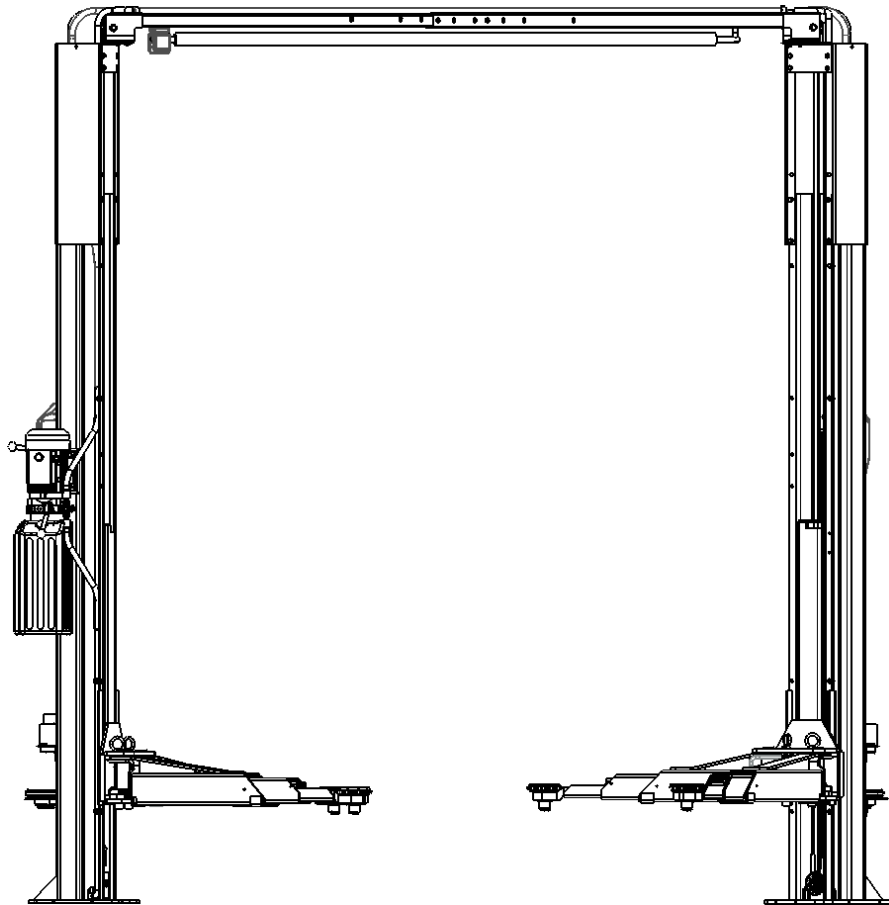


ZL110M

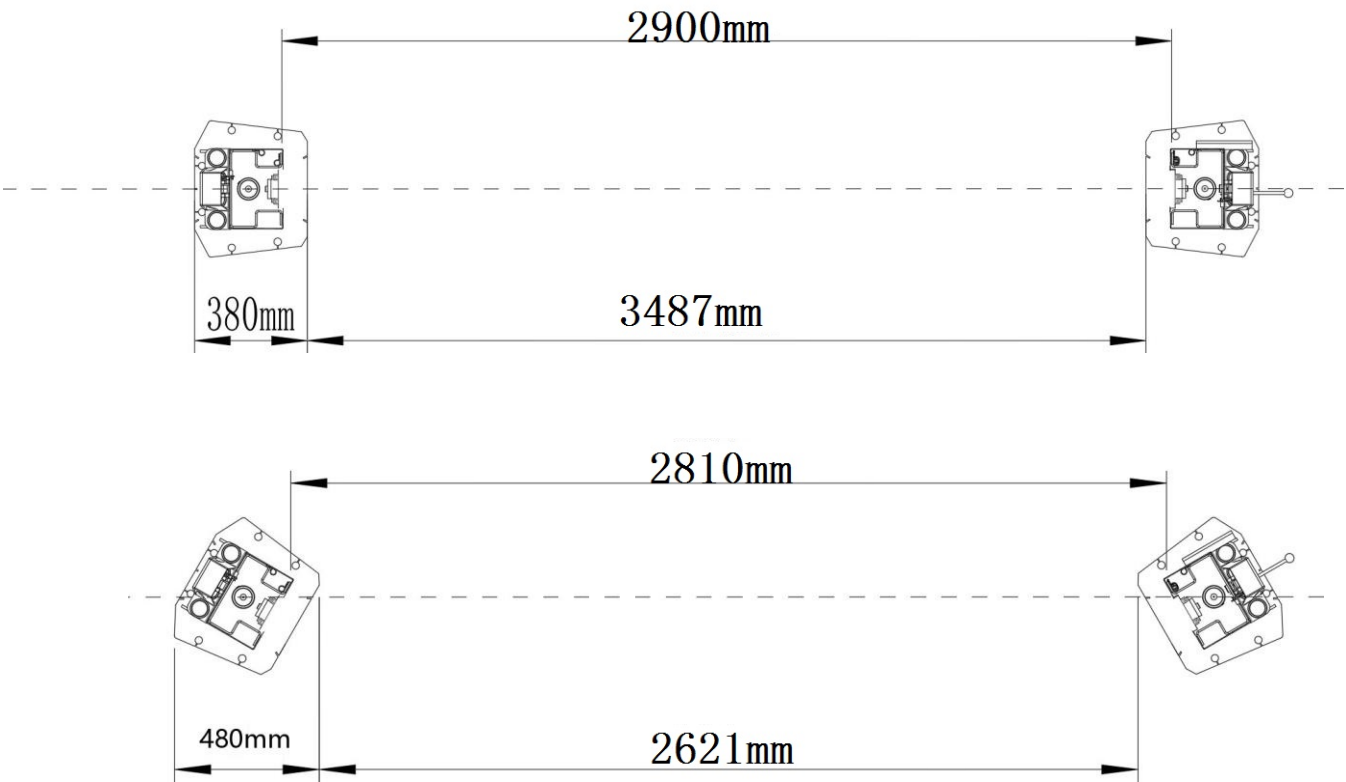
10,000 lbs. (4,536 kg.)

Installation Instructions

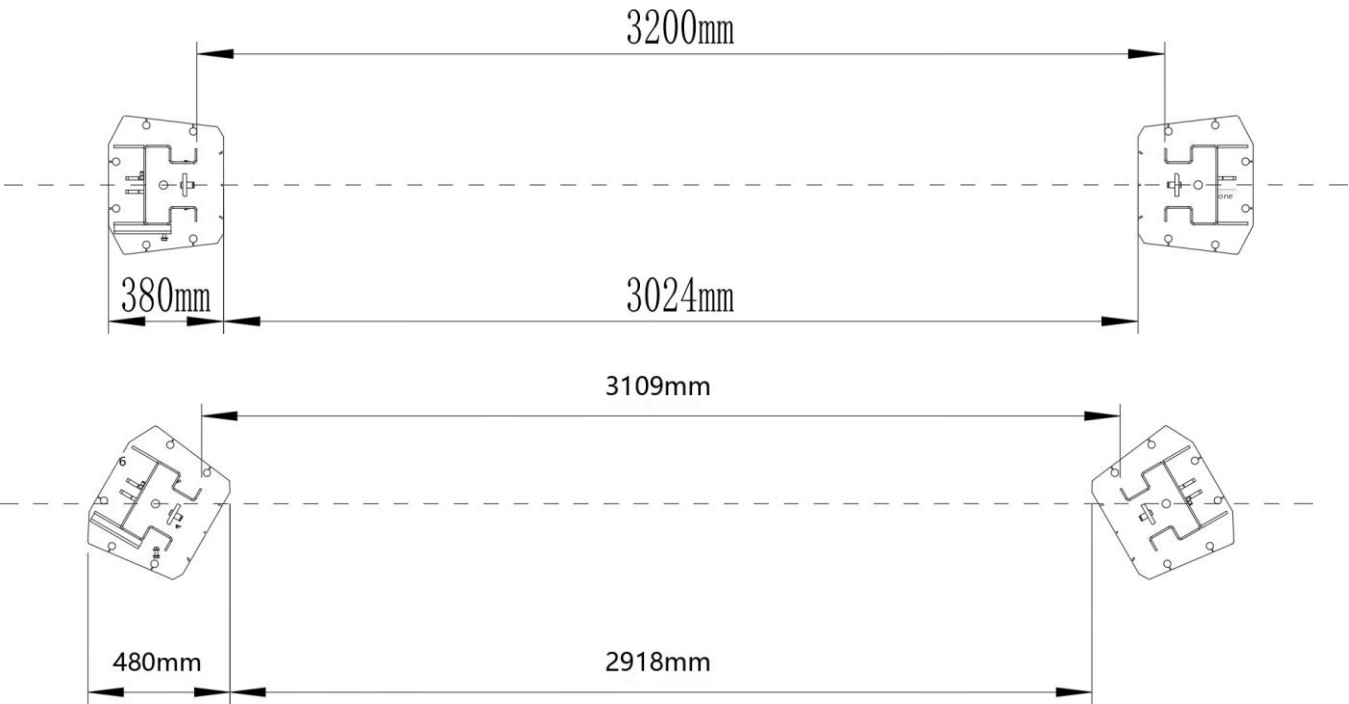


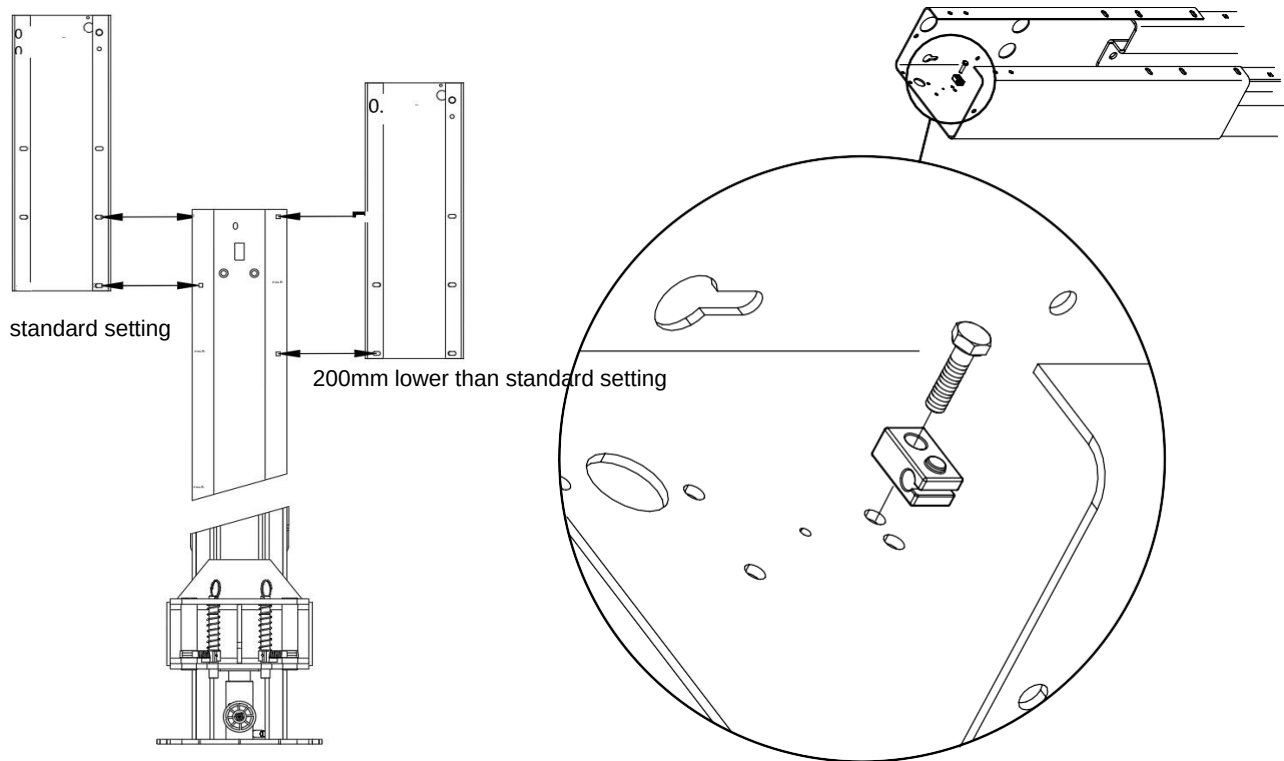
Cylinder lubrication:
The elevator has been lubricated before leaving the factory, but it is recommended to check and ensure that the columns remain lubricated during installation. Apply a thin layer of lubricating grease to the cylinder, and then wipe it evenly with a cloth. Apply lubricating grease only on the surface of the slider in contact with the cylinder. Be careful not to apply too much, just a thin layer is enough, and excess should be wiped off.

Applicable to column
spacing 2900mm



Applicable to column spacing 3200mm

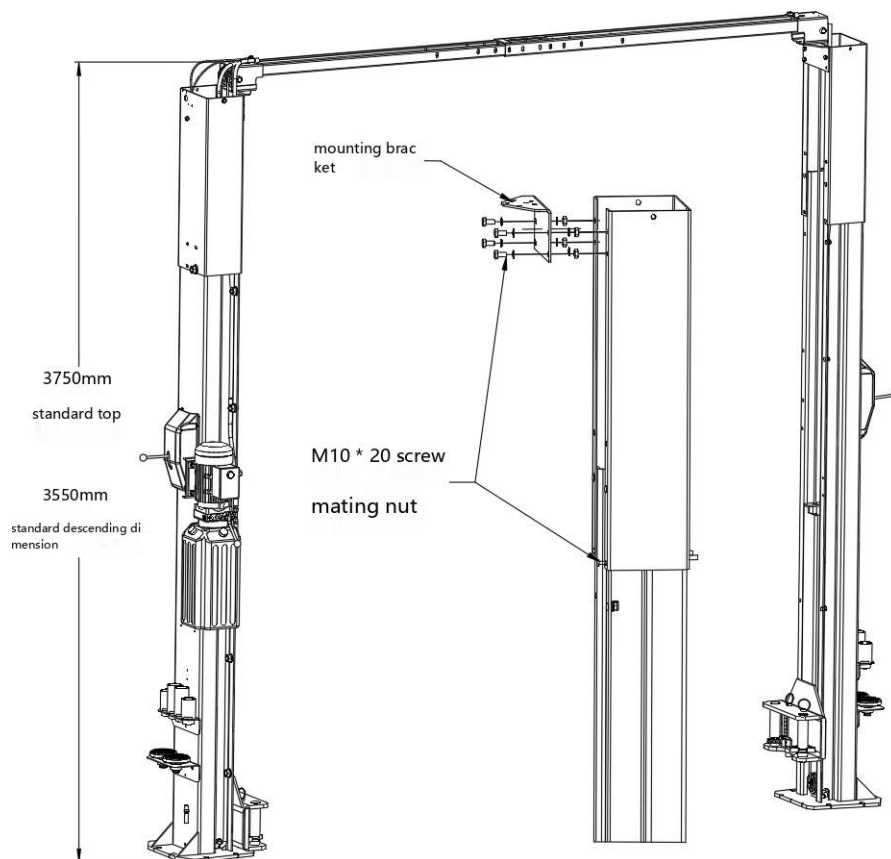




1. Column extension section: Before the column is erected, install the column extension section using a carriage M10*20 and nut.

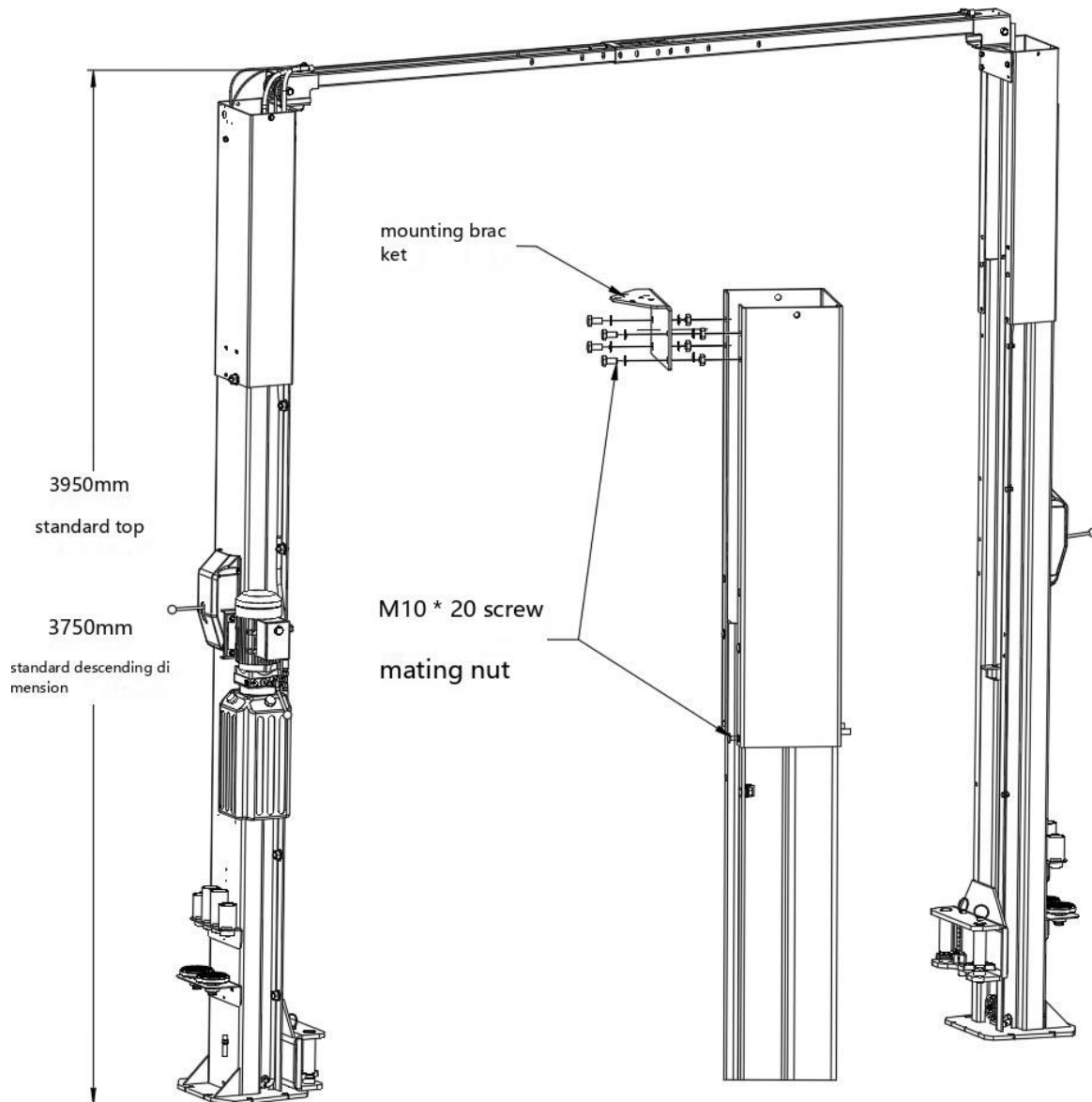
2. Install the gate cable limit block, hexagonal M6*20 and nut

3. Installation bracket: Install the installation bracket onto the extension.



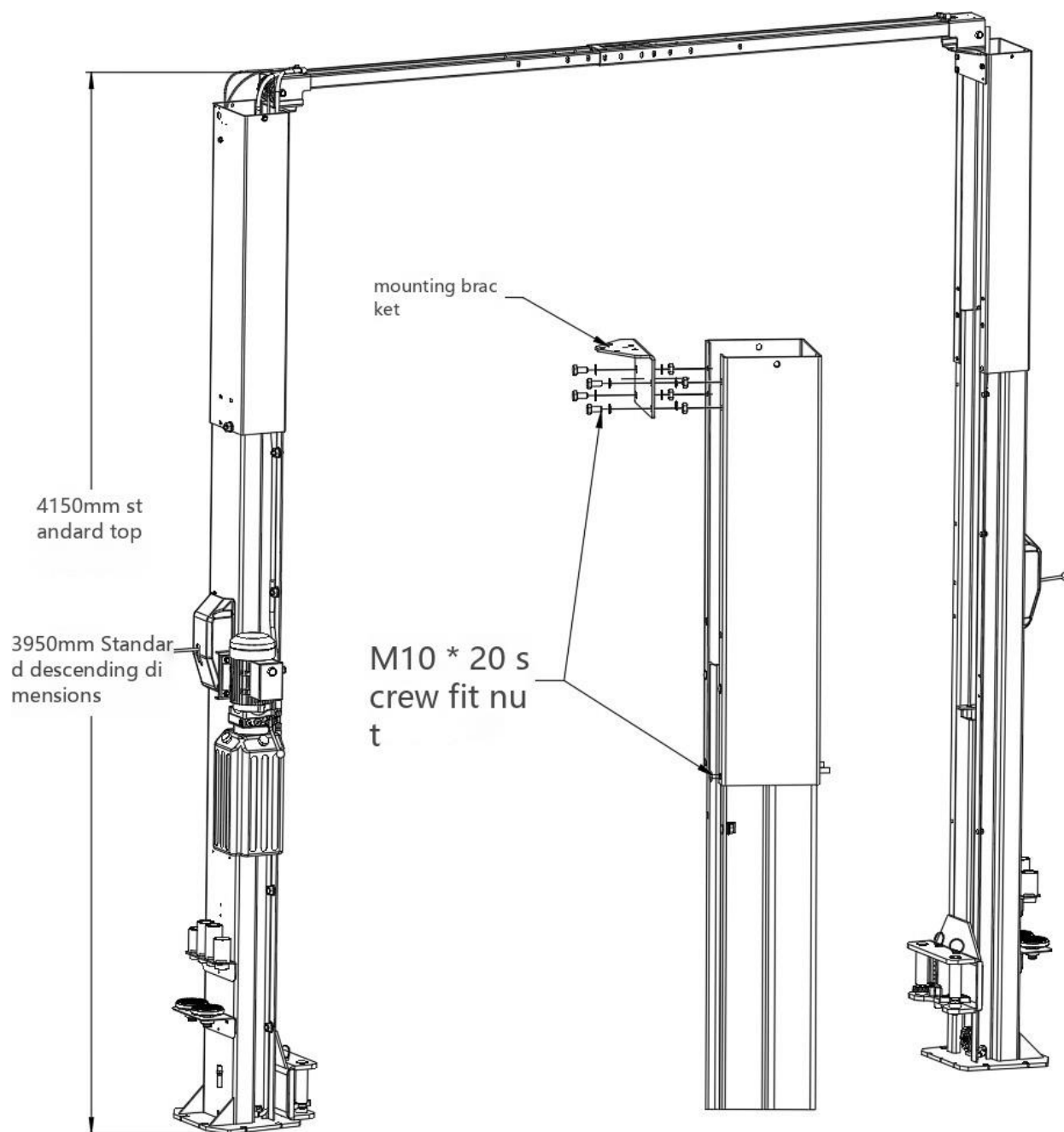
Three heights of lifts are available

Adjusting the height of the product and the distance between the columns cannot simultaneously meet the requirements



Optional extension with 3 different heights

Adjust the height of the 200mm product and the distance between the column spacing cannot be met at the same time

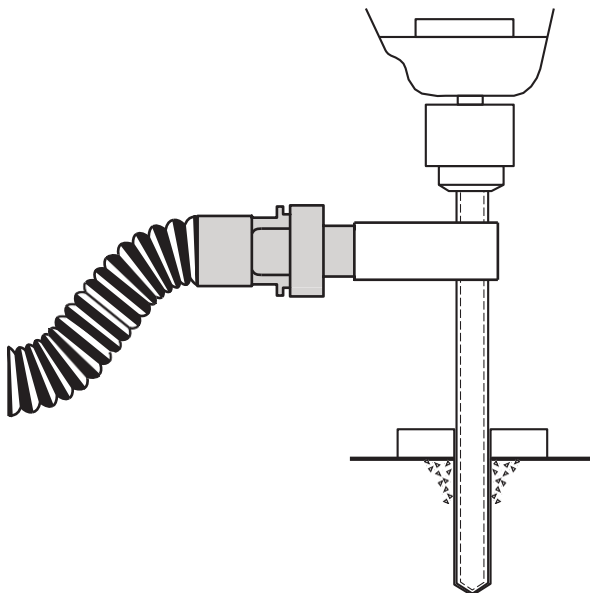


Optional extension with 3 different heights

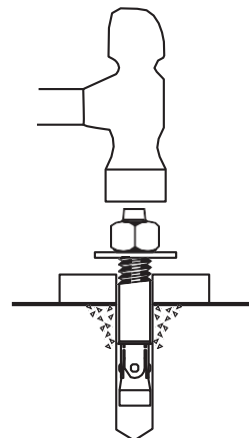
Adjust the height of the 200mm product and the distance between the column spacing cannot be met at the same time

Concrete and anchorage:

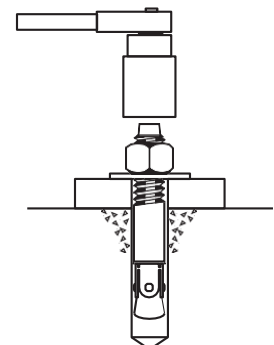
If you are installing an earthquake lift, please consult with a structural engineer and manufacturer representative for concrete and anchoring requirements (which may vary by location). Only applicable to earthquake free elevators.



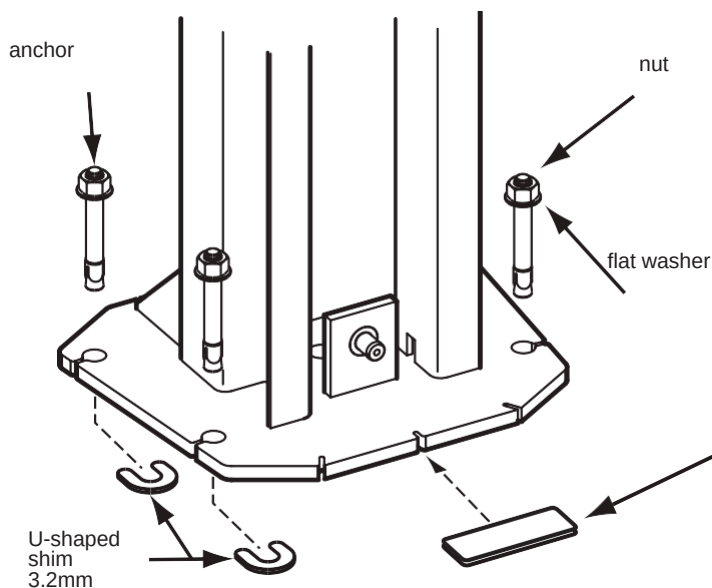
Standard 3/4 "hard alloy head masonry drill bit for drilling.



Insert the nut below the impact part of the bolt. Drive the anchor into the hole until the nut and washer make contact with the base.

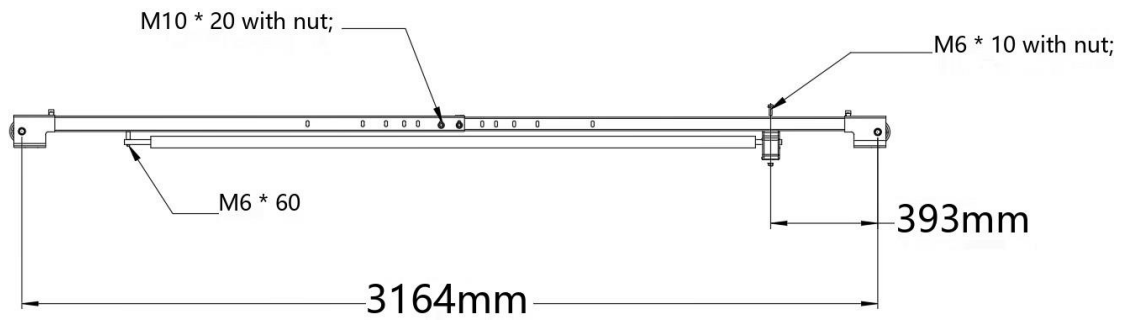


Manually tighten the nut with a torque wrench

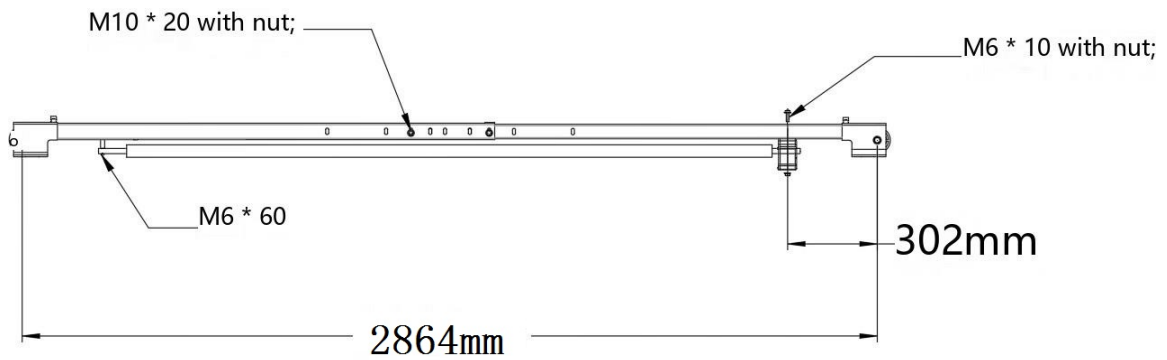


Attention: Use rectangular washers on the inner edge of the base plate. Use building adhesive or silicone cement to fix the gasket. Ensure that the gasket remains tight between the base plate and floor after twisting the anchor.

Top assembly: Adjust the top assembly to the appropriate size. Install (6) M10*20 bolts and nuts and washers, but do not tighten them.



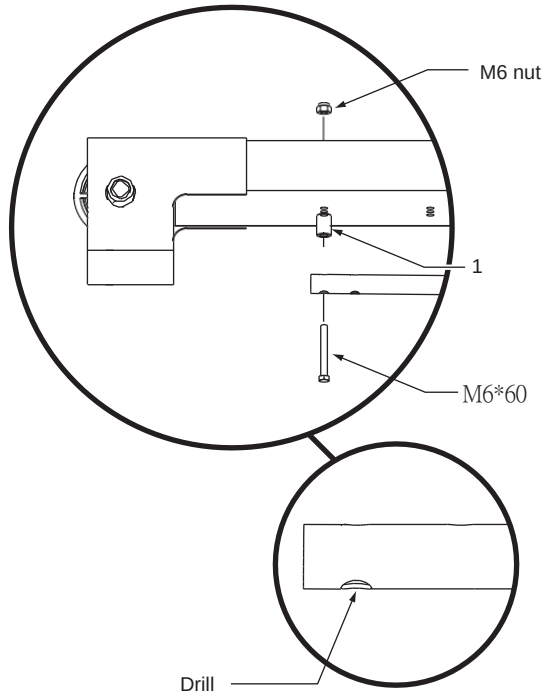
Lift column spacing 3200mm



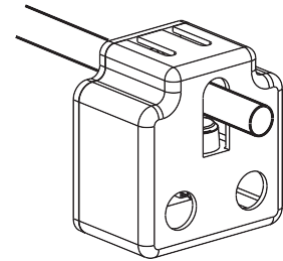
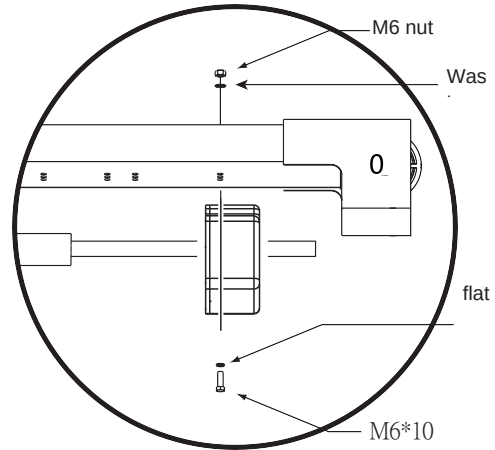
Lift column spacing 2900mm

Top mounted
component hardware
detailed diagram

One side of the
open crossbeam



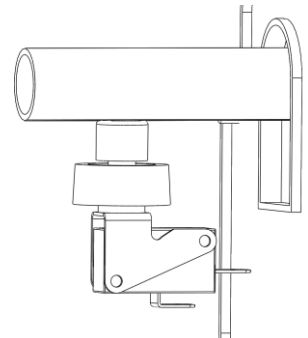
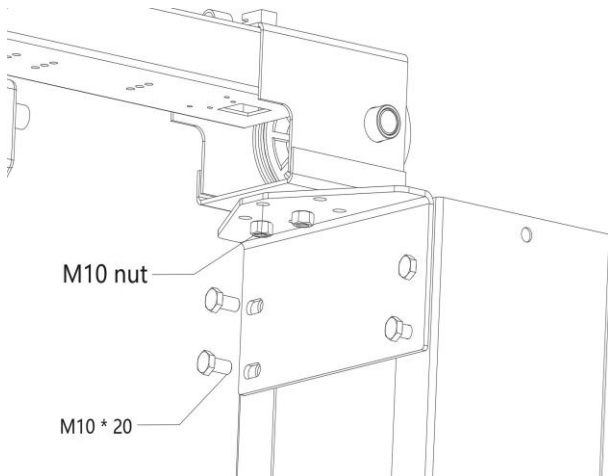
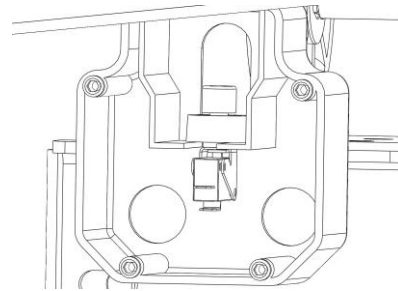
On one side of the switch box

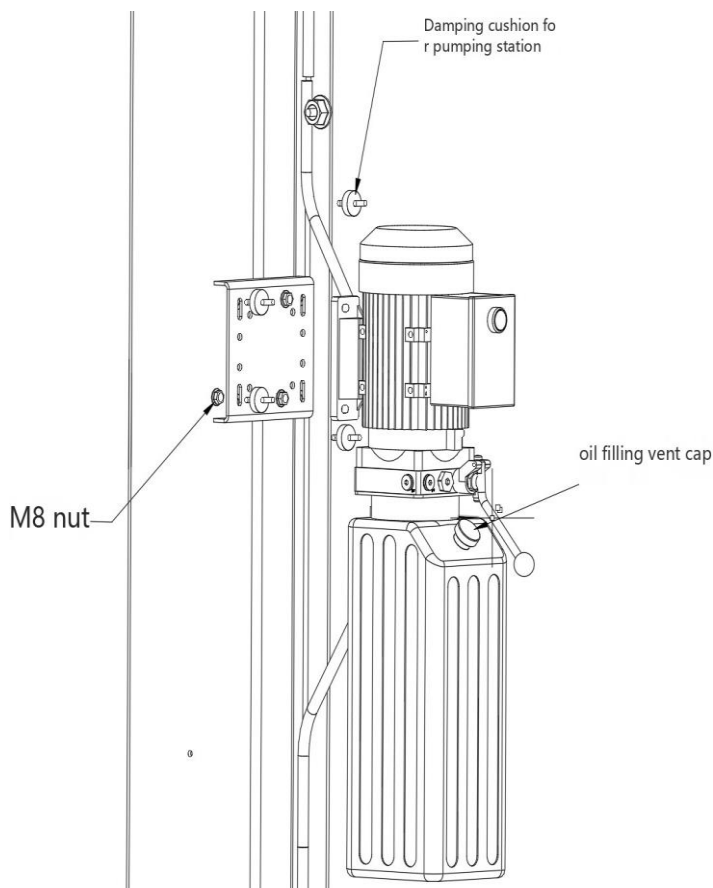


1. Slide the switch box onto the switch rod, ensuring that the drilled hole faces the power unit column, and install the switch box onto the top using M6*20 and nuts and M6 washers.

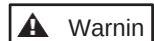
2. For lifts with push-button control boxes: Insert the M6*60 pivot hole into the end of the switch lever. Insert the other end of the lever into the through slot of the switch mounting bracket. Then, secure the switch lever to the top and tighten the hex bolts, leaving a (1.6 mm) gap between the spacer and the overhead assembly.

3. Overhead Mount: Install the overhead assembly onto the mounting bracket with the M6 lock nut and tighten the bolt in the center of the overhead assembly.





1. Power Unit: Insert the M8 screw through hole into the power unit bracket and secure it in place with the M8 nut. Install the motor onto the column bracket and install the lock nut. Install and manually tighten the branch tee to the pump until the damping pad is secured.



Warning

Overtightening the shock absorber pad may tear the washer.

Filling and Bleeding: Use hydraulic oil conforming to specifications. Remove the filler vent cap and pour in approximately 8L of fluid. Start the unit and raise the lift approximately 2 feet.

(62 centimeters). Open the air release valve of the cylinder about 2 turns.

When the fluid is flowing, close the bleed valve. The bleed valve torque value is a minimum of 15 ft-lbs (20 Nm) and a maximum of 20 ft-lbs (27 Nm). Completely reduce lift. Add more fluid until it reaches the MIN mark on the tank.

Marking. Replace the vent cap.



Warning

If the filling vent cap is lost or damaged,

please order replacement, and the reservoir must be ventilated.

2. Hose: Clean the adapter and hose. Check all threads for damage and hose ends for curling,

Tightening procedure for expanding pipe fittings

1. Tighten the accessories with your fingers. Then, use a wrench of appropriate size to rotate the accessory.

Important

The tee must not rotate while tightening.

Only the nut can be turned.

2. Turn the fitting one full turn.

3. Tighten the fitting again by hand; then use a wrench to rotate the fitting. This will complete the tightening process and form a pressure seal.

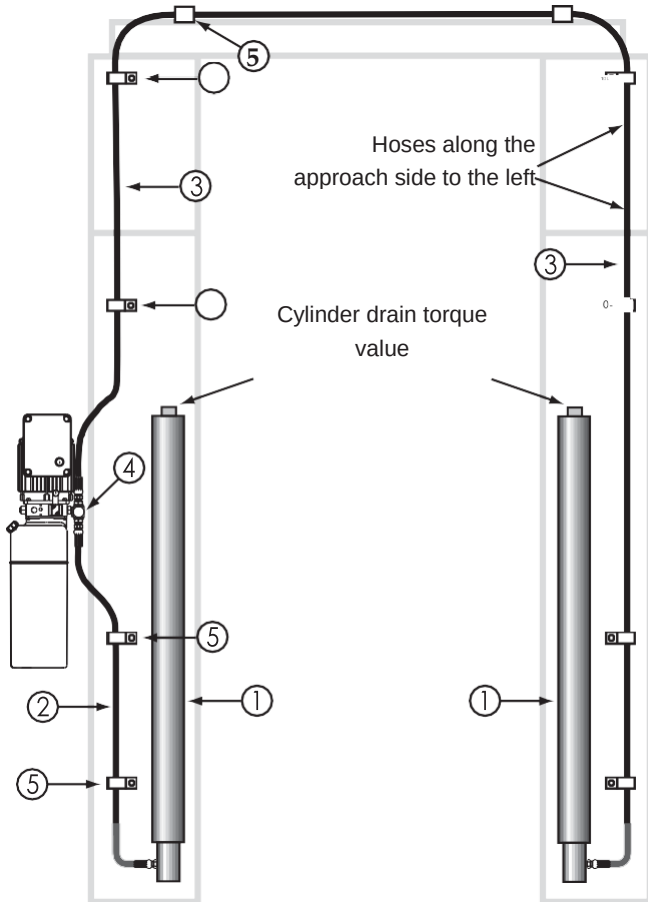


Warning

Overtightening will damage the fitting and cause fluid leakage.

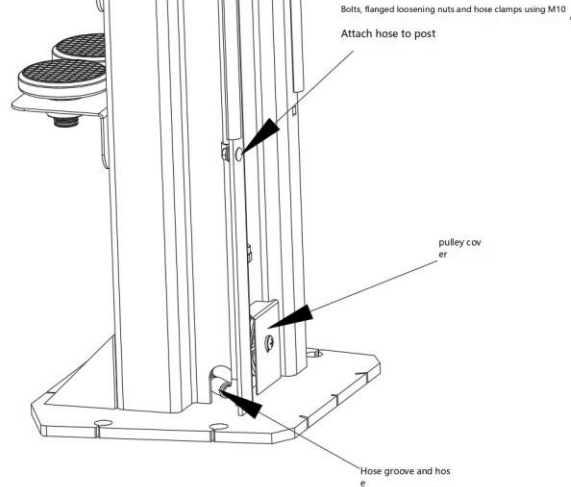
Adapter and hose installation

1. Install the hose (2) on the power unit column side with the hose clamp, first connecting it to the cylinder (1).
2. Install the hose clamp on the part (3), starting from the opposite column (1) and towards the power unit column. All excess hose should be inside the bends and top assembly. When connecting the hose clamp, do not try to use the optional column extension mounting holes. They will not work. Use the lower set of holes.
3. Install the tee (4) into the power unit
4. Connect parts (2) and (3) to tee (4)



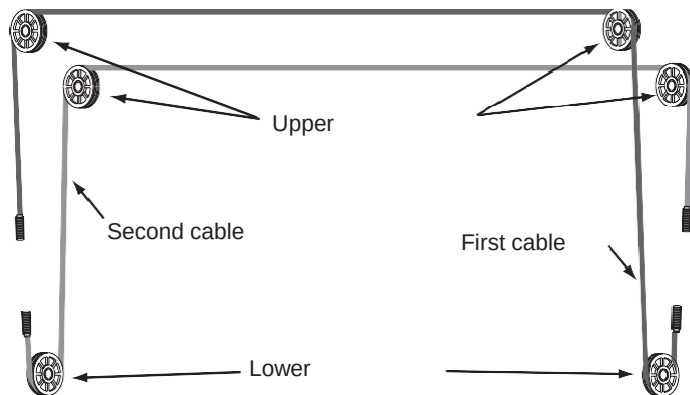
Serial number	Quantity	Description
1	2	Hydraulic cylinder
2	1	Power Unit Hose
3	1	Top hose
4	1	T-joint
5		Hose Clamp

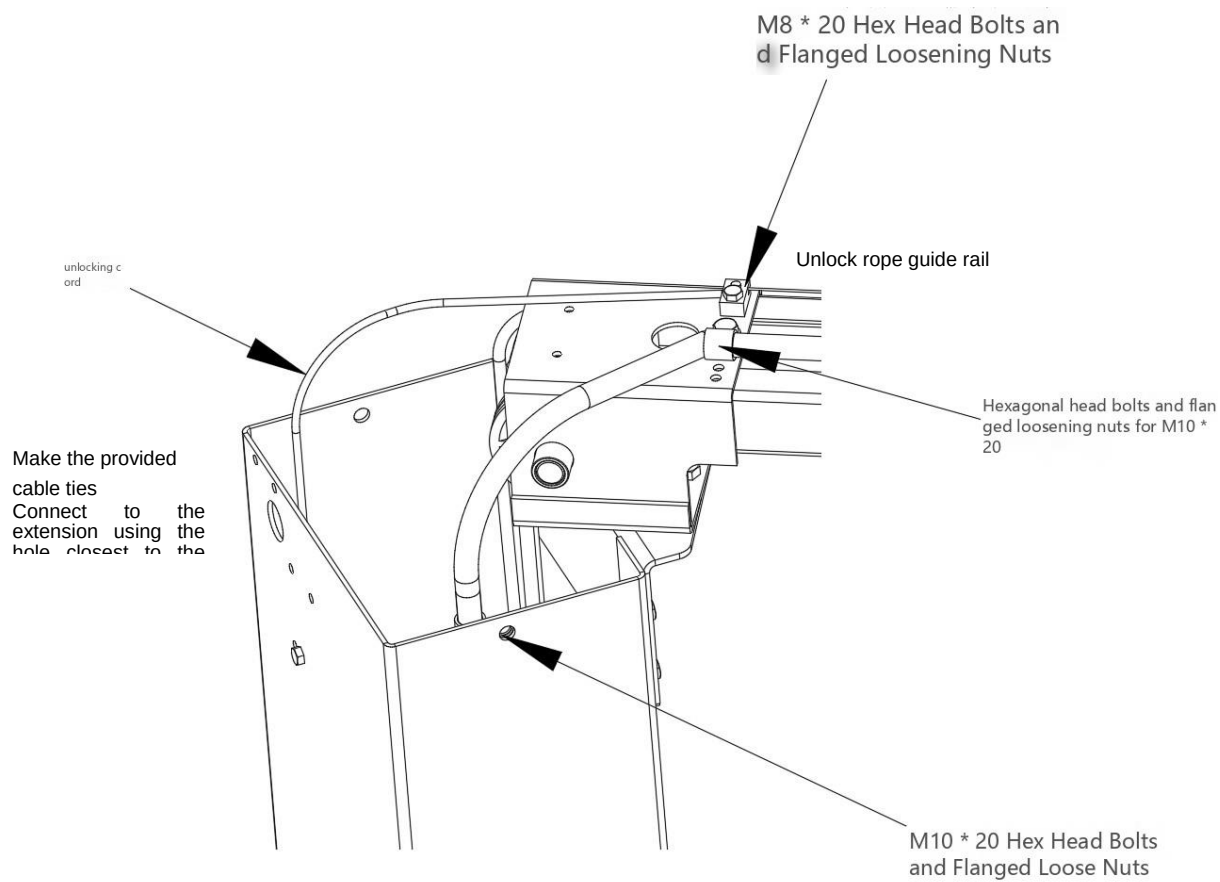
Attention: Use the slot provided at the bottom of the column to insert the power unit hose into the column. Arrange the top mounted hose in the column groove outside the column, with the overhead hose above passing through the top of the



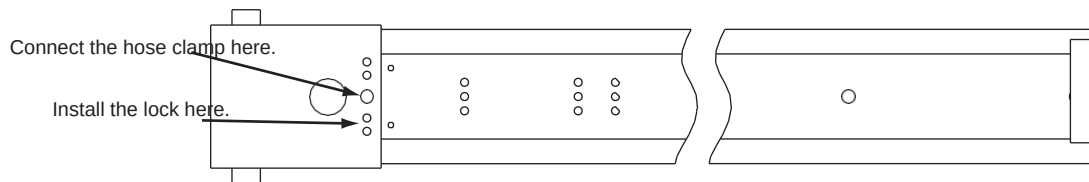
Cable

- A) Overall cable arrangement. First, run the cable end upward through the small hole in the lower binding plate.
- B) Push the cable upward until the stud protrudes from the top opening of the bracket.
- C) Insert the lock nut into the cable stud, allowing 1/2" (13mm) of the stud to protrude from the lock nut. Tighten the nut to apply slight tension to the cable.
- D) Run the cable around the pulley, then around the overhead pulley upward and downward, through and down to the opposite bracket, and install the pulley cover.
- E) Repeat the above steps for the second cable, adjusting the tension of both cables.



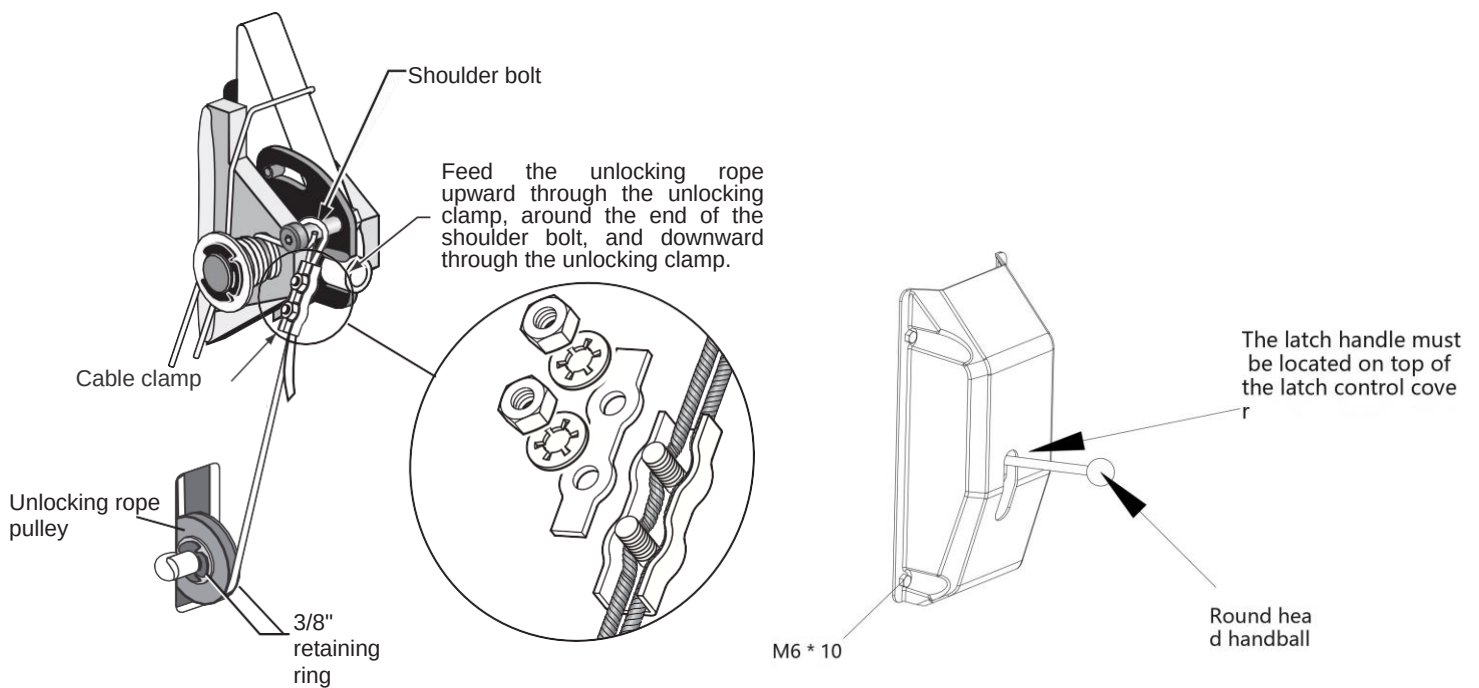
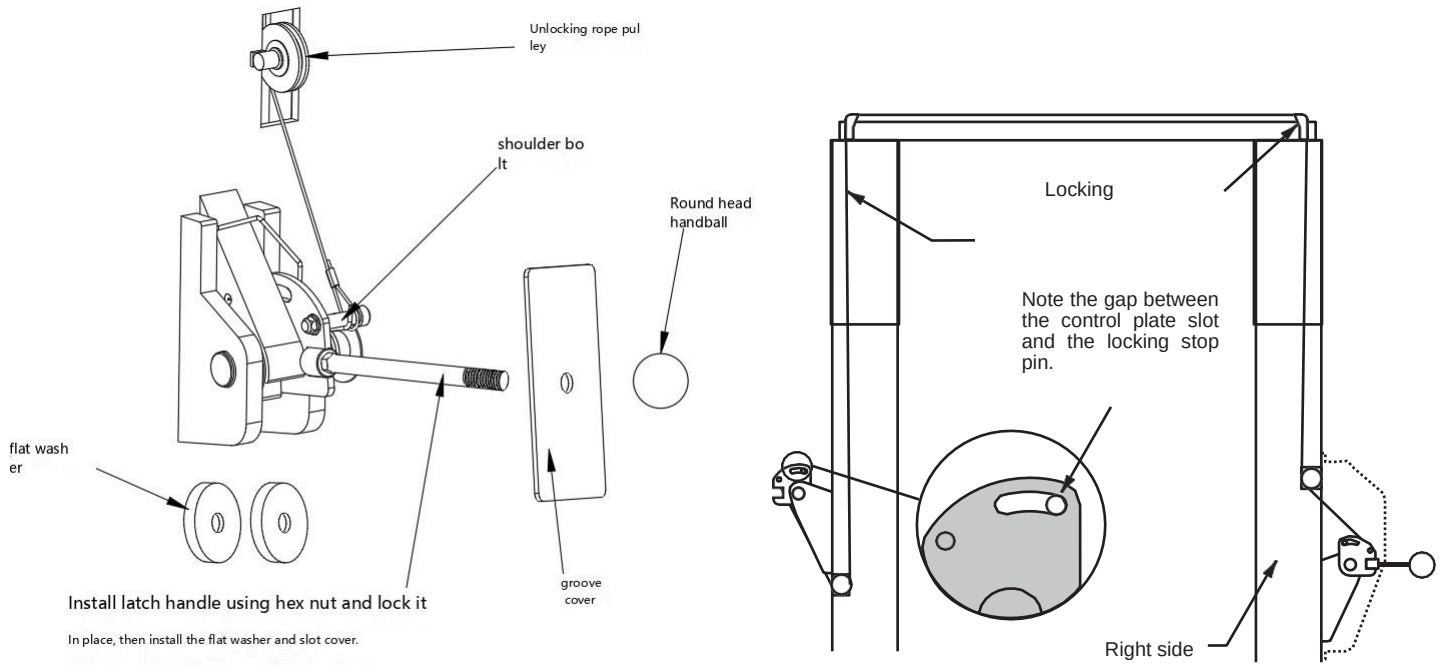


1. Attach the latch release rope guide bracket to the top. Be sure to use the hole on the side closest to the lift. The screw should be in the hole closest to the center of the overhead bracket.
2. Run the cable upward along the inside of the column and through the release rope lock.

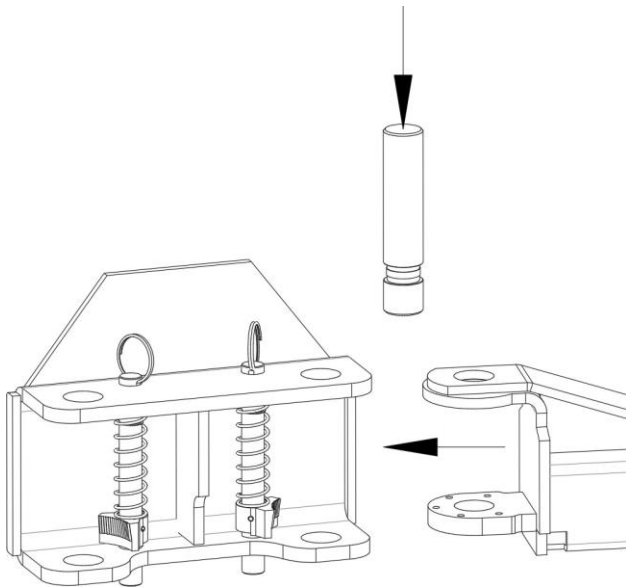


1. Lock and unlock rope

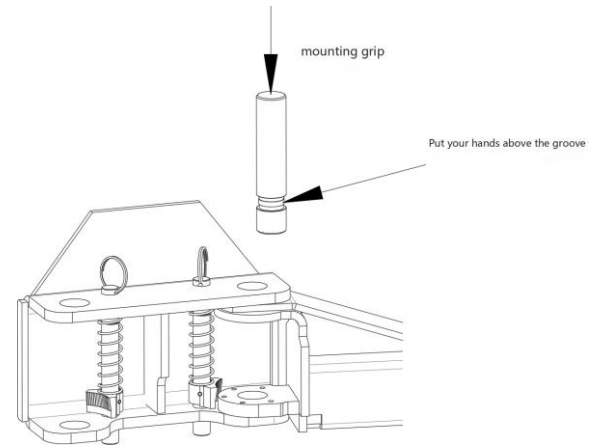
- Install locking cable pulleys and fixing rings in the upper slot of the power unit column
- Insert the ring end of the unlocking rope onto the shoulder screw end on the right locking control board.
- Thread the other end of the unlocking rope through the groove of the latch unlocking rope pulley, ensuring that the unlocking rope runs below the bottom of the latch unlocking rope pulley and inside the right column.



1. Arm and Restraint: Before installing the arm, raise the car body to a convenient height. Lubricate the rotating arm pin and holes with lithium grease. Slide the arm into the yoke and install the 44.2mm diameter arm pin.



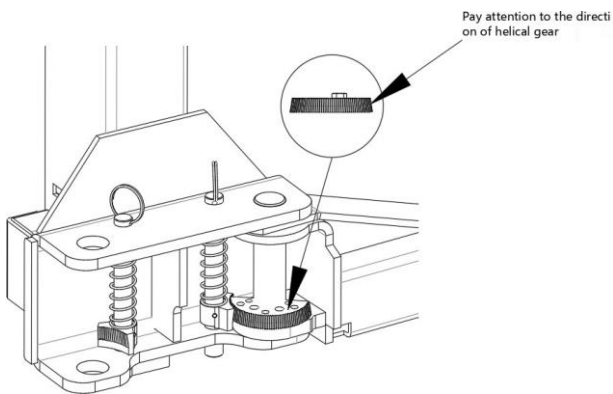
Warning



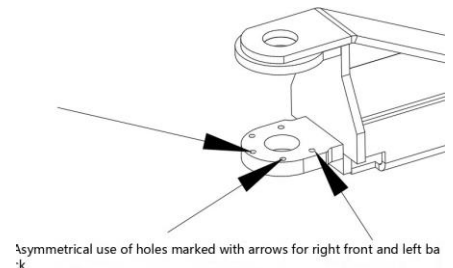
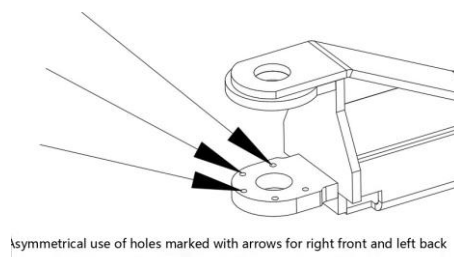
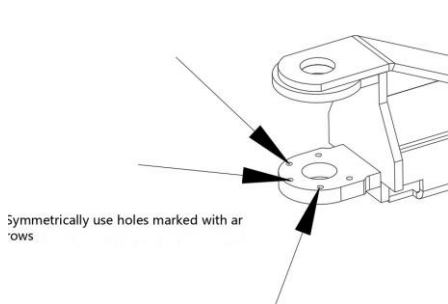
Note: To check the operation of the arm restraint device, lift the bracket 1 inch (25 mm) from the fully downward position. Pull up the pin ring and adjust the support arm to the desired position. To engage the restraint device, lower the pin ring to allow the gear teeth to mesh together. You may need to rotate the arm slightly to engage the gear teeth.

2. After installing the arm and pins, install the arm restraint gear as follows: Install the restraint gear on the arm wedge, ensuring the helical gear is oriented.

Note: You may need to pull up the pin ring to allow enough space to install the restraint device.



Note: Once the boom is mounted on the yoke, pull up the actuator pin and fully swing the boom, ensuring the restraint gear and gear block remain aligned. If they do not remain aligned, remove the restraint and install it in the opposite position.



1. Door bumper installation

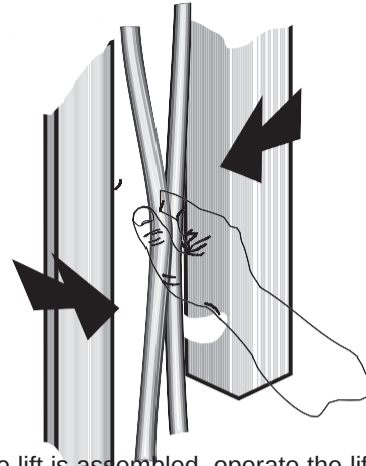
- A) Press the long bumper against the edge of the pillar
- B) Press the short bumper against the top edge of the carriage tube

2. Lock unlocking rope adjustment:

- A) Check that the latch engages and disengages correctly. Slowly release the latch handle. A 3mm gap is allowed between the top of the 1/8" latch and the post.
- B) When raising, listen for the click of the latches to ensure both latches are engaged in the latch slots. If not, loosen the clamps and adjust the tension as needed.
- C) Install the left latch cover using an M6*10.

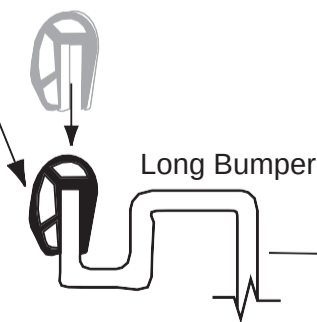
3. Pressure Test: Raise the lift to maximum lift and keep the motor running for 5 seconds. Stop and check all hose connections. Tighten or reseal if necessary. Repeat the cylinder bleed test.

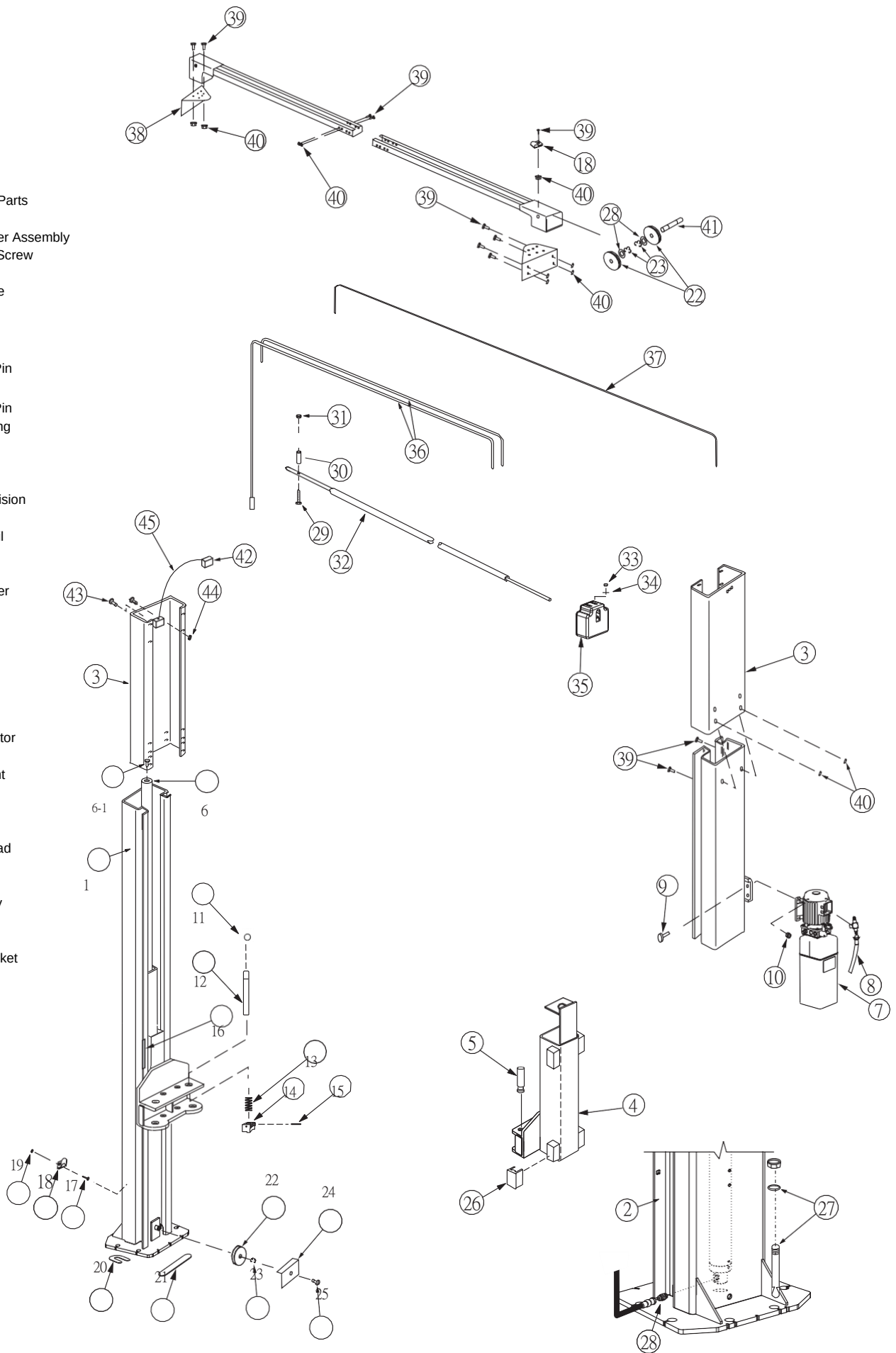
4. Wire Rope Balance Adjustment: Raise the lift to check the wire rope tension. Under the car, clamp adjacent cables with your thumb and forefinger, applying approximately 15 pounds of force. You should pull the cables together. Adjust at the upper joint.



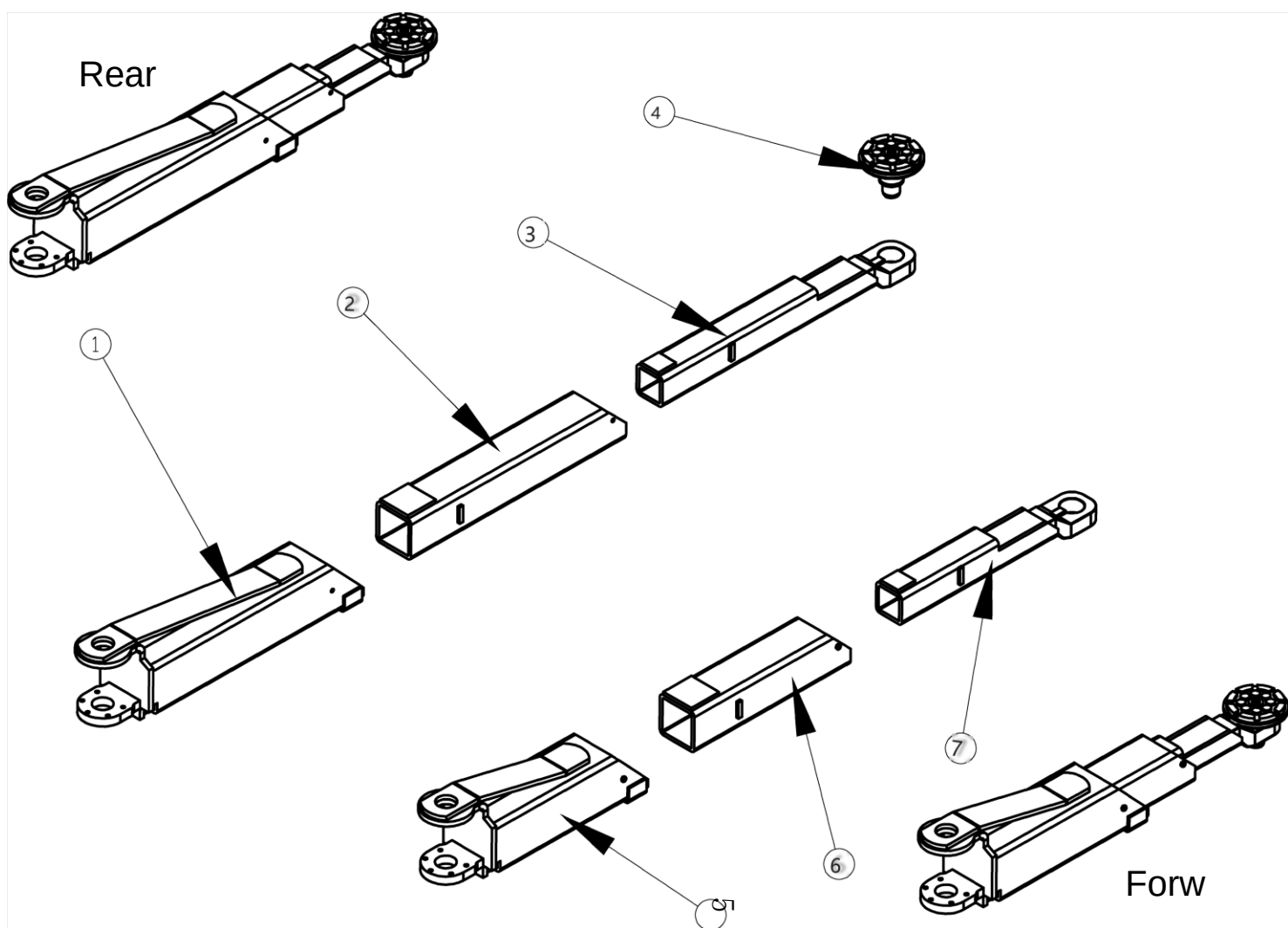
5. After the lift is assembled, operate the lift to ensure it is functioning properly. Observe the operation of all locks in all locked positions, ensure even lifting on each side, no leaks in the hydraulic system, all electrical control functions as indicated on the label, all pneumatic functions normal and leak-free, ramps rotating freely (if applicable), and maintaining proper clearance from all items in the cabin.

Locked at the Edge of the Column



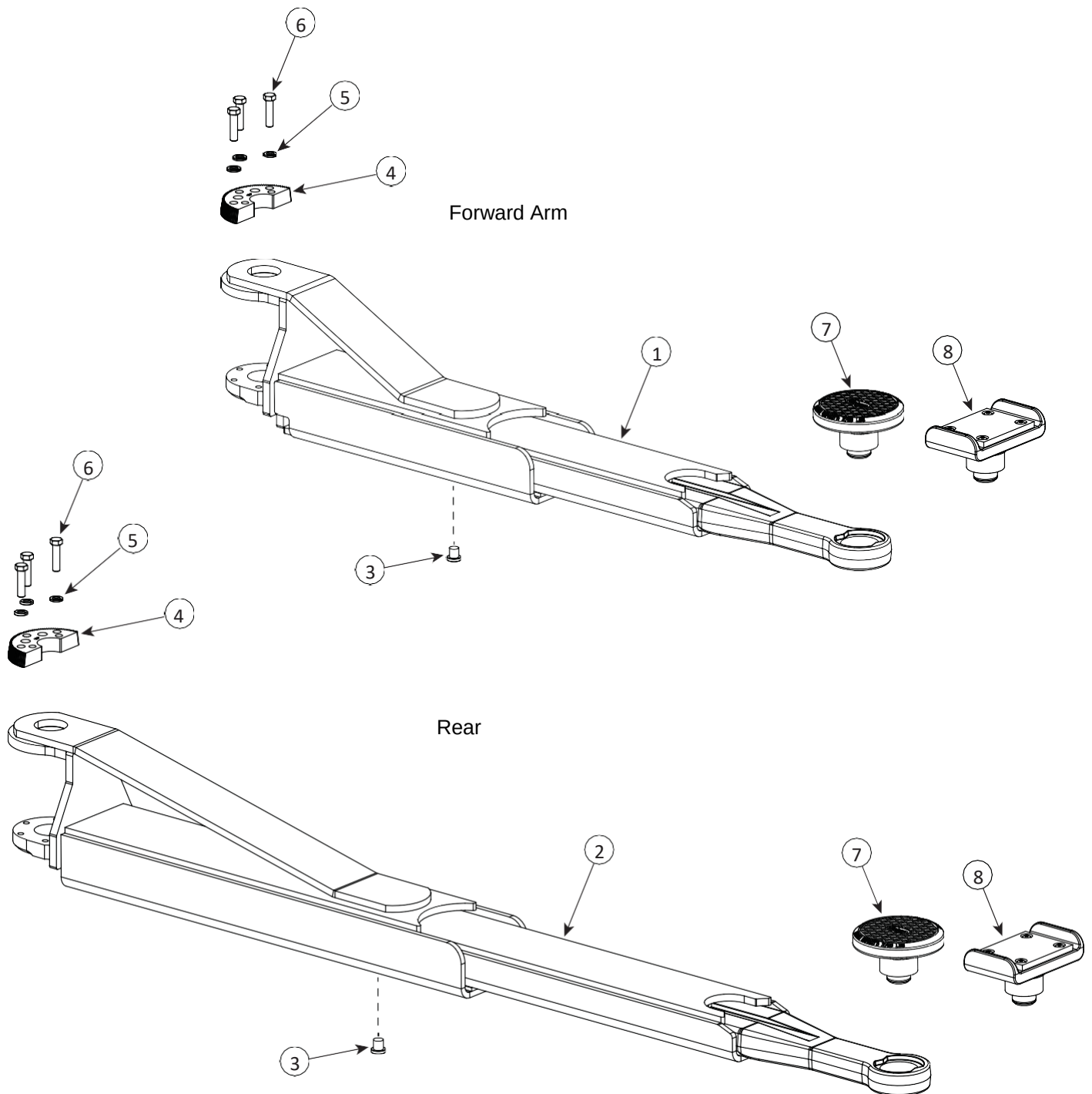


Standard outrigger details



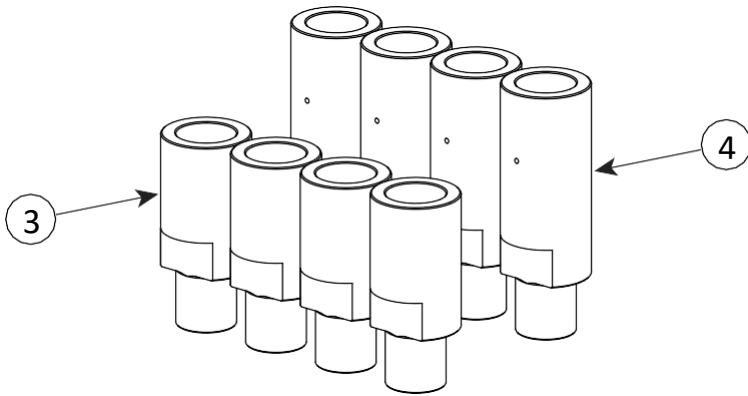
1	Long arm and big arm welding
2	Long arm and middle arm welding
3	Long arm and small arm welding
4	pallet
5	Short arm and big arm welding
6	Short arm middle arm welding
7	Short arm and small arm welding

Optional outrigger details

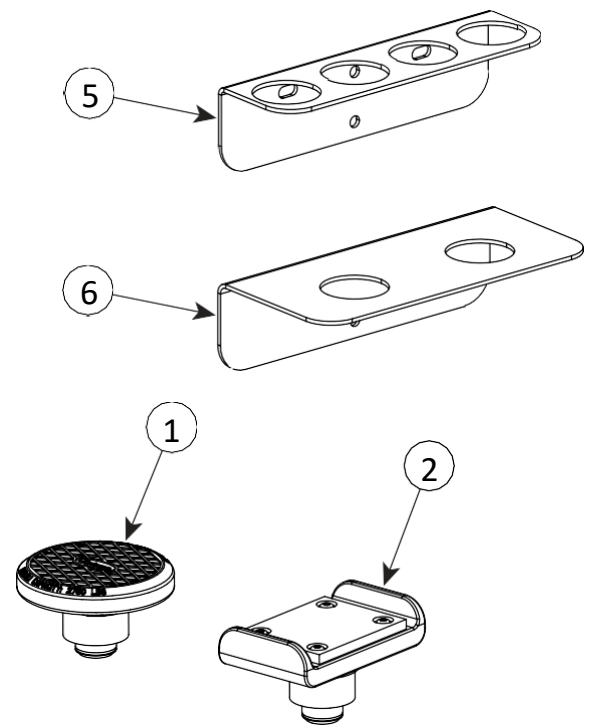


1	Forward Arm	
2	Rear Arm	
3	limit bolt	
4	Arm semi-circular lock teeth	
5	3/8 "gasket	
6	3/8"-16NC x 1-1/2"	
7	Circular tray assembly rubber	
8	Square tray assembly, suitable for trucks	

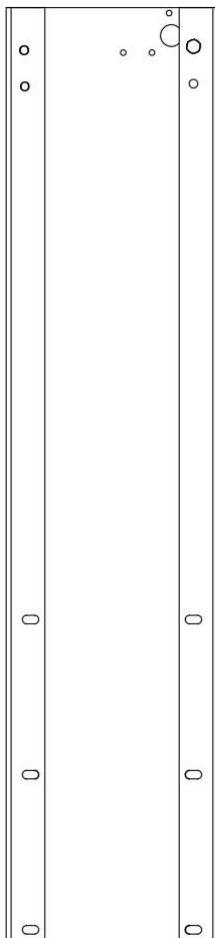
Increaser sleeve/options



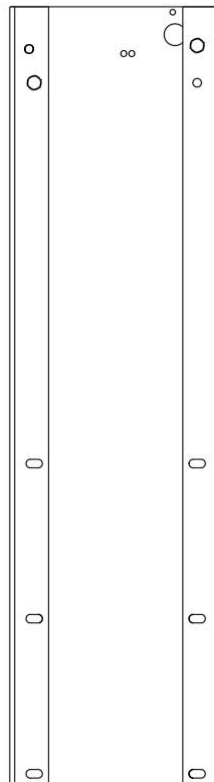
Serial number	Description
1	Round tray
2	Square tray
3	88.5mm tray height increasing sleeve
4	127mm height increasing sleeve
5	4-hole increaser sleeve
6	2-hole height increasing bracket



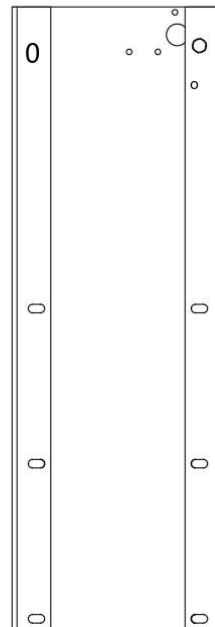
Increased EL2

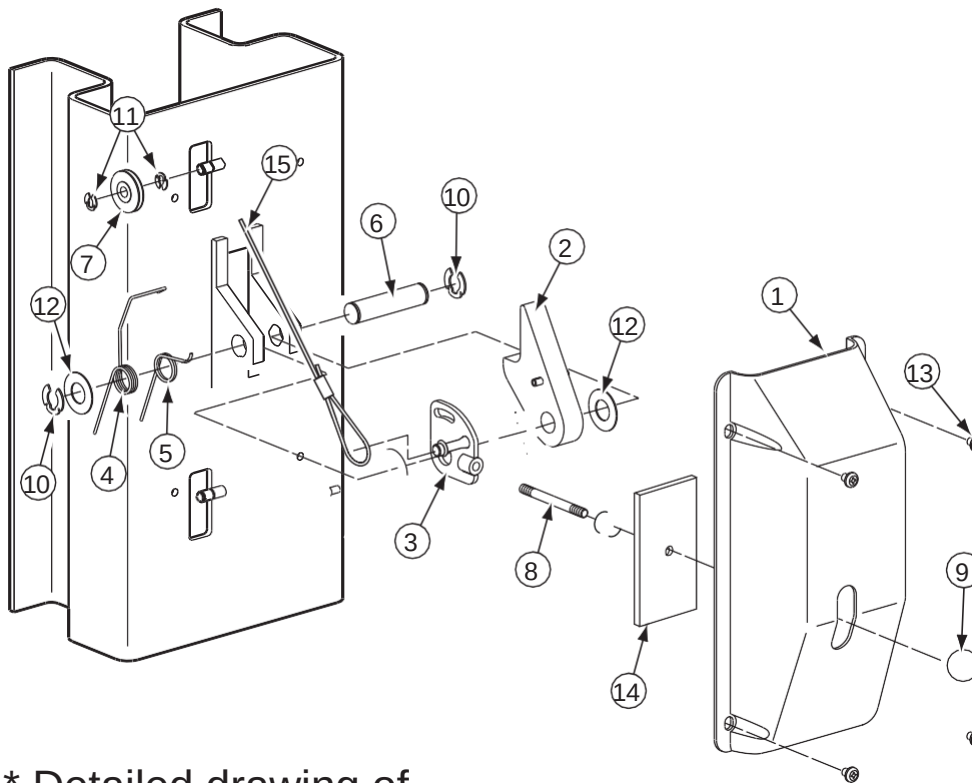


Increased



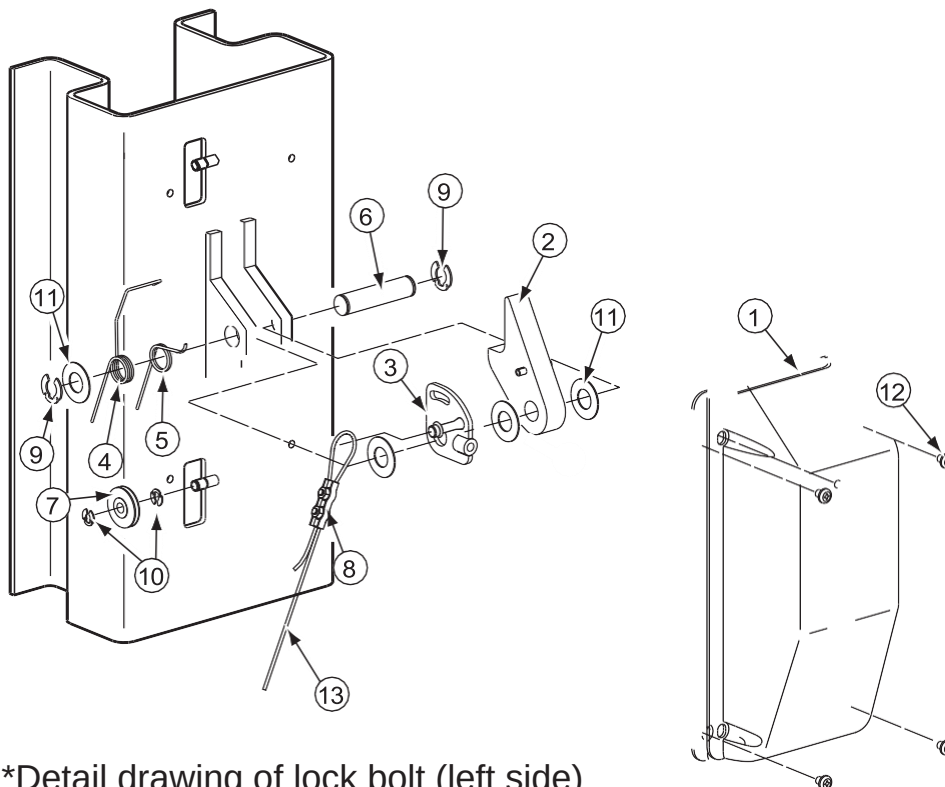
standard





1. Unlock the cover
2. Longmen Lock Tongue
3. Unlock board
4. Lock tongue torsion spring
5. torsion spring
6. Lock tongue shaft
7. Unlock the pulley
8. Unlock the lever
9. handball
10. Snap Ring
11. Snap Ring
12. Lock pad
13. M6*10 screw
14. Unlock the cover skateboard
15. Unlocking Rope

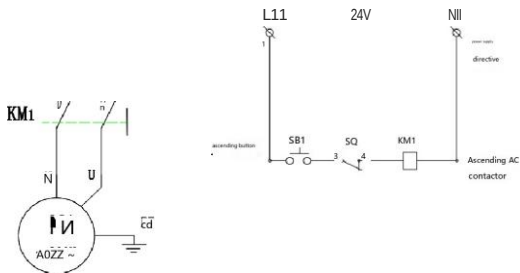
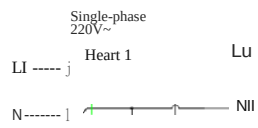
* Detailed drawing of



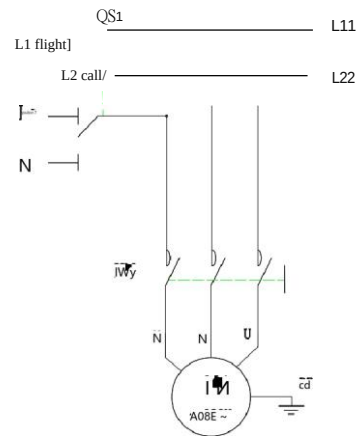
1. Unlock the cover
2. Longmen Lock Tongue
3. Unlock board
4. Lock tongue torsion spring
5. torsion spring
6. Lock tongue shaft
7. Unlock the pulley
8. Locking cable clamp
9. Snap Ring
10. Snap Ring
11. Lock pad
12. M6*10 screw
13. Unlocking Rope

*Detail drawing of lock bolt (left side)

220V 50Hz IPh 2.2KW

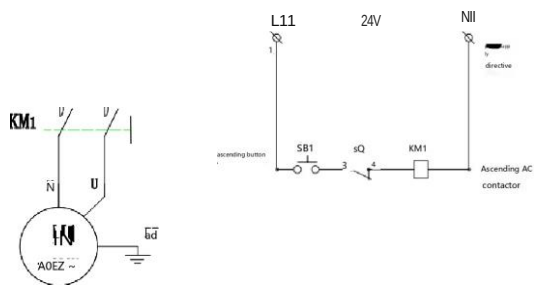
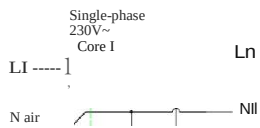


Three-phase 380V 50Hz 3Ph 2.2KW

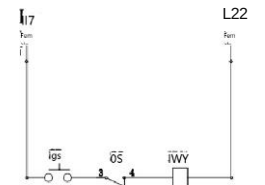
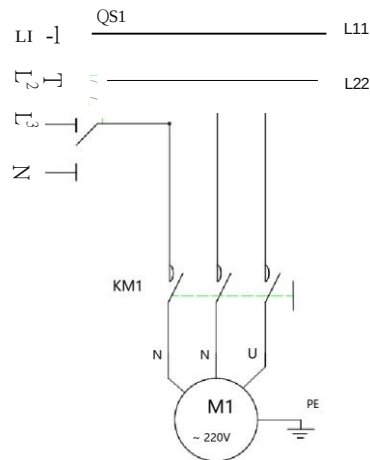


1122

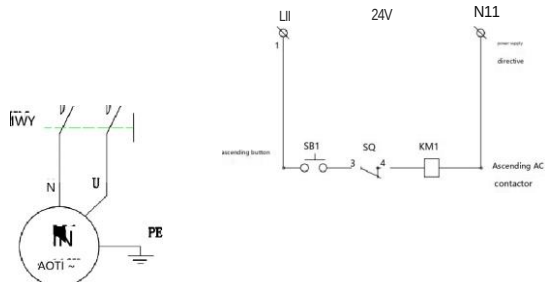
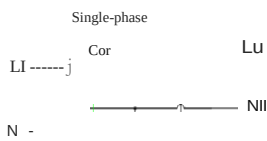
208-230V 60Hz IPh 2.2KW



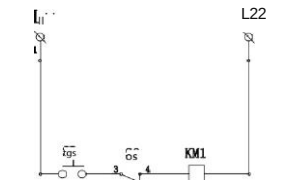
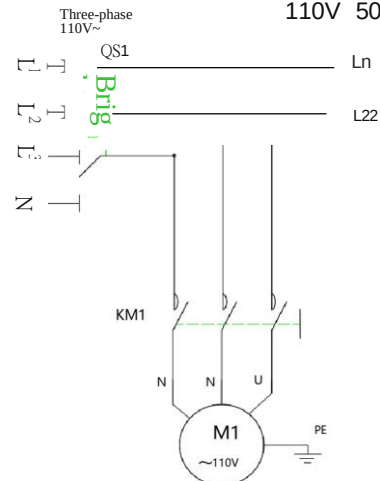
Three-phase 220V 60Hz 3Ph 2.2KW



110V 50Hz IPh 2.2KW



110V 50Hz 3Ph 2.2KW



- Check your lift every day. If it malfunctions or has damaged or broken components, do not operate it. Use qualified elevator maintenance personnel and genuine rotating parts for repairs.
- According to the manufacturer's guidelines and the "correct lifting" instructions provided with the lift. Provide comprehensive training to all employees on the use and maintenance of the lift, including "installation" and "safety tips".
- Do not allow unauthorized or untrained personnel to locate vehicles or operate lifts.
- During the use of the lift, unauthorized personnel are prohibited from entering the area

- When the vehicle is raised or lowered, no one is allowed on the lift or inside the vehicle.
- Always keep the area around the elevator free of tools, debris, grease, and oil.
- Do not overload for lifting. The capacity of the elevator is displayed on the nameplate attached to the elevator.
- Do not stand in front of the vehicle when it is placed in the elevator compartment.

! CAUTION



Use extension adapters in low clearance areas to ensure safety

! CAUTION



Caution: Maintain load balance to prevent tip-over

! CAUTION



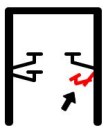
Proper maintenance and inspection is necessary for safe operation

! CAUTION



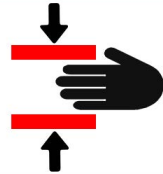
Periodic maintenance is advised.

! CAUTION



Do not use a lift that is damaged

! CAUTION



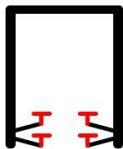
Caution: Crush Hazard

! CAUTION



Use safety stands

! CAUTION



Utilize the lifting points recommended by the vehicle manufacturer

- Do not collide or cross over the lifting arm or adapter. This may damage the elevator or vehicle. Before driving the vehicle into the elevator compartment, please position the support arm and adapter to ensure unobstructed access to the elevator.
- Be careful when installing an elevator on the vehicle. Place the elevator adapter on the vehicle for contact. Lift the elevator until the adapter contacts the vehicle. Check the safe contact between the adapter and the vehicle. Raise the elevator to the desired working height.



Warning

If the door bolt is not engaged, do not enter under the vehicle.

- Do not block the opening or override of the self closing lifting control device, which is designed to return to the "closed" or neutral position when released
- Do not remove or disable the support restraint device
- When raising or lowering the vehicle, please stay away from the lift.
- When disassembling or installing heavy components, be sure to use a safety bracket
- During the lifting process, avoid excessive shaking of the vehicle.
- If there is a risk of the vehicle falling, please clear the area.
- Before getting off the elevator, the tool tray, bracket, etc. should be disassembled first.
- Before attempting to lower the elevator, release the latch first.
- Before moving the vehicle out of the lifting area, adjust the position of the lifting arm and adapter to ensure that the exit passage is unobstructed.

Installer: Please put this booklet back in the data package,
and give it to the lift owner/operator.

Thank
you

Train skilled operators and perform regular maintenance to ensure your lift performs satisfactorily.