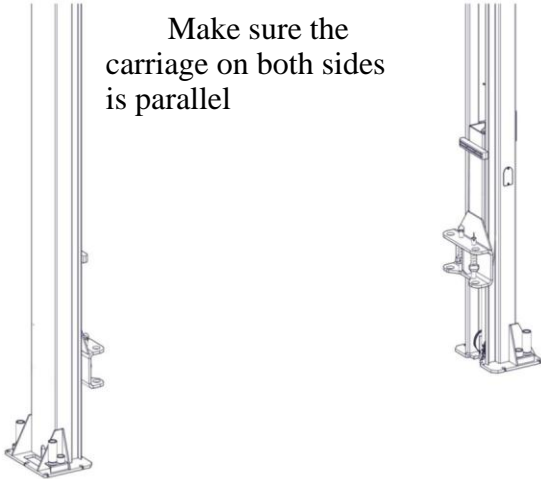
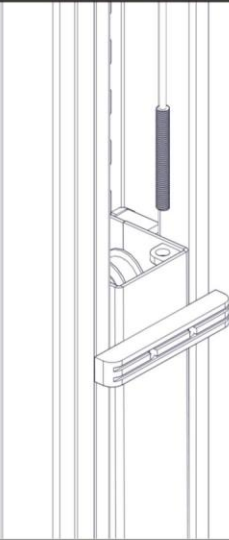
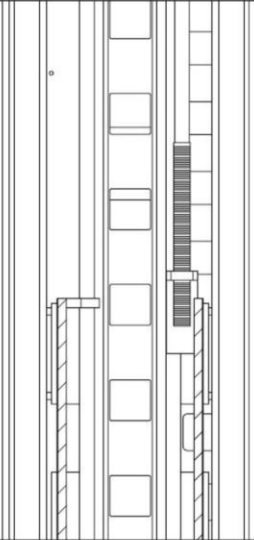
2. The warranty period when domestic demand for repair, warranty cards, invoices for the free service users. Replaced parts owned by the company.

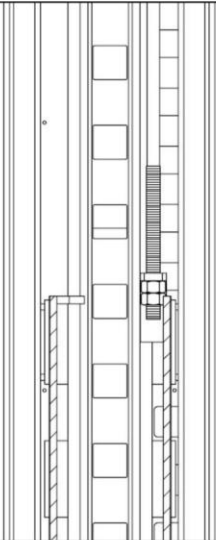
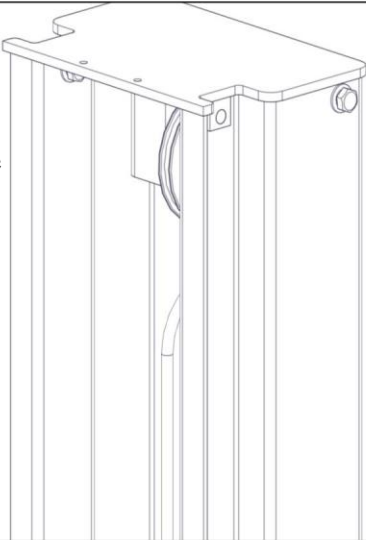
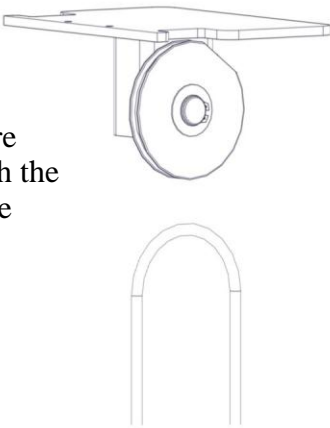
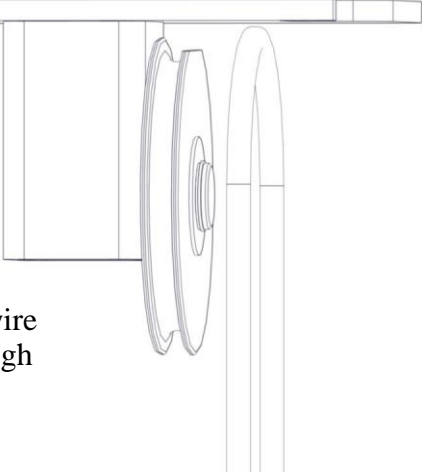
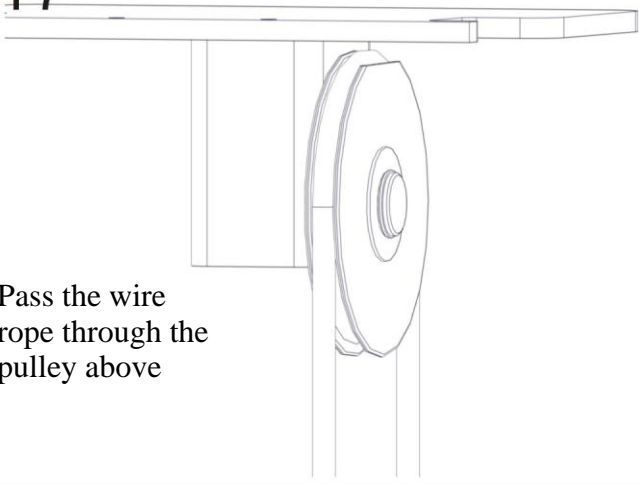
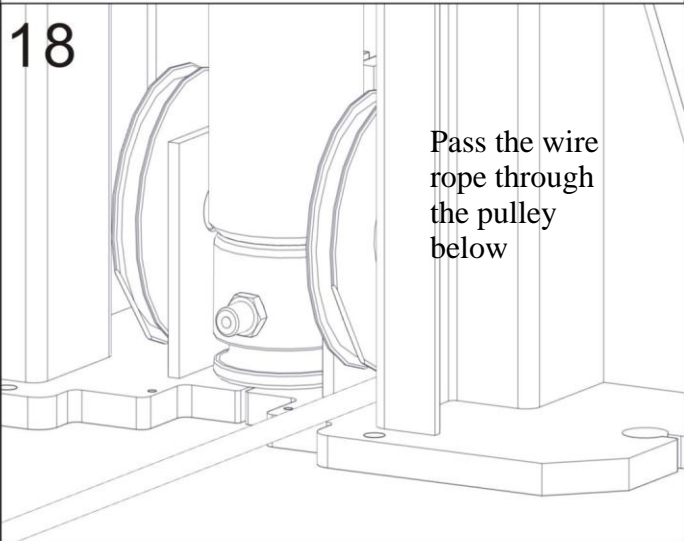
3. Do not belong to the warranty scope: a. basis for transportation, improper use, insufficient strength, power is not in conformity with the provisions, not operated according to the operation instruction handbook "damage caused by not warranty scope; B. more than free service period, need to offer service fees according to the cost price of the company; C. the vulnerability does not belong to the warranty scope.

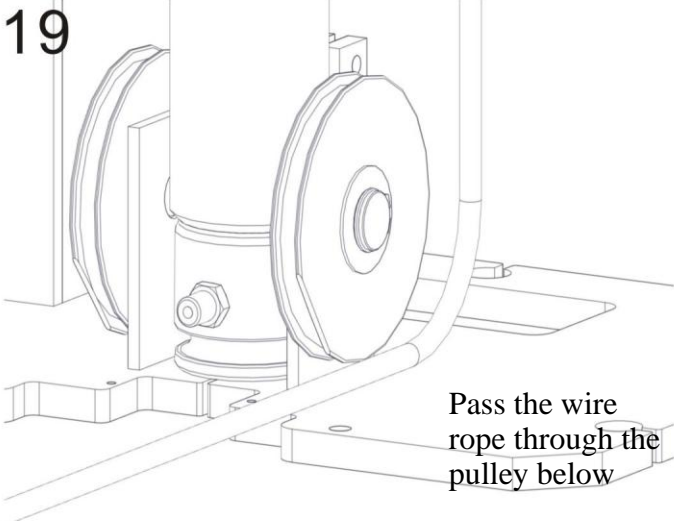
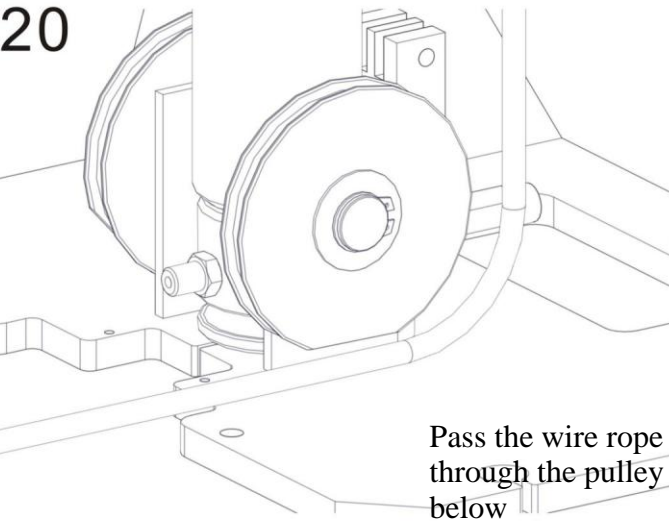
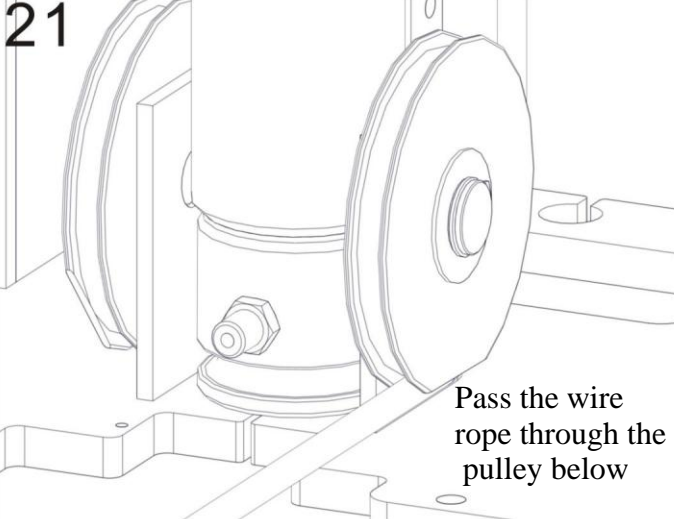
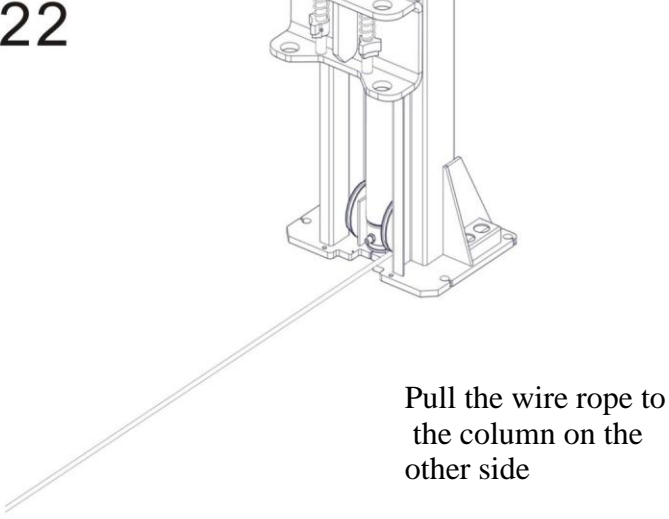
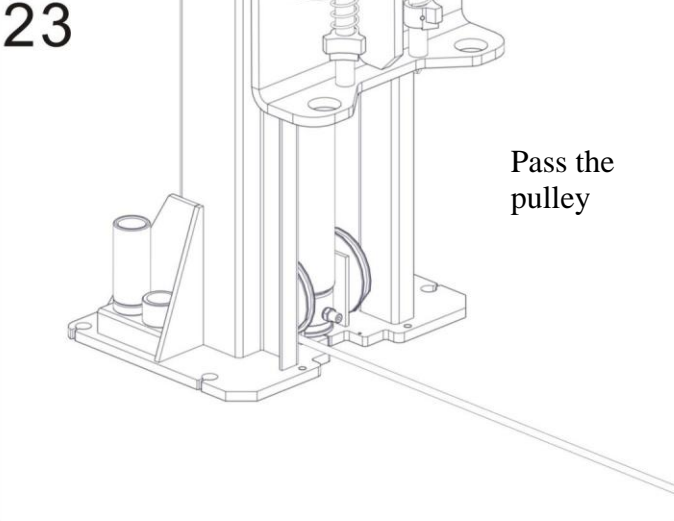
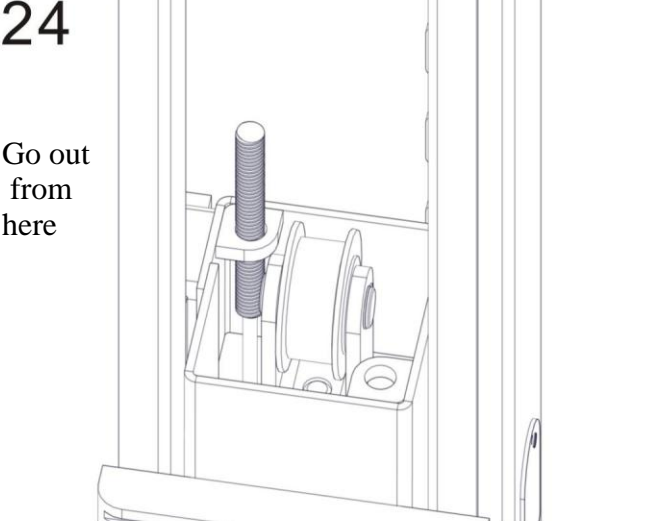
The "ME-1000" below
the picture indicate the
correct installation steps.

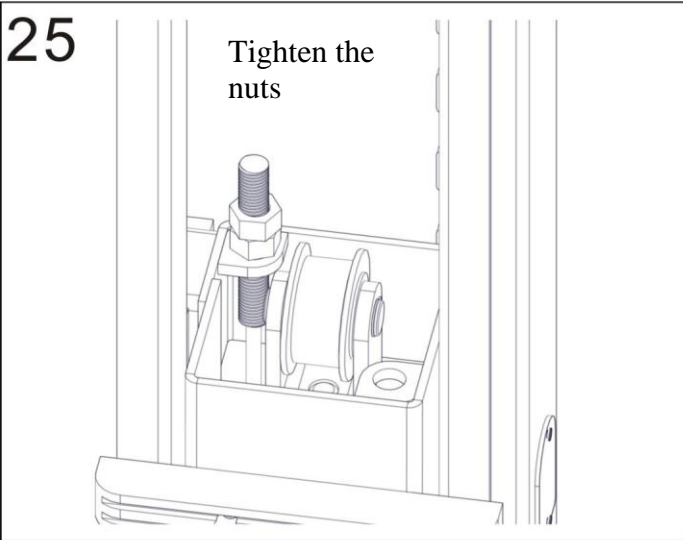
INSTALLATION MANUAL

<div>1 Unpack</div> <div>A perspective view of the ME-1000 assembly, showing a long metal rail with various mounting brackets and a terminal block at one end.</div>	<div>2 Takeout parts</div> <div>A perspective view of the ME-1000 assembly, showing the rail and terminal block from a different angle, highlighting the internal components.</div>
<div>ME-1000</div>	<div>ME-1000</div>
<div>3 Install terminal cover</div> <div>A close-up view of the terminal block with a cover being installed. The cover is a rectangular piece that fits over the terminal block.</div>	<div>4 Install terminal cover</div> <div>A close-up view of the terminal block with the cover installed, showing the cover's position relative to the terminal block.</div>
<div>ME-1000</div>	<div>ME-1000</div>
<div>5</div> <div>A side view of the ME-1000 assembly, showing the rail and terminal block from the side.</div>	<div>6</div> <div>A side view of the ME-1000 assembly, showing the rail and terminal block from the side, with a different perspective than Diagram 5.</div>

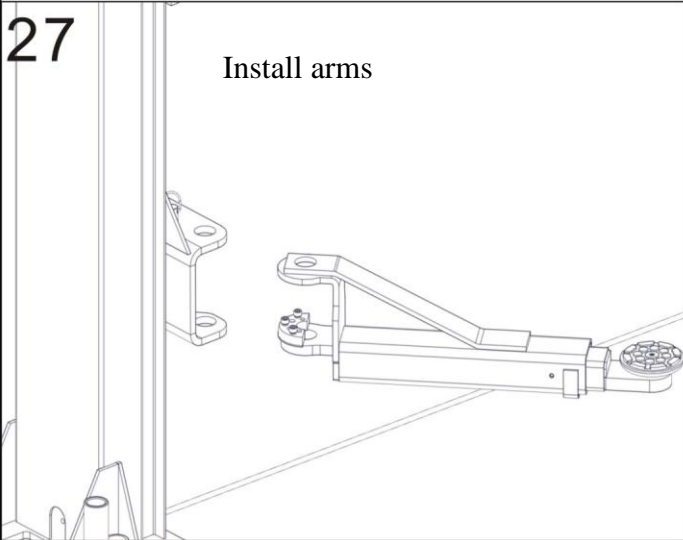
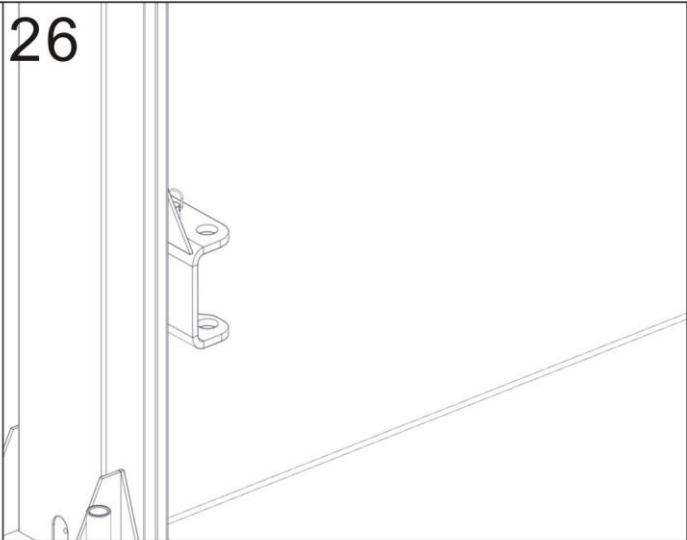
<div>7</div> <div>Stand the column up</div> <div></div>	<div>8</div> <div>Measure the distance between the columns</div> <div></div>
<div>ME-1000</div>	<div>ME-1000</div>
<div>9</div> <div>Lift the carriages up</div> <div></div>	<div>10</div> <div>Make sure the carriage on both sides is parallel</div> <div></div>
<div>ME-1000</div>	<div>ME-1000</div>
<div>11</div> <div>Thread the wire rope through here</div> <div></div>	<div>12</div> <div>Leave about two inches in length</div> <div></div>
<div>ME-1000</div>	<div>ME-1000</div>

<div>13</div> <div></div> <div>Tighten the nut to secure</div>	<div>14</div> <div></div> <div>Pass the wire rope through the pulley above</div>
ME-1000	ME-1000
<div>15</div> <div></div> <div>Pass the wire rope through the pulley above</div>	<div>16</div> <div></div> <div>Pass the wire rope through the pulley above</div>
ME-1000	ME-1000
<div>17</div> <div></div> <div>Pass the wire rope through the pulley above</div>	<div>18</div> <div></div> <div>Pass the wire rope through the pulley below</div>
KT-H100	KT-H100

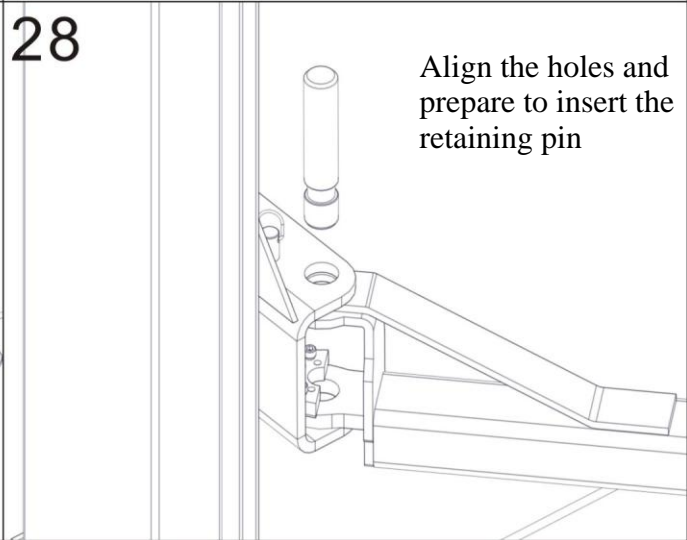
<p>19</p>  <p>Pass the wire rope through the pulley below</p>	<p>20</p>  <p>Pass the wire rope through the pulley below</p>
ME-1000	ME-1000
<p>21</p>  <p>Pass the wire rope through the pulley below</p>	<p>22</p>  <p>Pull the wire rope to the column on the other side</p>
ME-1000	ME-1000
<p>23</p>  <p>Pass the pulley</p>	<p>24</p>  <p>Go out from here</p>
ME-1000	ME-1000



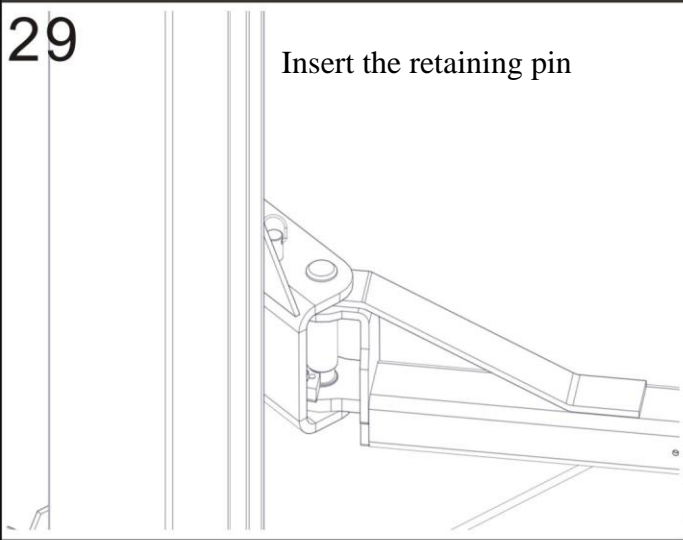
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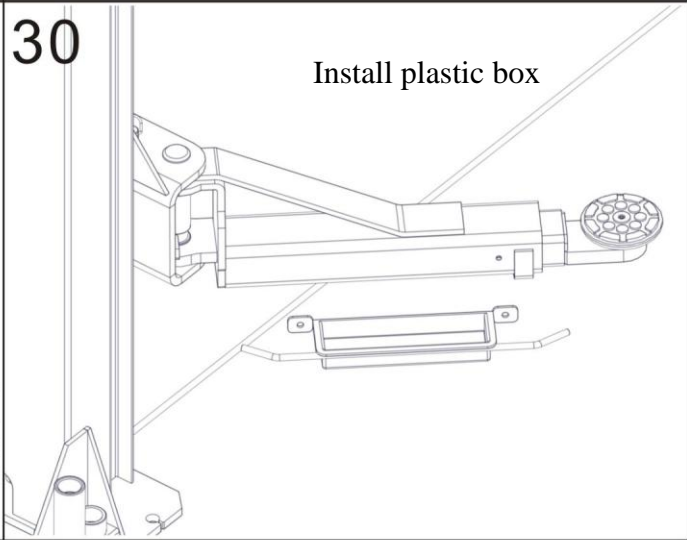
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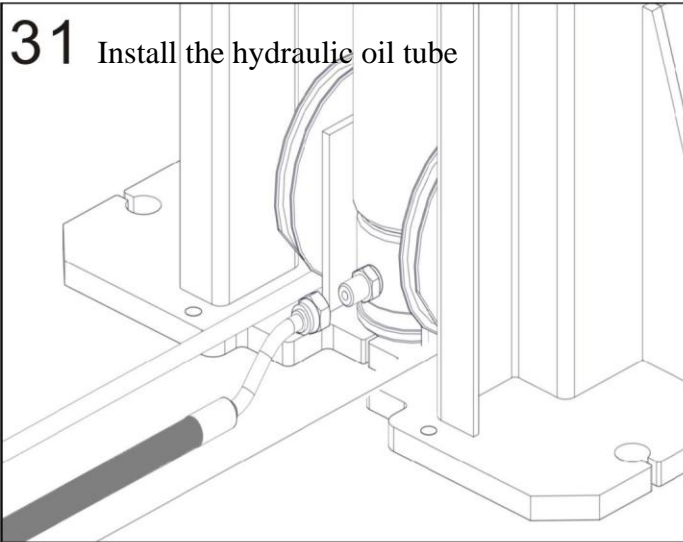


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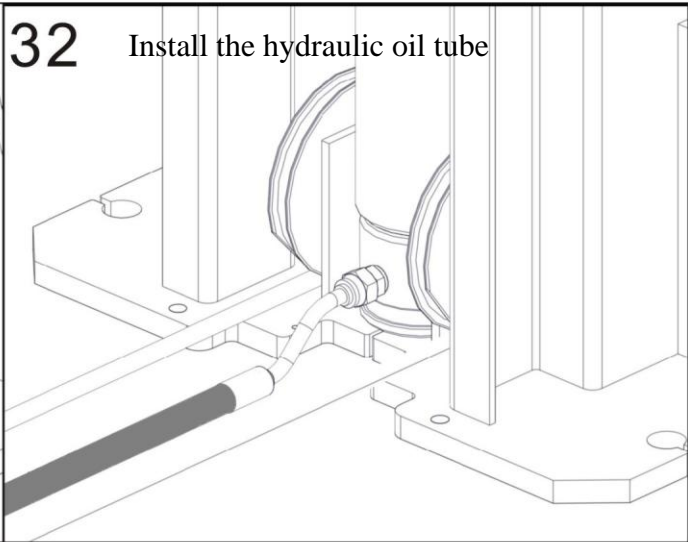
ME-1000

31 Install the hydraulic oil tube



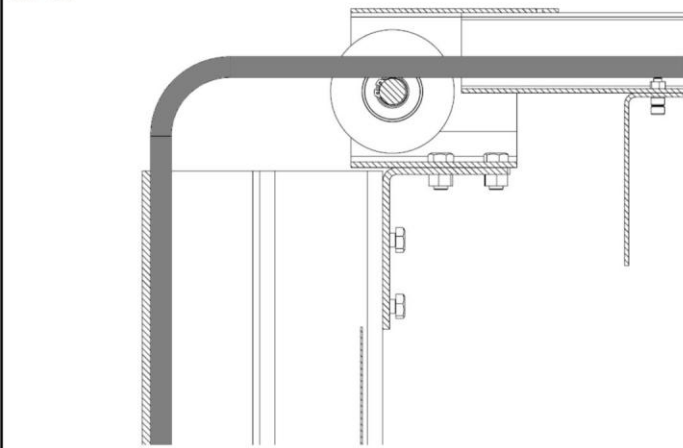
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32 Install the hydraulic oil tube

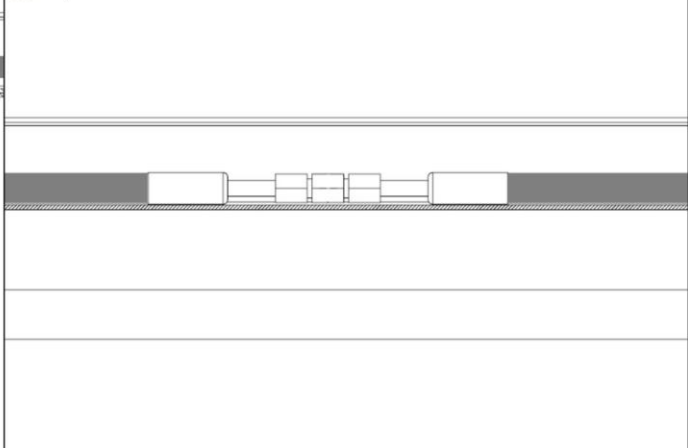


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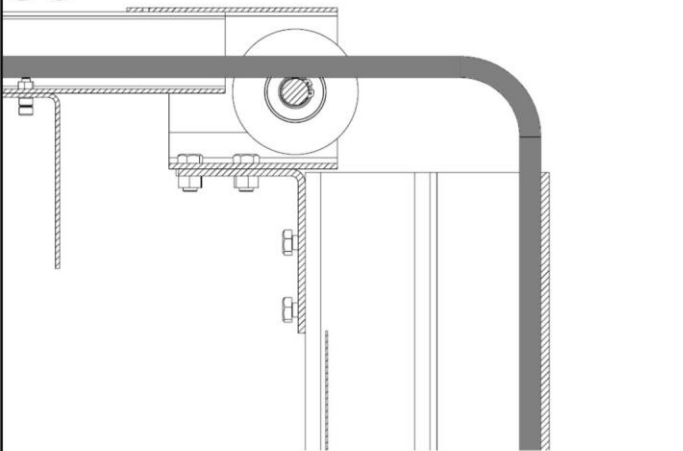
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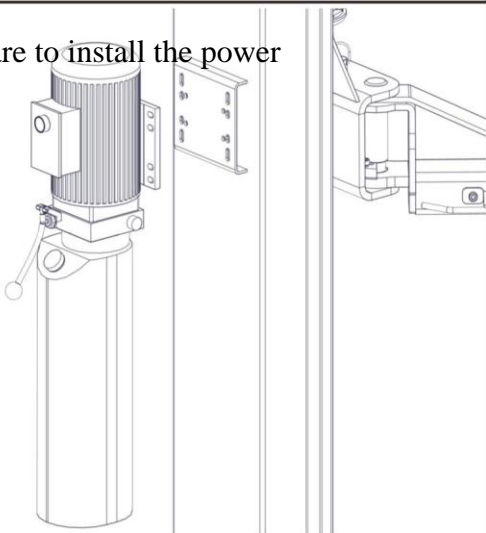


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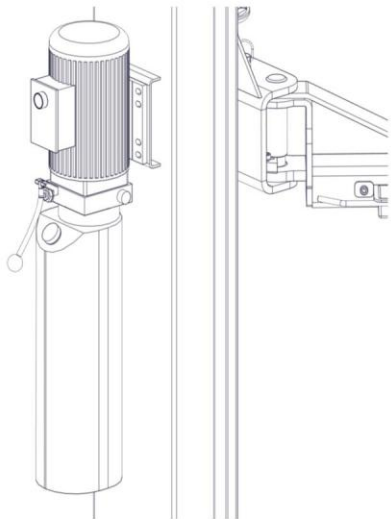
Prepare to install the power unit



ME-1000

37

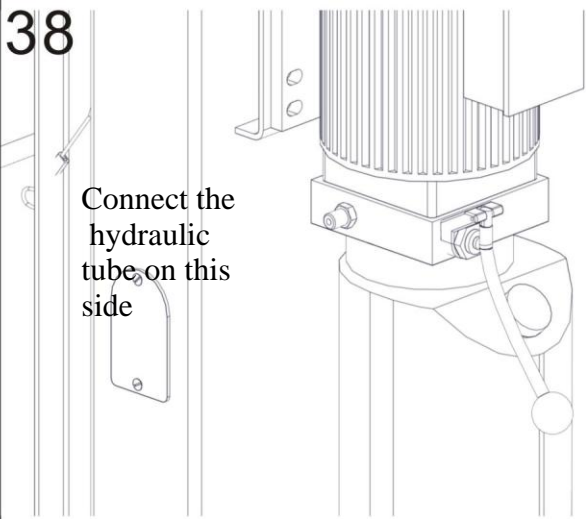
Tighten the nut
to secure



ME-1000

38

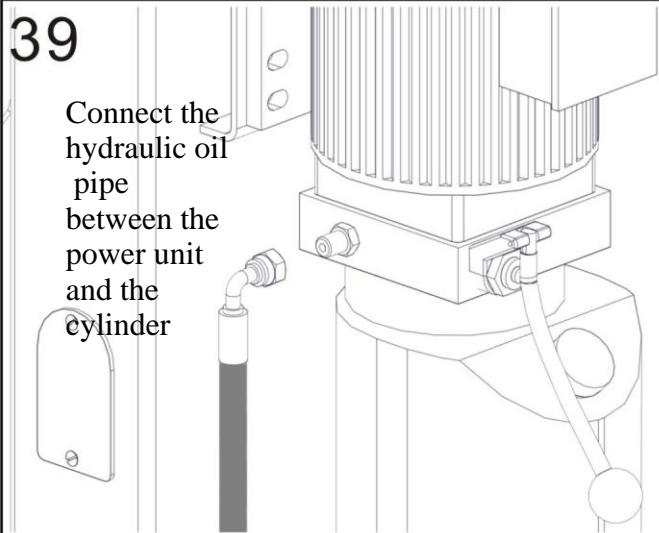
Connect the
hydraulic
tube on this
side



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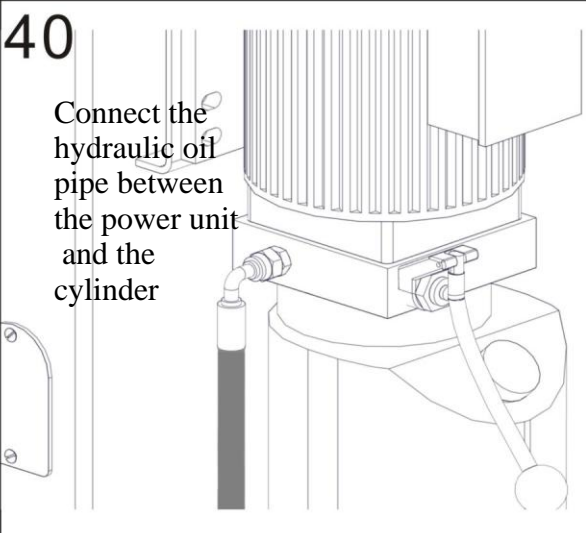
Connect the
hydraulic oil
pipe
between the
power unit
and the
cylinder



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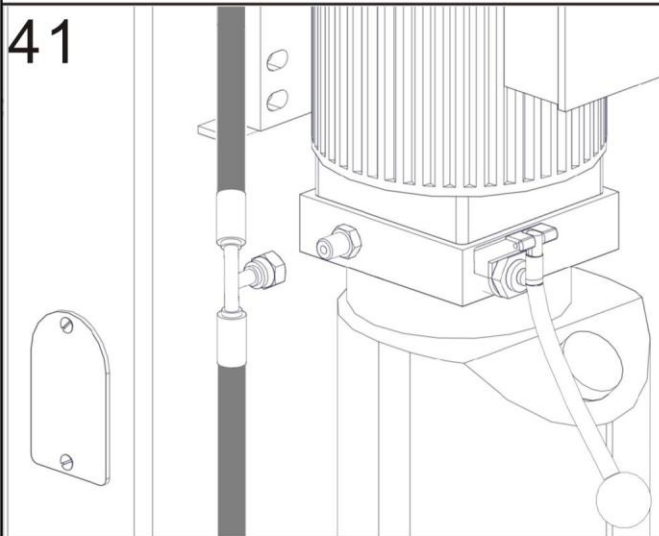
40

Connect the
hydraulic oil
pipe between
the power unit
and the
cylinder

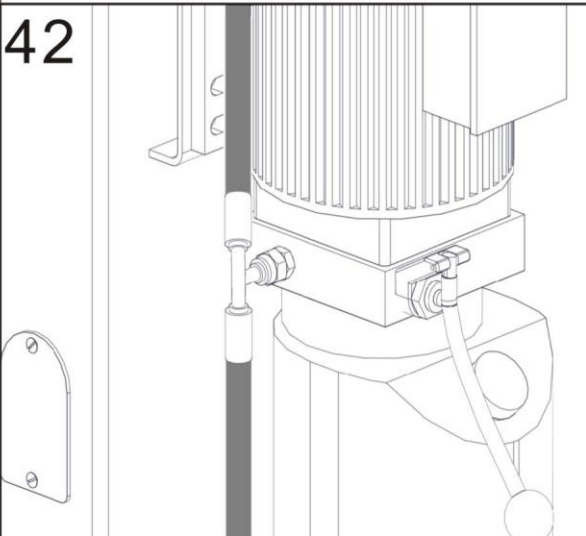


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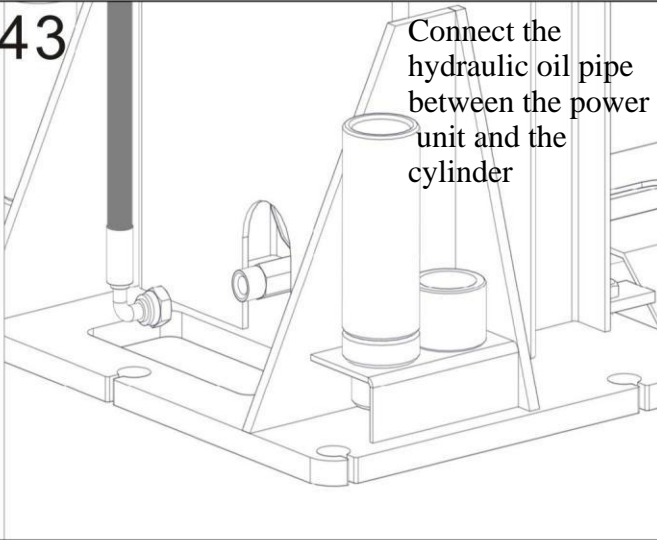


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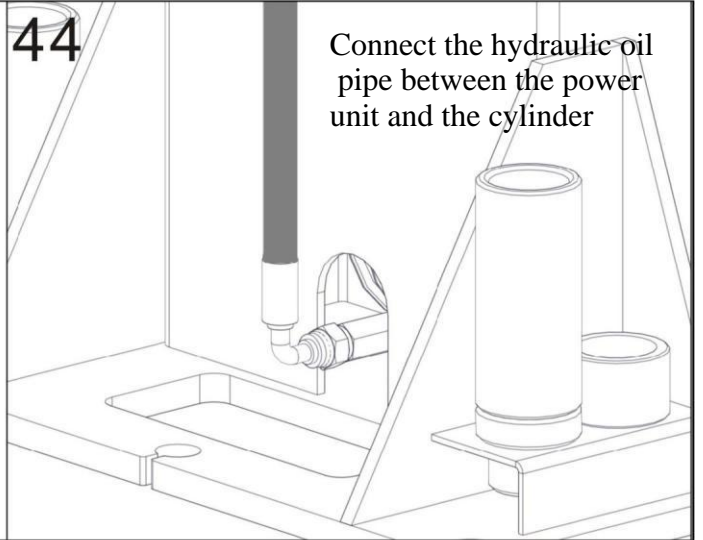
Connect the hydraulic oil pipe between the power unit and the cylinder



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Connect the hydraulic oil pipe between the power unit and the cylinder



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If your lift is **not** functioning correctly, you must take it out of service until it is fixed.
All repair work must be performed by qualified personnel. If your organization has Lockout/Tagout policies, implement them after connecting the Lift to the power source.

LIFT WILL NOT RAISE

POSSIBLE CAUSE

1. Air in oil, (1,2,8,13)
2. Cylinder binding, (9)
3. Cylinder leaks internally, (9)
4. Motor run backward under pressure, (11)
5. Lowering valve leaks, (3,4,6,10,11)
6. Motor runs backwards, (7,14,11)
7. Pump damaged, (10,11)
8. Pump won't prime, (1,8,13,14,3,12,10,11)
9. Relief valve leaks, (10,11)
10. Voltage to motor incorrect, (7,14,11)

REMEDY

INSTRUCTION

- | | |
|--|--|
| 1. Check for proper oil level..... | The oil level should be up to the bleed screw in the reservoir with the lift all the way down. |
| 2. Bleed cylinders..... | See Installation Manual |
| 3. Flush- Release valve to get rid of.....
possible contamination | Hold release handle down and start unit allowing it to run for 15 seconds. |
| 4. Dirty oil..... | Replace oil with clean Dexron ATF. |
| 5. Tighten all fasteners..... | Tighten fasteners to recommended torques. |
| 6. Check for free movement of release..... | If handle does not move freely, replace bracket or handle assembly. |
| 7. Check motor is wired correctly. | Compare wiring of motor to electrical diagram on drawing. |
| 8. Oil seal damaged or cocked..... | Replace oil seal around pump shaft. |
| 9. See Installation Manual..... | Consult Lift Manufacturer. |
| 10. Replace with new part..... | Replace with new part. |
| 11. Return unit for repair..... | Return unit for repair. |
| 12. Check pump-mounting bolts..... | Bolts should be 15 to 18 ft. lbs. |
| 13. Inlet screen clogged..... | Clean inlet screen or replace. |
| 14. Check wall outlet voltages and wiring..... | Make sure unit and wall outlet are wired properly. |

MOTOR WILL NOT RUN

POSSIBLE CAUSE

1. Fuse blown, (5,2,1,3,4)
2. Limit switch burned out, (1,2,3,4)
3. Microswitch burned out, (1,2,3,4)
4. Motor burned out, (1,2,3,4,6)
5. Voltage to motor incorrect, (2,1,7)

REMEDY

1. Check for correct voltage.....
2. Check motor is wired correctly.....
3. Don't use extension cords.....
4. Replace with new part.....
5. Reset circuit breaker/fuse.....
6. Return unit for repair.....
7. Check wall outlet voltage and wiring.....

INSTRUCTIONS

- Compare supply voltage with voltage on motor name tag. Check that the wire is sized correctly. N.E.C table 310-12 requires AWG 10 for 25 amps.
- Compare wiring of motor to electrical diagram on drawing.
- According to NEC: The size of the conductors should be such that the voltage drop would not exceed 3% to the farthest outlet for power. *Do not run motor at 115 VAC - damage to the motor will occur.
- Replace with new part.
- Reset circuit breaker/fuse.
- Return unit for repair.
- Make sure unit and wall outlet is wired properly. Motor must run at 208/230 VAC.

LIFT LOWERS SLOWLY OR NOT AT ALL

POSSIBLE CAUSE

1. Cylinders binding, (1)
2. Release valve clogged, (5,4,2,3)
3. Pressure fitting too long, (6)

REMEDY

1. See Installation Manual.....
2. Replace with new part.....
3. Return for repair.....
4. Check oil.....
5. Clean release valve.....
6. Replace fitting with short thread lead.....

INSTRUCTIONS

- Consult Lift Manufacturer.
- Replace with new part.
- Return for repair.
- Use clean 10-WT hydraulic oil or Dexron automatic transmission fluid only. If ATF is contaminated, replace with clean ATF and clean entire hydraulic system.
- Wash release valve in solvent and blow out with air.
- Replace fitting with short thread lead.

WILL NOT RAISE LOADED LIFT

POSSIBLE CAUSE

1. Air in oil, (1,2,3,4)
2. Cylinder binding, (5)
3. Cylinder leaks internally, (5)
4. Lift overloaded, (6,5)
5. Lowering valve leaks, (7,8,1,5,9)
6. Motor runs backwards, (10,12,9)
7. Pump damaged, (5,9)
8. Pump won't prime, (1,2,3,4,5,11,9)
9. Relief valve leaks, (8,5,9)
10. Voltage to motor incorrect, (10,12,5)

REMEDY

INSTRUCTIONS

- | | |
|---|--|
| 1. Check oil level..... | The oil level should be up to the bleed screw in the reservoir with the lift all the way down. |
| 2. Check/Tighten inlet tubes..... | Replace inlet hose assembly. |
| 3. Oil seal damaged or cocked..... | Replace oil seal and install. |
| 4. Bleed cylinders..... | See Installation Manual. |
| 5. See Installation Manual..... | Consult Lift Manufacturer. |
| 6. Check vehicle weight..... | Compare weight of vehicle to weight limit of the lift. |
| 7. Flush release valve..... | Hold release handle down and start unit allowing it to run for 15 seconds. |
| 8. Replace with new part..... | Replace with new part. |
| 9. Return unit for repair..... | Return unit for repair. |
| 10. Check motor is wired correctly..... | Compare wiring of motor to electrical diagram on power unit drawing. |
| 11. Inlet screen clogged..... | Clean inlet screen or replace. |
| 12. Check wall outlet voltage and wiring..... | Make sure unit and wall outlet is wired properly. |

IMPORTANT

If a vehicle becomes stranded in the air, follow all operation instructions as shown on pages 33 - 38.

If, after observing that all mechanical locks are released and the lift still fails to move following all standard operating procedures, immediately stop using the lift and contact the factory or a factory-approved service center for further instructions.

LIFT WILL NOT STAY UP

POSSIBLE CAUSE

1. Air in oil, (1, 2, 3)
2. Check valve leaks, (6)
3. Cylinders leak internally, (7)
4. Lowering valve leaks, (4, 5, 1, 7, 6)
5. Leaking fittings, (8)

REMEDY

1. Check oil level..... The oil level should be up to the bleed screw in the reservoir with the lift all the way down.
2. Oil seal damaged and cocked..... Replace oil seal around pump shaft.
3. Bleed cylinder..... Refer to Installation Manual.
4. Flush release valve..... Hold release handle down and start unit allowing it to run for 15 seconds.
5. Replace with new valve..... Replace with new valve.
6. Return unit for repair..... Return unit for repair.
7. See Installation Manual..... Consult Lift Manufacturer.
8. Check complete hydraulic system for leaks..... Tighten all hydraulics fittings and inspect all hoses.

INSTRUCTIONS