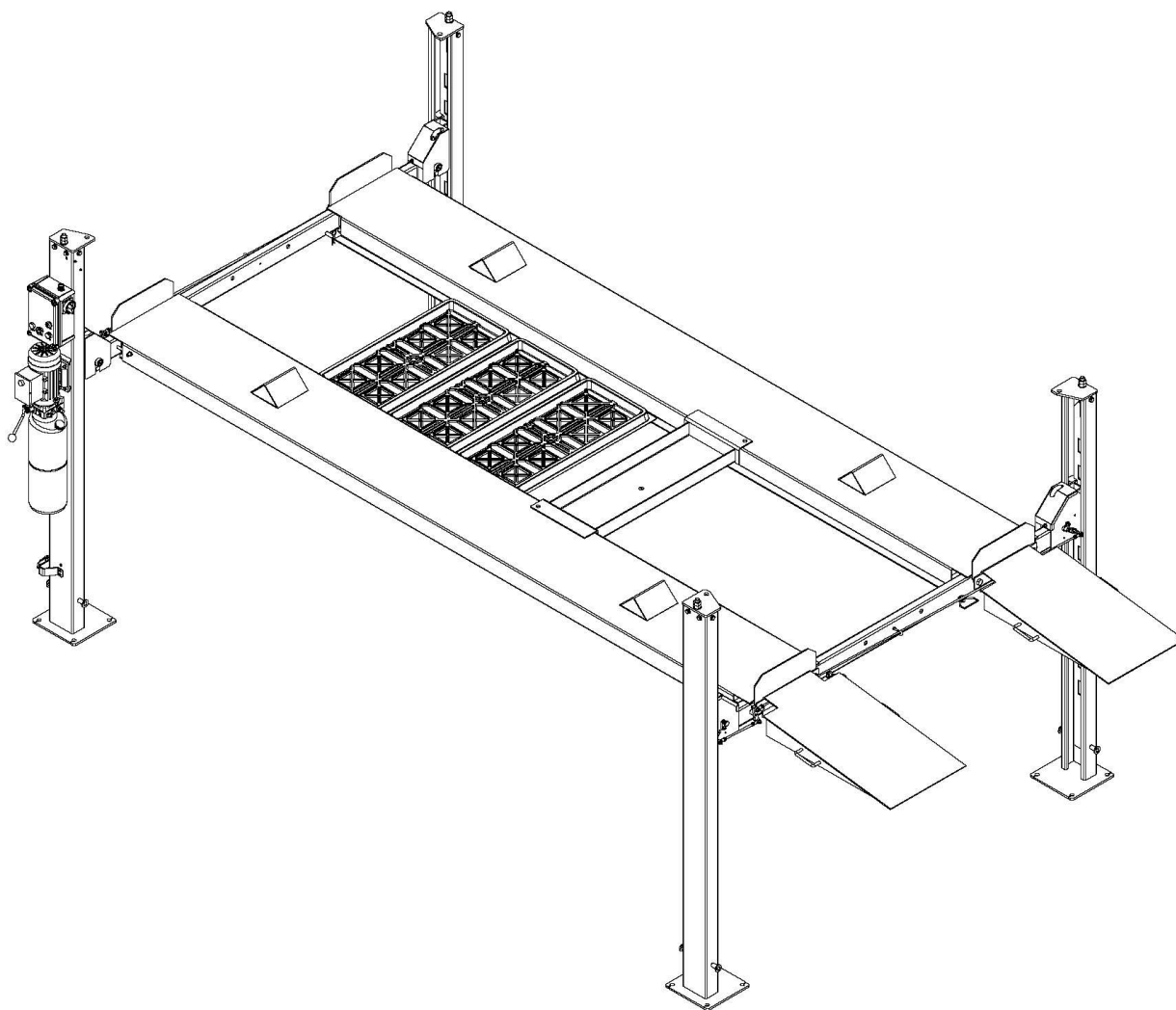


HAMMER TOOLS - PL 4000 XL

- Four-post parking lift
- Manual safety-lock release
- Rated lifting capacity: 4,000 kg

INSTALLATION, OPERATION AND MAINTENANCE MANUAL



This manual is part of the product. Keep it readily accessible for future reference.

Read this manual carefully before installing, operating or maintaining the lift.

The manufacturer and distributor accept no liability for accidents caused by unauthorised modifications or improper operation.

CONTENTS

1.SAFETY INSTRUCTIONS.....

1.1 Statement

1.2 Qualified operator and instructions for use

1.3 Notes

1.4 Warning Signs

1.5 Noise standard

2.INTRODUCTION.....

2.1 Product description

2.2 Technical specifications

2.3 Main components

3.INSTALLATION.....

3.1 Before installation

3.1.1 Required tools and equipment

3.1.2 Floor requirements

3.1.3 Check accessories

3.2 Precautions during installation

3.3 Installation steps

3.4 Checks after installation

4.OPERATION.....

4.1 Operating instructions

4.2 Control panel / 4.3 Operating sequence

4.4 Operating procedure

5. TROUBLESHOOTING

6.MAINTENANCE.....

7. APPENDICES

Appendix 1: Packing list

Appendix 2: Overall dimensions

Appendix 3: Foundation layout

Appendix 4: Hydraulic circuit

Appendix 5: Electrical diagrams

SAFETY INSTRUCTIONS

1.1 Statement

- The source manual provides a one-year quality warranty. Defects during this period are addressed by repair or replacement. Exclusions include incorrect installation or operation, overloading, an unsuitable concrete floor, normal wear and insufficient maintenance.
- This lift is designed exclusively for lifting vehicles. The manufacturer and distributor accept no liability for accidents or damage resulting from other uses.
- Observe the rated capacity marked on the lift. Never attempt to lift a vehicle exceeding this capacity.
- Read this manual before installation and operation to prevent property damage and personal injury caused by misuse.
- Do not modify the controls or mechanical components without the manufacturer's approval.

1.2 Qualified operator and instructions for use

- 1.2.1 Only trained personnel may operate the lift.
- 1.2.2 Electrical connections must be made by a qualified electrician.
- 1.2.3 Untrained persons must not operate the lift.

1.3 Notes

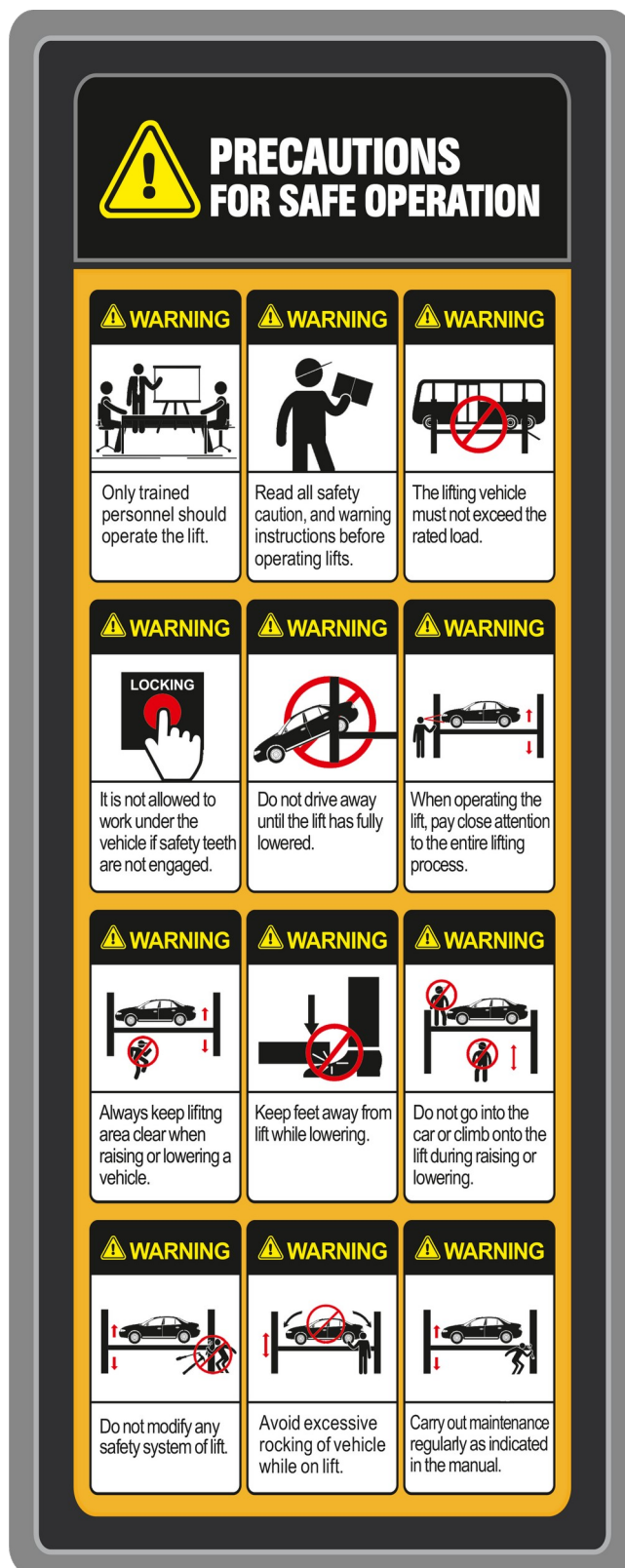
- 1.3.1 Do not install the lift on asphalt. The concrete thickness must meet the specified requirements.
- 1.3.2 Read and understand the safety instructions before operating the lift.
- 1.3.3 The standard lift is intended for indoor use. Outdoor use requires a specifically configured version.
- 1.3.4 Keep hands and feet clear of moving parts, particularly during lowering.
- 1.3.5 Only trained personnel may operate the lift.
- 1.3.6 Do not wear loose clothing that could become caught in moving parts.
- 1.3.7 Keep the lift and surrounding area clean and free of clutter.
- 1.3.8 The lift is designed to raise the entire vehicle. Do not lift only part of a vehicle or exceed the rated capacity.
- 1.3.9 Before working beneath a vehicle, ensure that the lift is resting securely on its safety locks.
- 1.3.10 Where lifting pads are used, position them at the vehicle manufacturer's specified lifting points. Raise slowly and check that the vehicle remains stable, without tilting or slipping, before continuing to the required height.
- 1.3.11 Check for damage, synchronised movement and free operation of moving parts. Maintain the lift regularly. If any abnormal condition occurs, stop using it and contact the distributor immediately.
- 1.3.12 Fully lower the lift after use.
- 1.3.13 Do not modify lift components without the manufacturer's approval.
- 1.3.14 Before prolonged storage:
 - A.A. Disconnect the power. B. Drain the hydraulic oil. C. Lubricate moving parts with hydraulic oil.

WARNING:

Incorrect installation, operation or modification of this parking lift can cause serious or fatal injury. Read this manual carefully and follow its instructions. Dispose of drained fluids responsibly to protect the environment.

1.4 WARNING LABELS

Warning labels identify dangerous conditions and unsafe practices. Keep all labels clean and replace any that are missing or damaged. Read and understand every warning before operating the lift.



Warning labels: meaning

Order: left to right, then top to bottom.

1. Only trained personnel may operate the lift.
2. Read all safety instructions and warnings before use.
3. Never exceed the rated lifting capacity.
4. Do not work beneath the vehicle unless the safety locks are engaged.
5. Drive the vehicle off only after the lift is fully lowered.
6. Watch the entire raising and lowering operation carefully.
7. Keep the lifting area clear while raising or lowering.
8. Keep feet clear of the lift during lowering.
9. Do not enter the vehicle or climb onto the lift while it is moving.
10. Do not modify any safety device.
11. Avoid excessive rocking of the vehicle on the lift.
12. Carry out maintenance regularly as specified in this manual.

1.5 Noise standard

The specified lift noise level is below 75 dB. Monitor noise in the working area; the source manual recommends using a sound-level meter.

INTRODUCTION

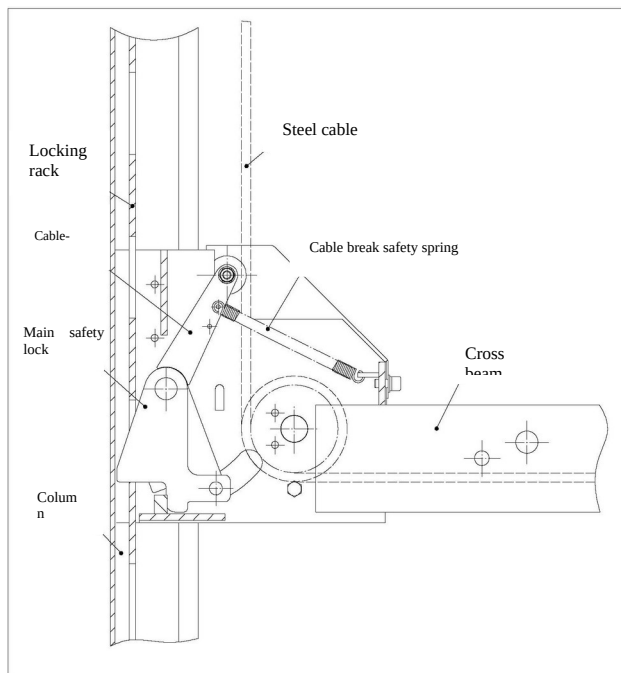
2.1 Product description

A: The four-post parking lift comprises columns, crossbeams, platforms, safety mechanisms, a hydraulic cylinder, a power unit and an optional control box.

B: The power unit drives a gear pump, which supplies hydraulic oil to the cylinder. The piston rod and cables move the platforms and crossbeams to raise the lift.

C: The safety locks engage automatically with the racks inside the columns as the lift rises. They provide mechanical support against unintended lowering caused by hydraulic failure.

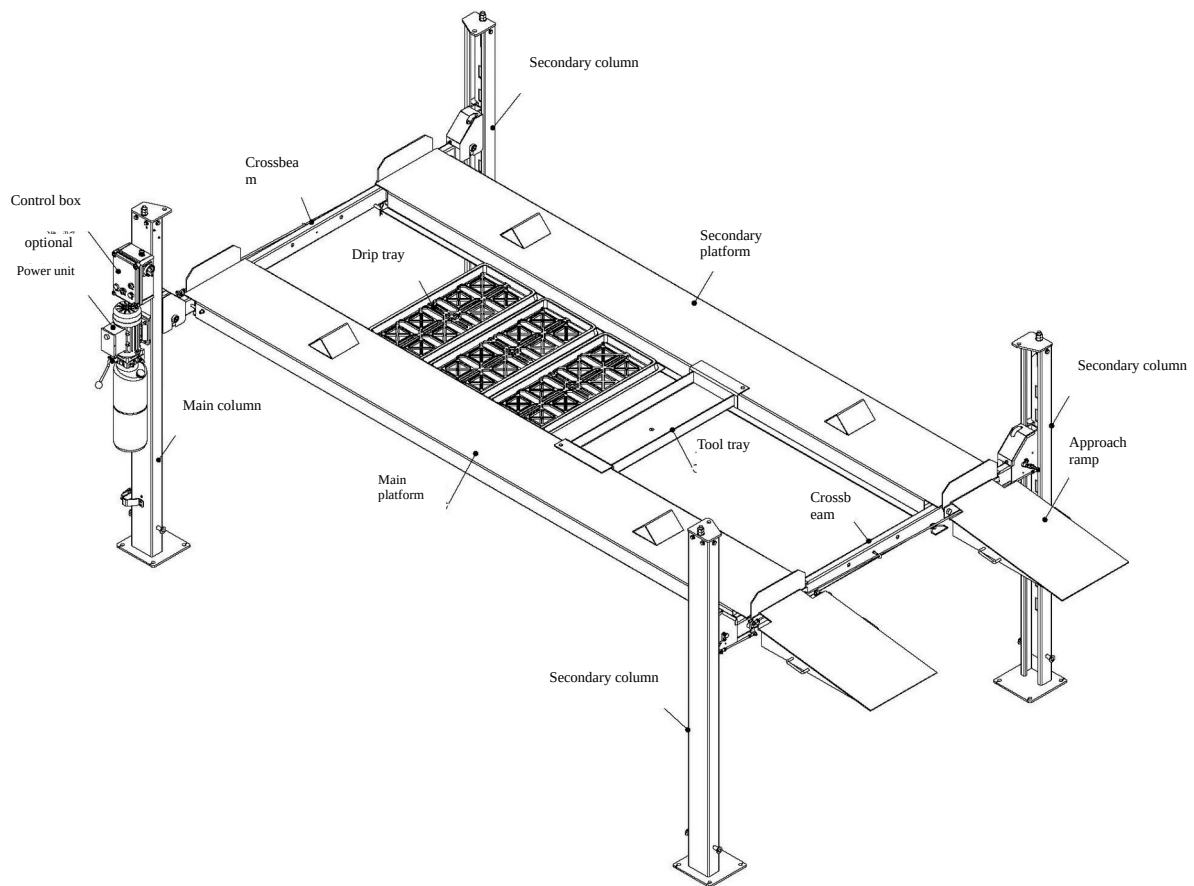
Safety mechanism:



2.2 Technical specifications

Model	Lifting capacity	Rise / fall time	Lifting height	Overall height	Overall	Overall length
PL 4000 XL	4000kg	50 s	1,910 mm	2,280 mm	2,860 mm	5,270 mm

2.3 Main components



INSTALLATION

3.1 Before installation

3.1.1 Required tools and equipment

1. Lifting equipment; 2. Anti-wear hydraulic oil, 10 L; 3. Electric drill; 4. Chalk; 5. Tape measure; 6. Magnetic plumb bob; 7. Ø15 mm water-level hose, 8 m; 8. Open-ended spanner set; 9. Hex-key set.

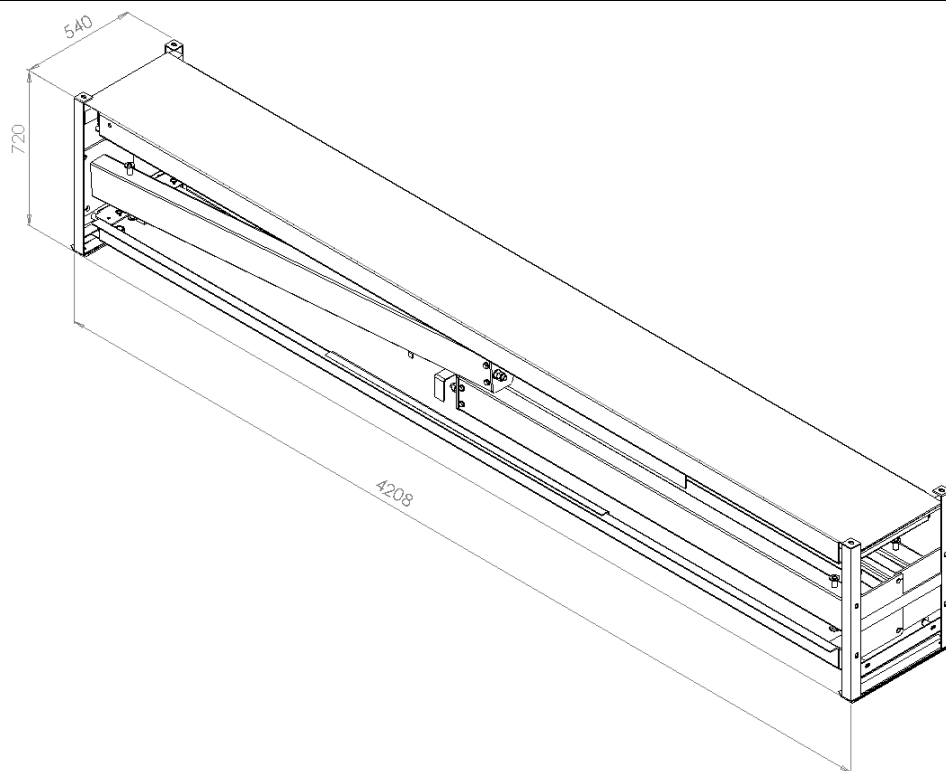
10. Phillips screwdriver; 11. Flat-blade screwdriver; 12. Needle-nose pliers; 13. 17, 19 and 22 mm sockets; 14. 4 lb hammer; 15. Circlip pliers.

3.1.2 Floor requirements

Install the lift on a solid, level concrete floor. Concrete strength must exceed 3,000 psi, thickness must be at least 300 mm and level deviation must be less than 5 mm. Newly poured concrete must cure for more than 20 days.

3.1.3 Check accessories

Unpack and check all components against Appendix 1. Report missing parts immediately to Hammer Tools. The source manual excludes responsibility and free rectification if installation proceeds despite missing components.



Package dimensions

3.2 Precautions during installation

- ▲ During installation, ensure that the columns are parallel and vertical.
- ▲ Secure all hydraulic and cable connections correctly to prevent leaks and loose cables.
- ▲ Tighten all bolts and nuts securely.
- ▲ Do not place a vehicle on the lift during the initial test.

3.3 Installation steps

Step 1: Select a suitable location.

The lift is for indoor use on sound concrete. Do not position it over expansion joints. Installation on a suspended or upper floor requires approval from a qualified building professional.

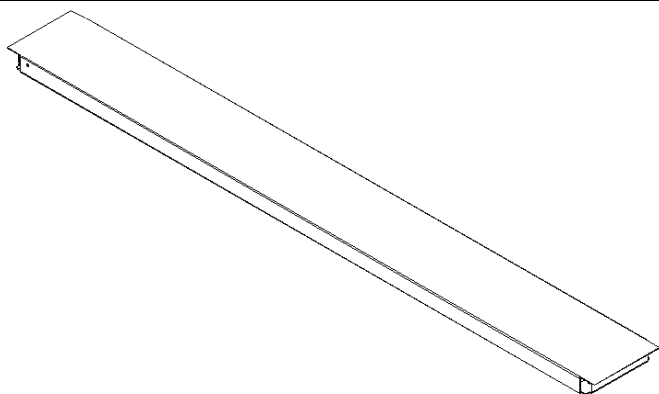
Step 2: Mark the installation position and move the lift to the site using a crane.

Step 3: Remove the packaging.

<1> Place timber blocks more than 100 mm thick on the floor. Use a crane to lower the packaged platforms onto the blocks, keeping the bottom of the packing frame clear of the floor.

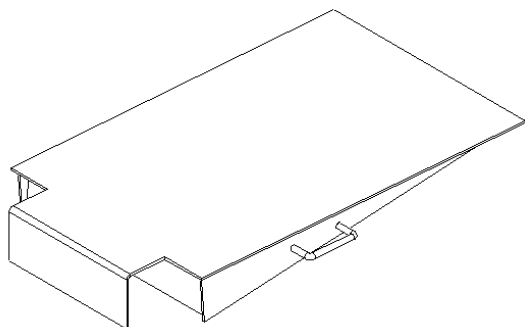
<2> Remove the packing frame.

<3> Remove the screws securing the main platform to the packing frame. Lift the main platform with a crane and place it in a clear area.

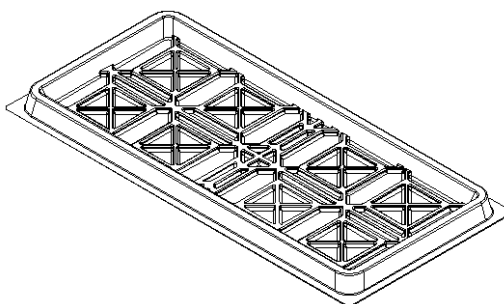


Main platform: 1

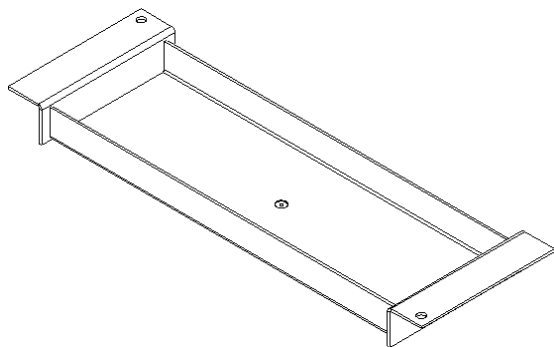
<4> Remove the packaging and set aside A: two approach ramps; B: three drip trays; C: one tool tray; D: one power unit; E: one parts box.



Approach ramps: 2

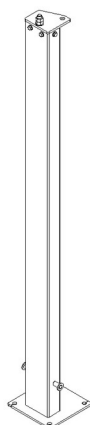
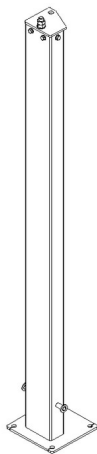
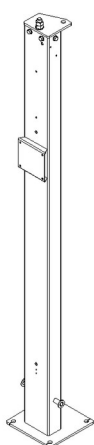


Drip trays: 3



Tool tray: 1

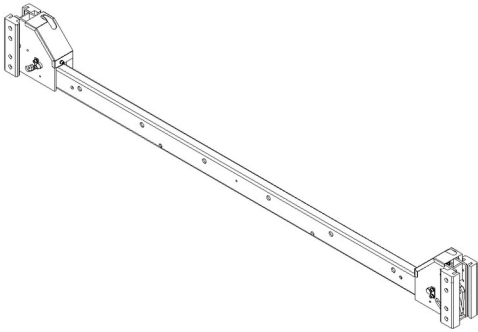
•5• Remove the straps and screws securing the columns to the packing frame. Remove the main and secondary columns and place them in a clear area.



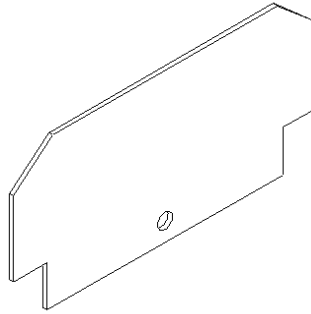
Main column with motor mounting plate: 1 Secondary columns: 2 Secondary column A: 1

HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

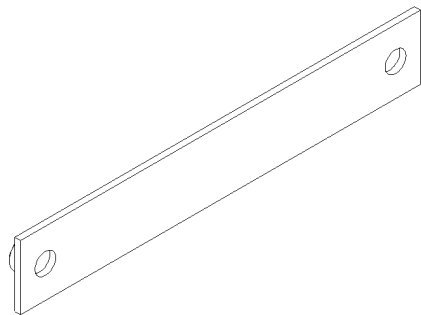
<6> Remove and set aside: A: two crossbeams; B: one safety-linkage assembly; C: four front/rear stops; D: four stop plates; E: four wheel-stop brackets; F: four mobility-kit assemblies.



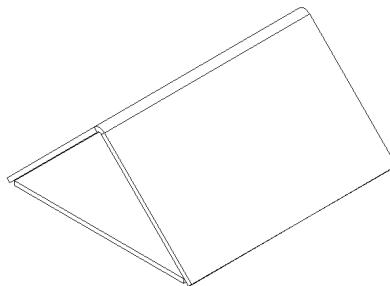
Crossbeams: 2



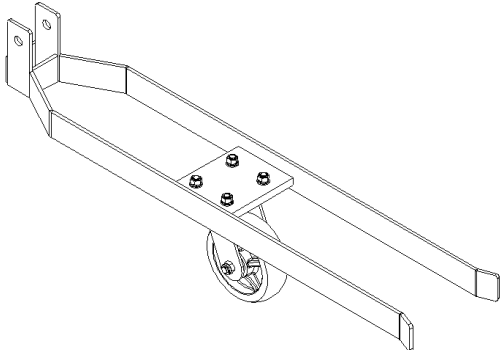
Front/rear stops: 4



Stop plates: 4



Wheel-stop brackets: 4

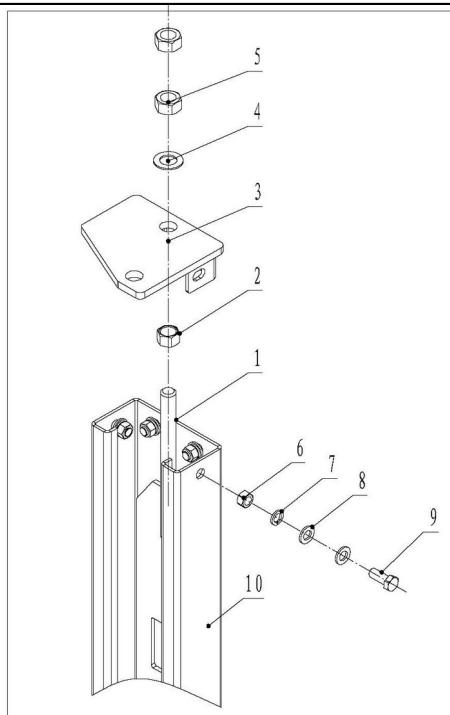


Mobility-kit assemblies: 4

•7• Remove the screws securing the secondary platform to the packing frame. Remove the frame and use a crane to move the platform to a clear area.

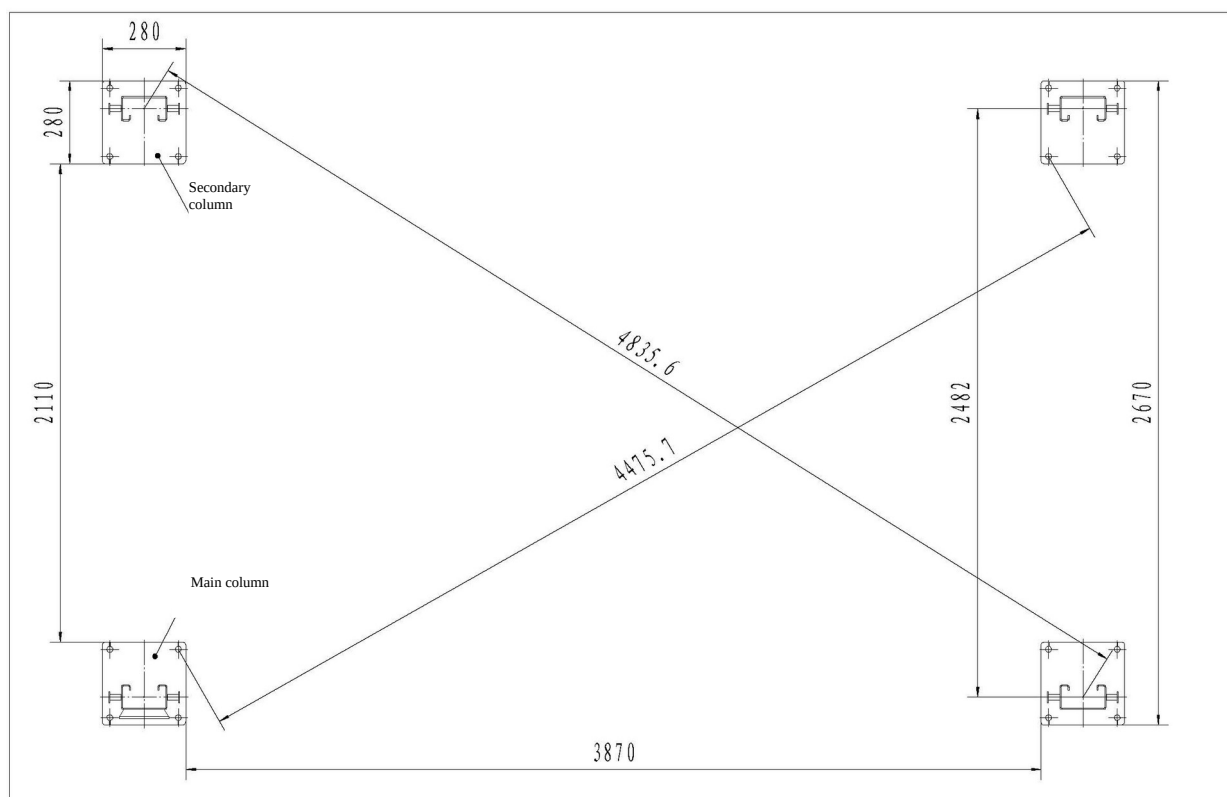
Step 4: Assemble the columns and crossbeams.

•1• Remove the column top plates and locking racks as illustrated.

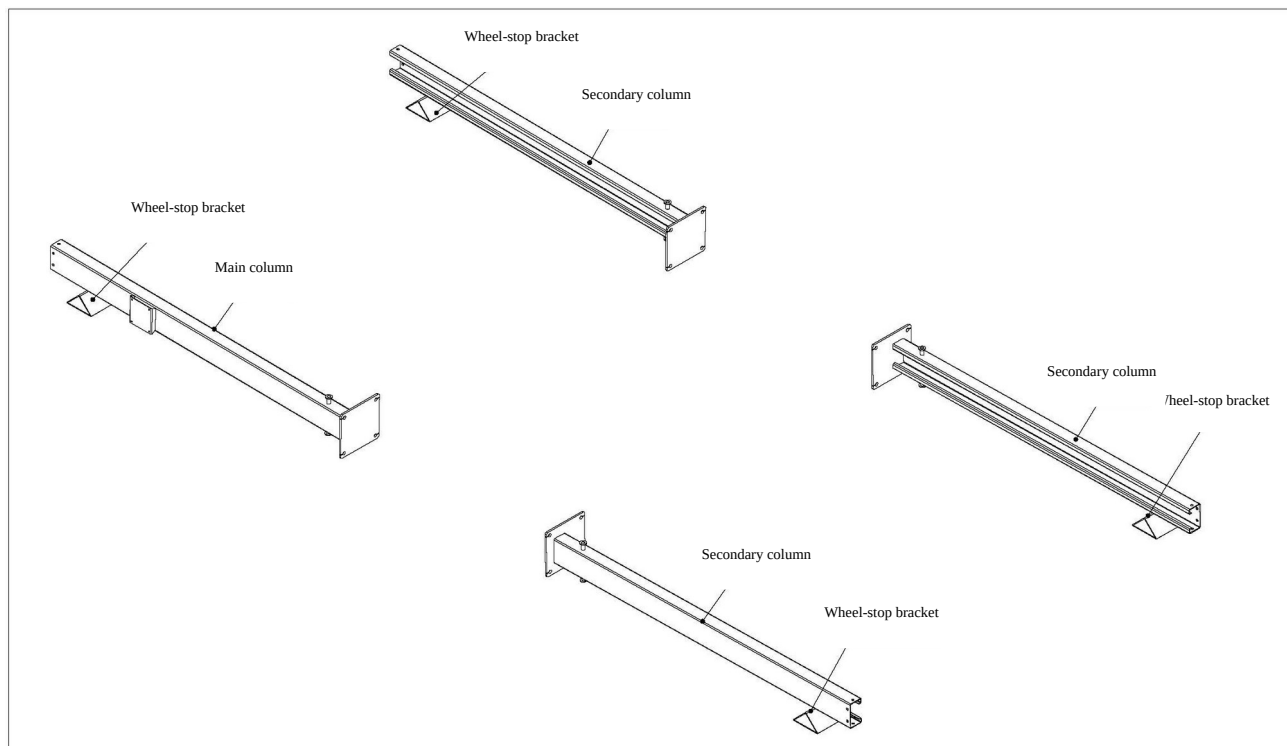


1. Locking rack; 2. Special M20 nut; 3. Column top plate; 4. M20 flat washer; 5. M20 nut; 6. M12 nut; 7. M12 spring washer; 8. M12 flat washer; 9. M12 × 30 hex-head bolt; 10. Column

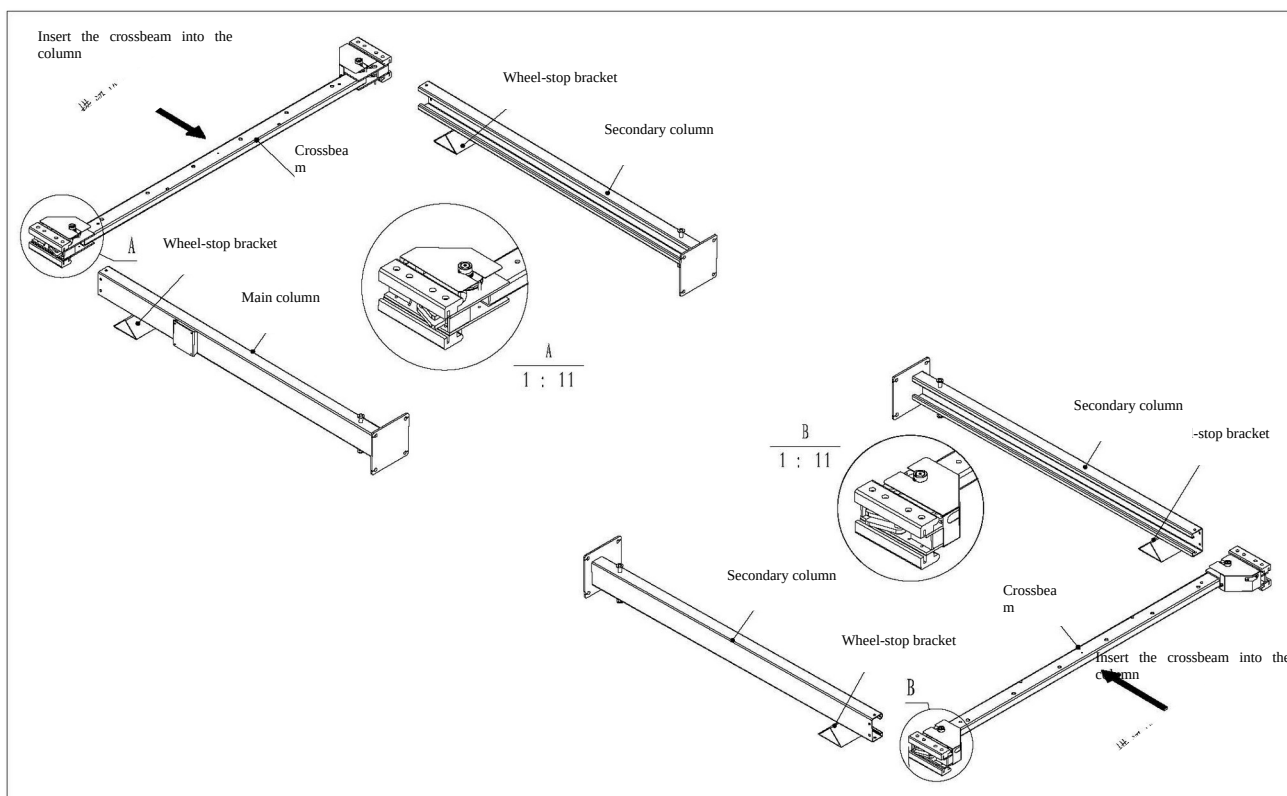
•2• Mark the positions of all four columns using a tape measure and chalk. Check that both diagonals are equal.



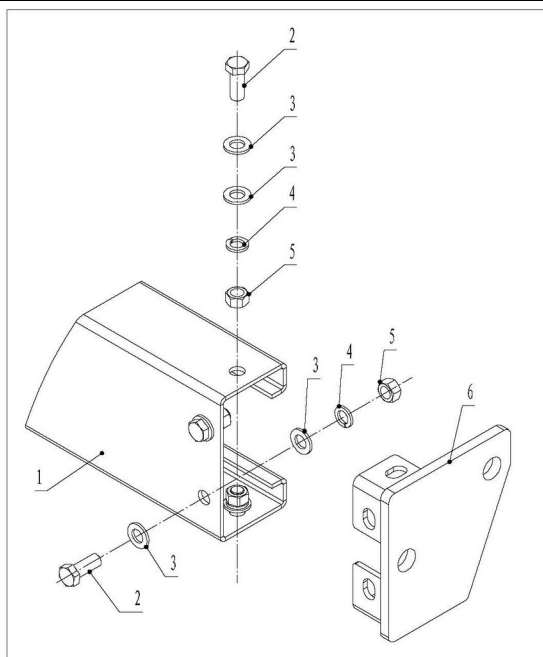
•3• Position the column with its wheel-stop bracket, as illustrated.



•4• Fit the crossbeam into the columns as illustrated. Pay attention to the crossbeam orientation.



•5• Fit the column top plates as illustrated.

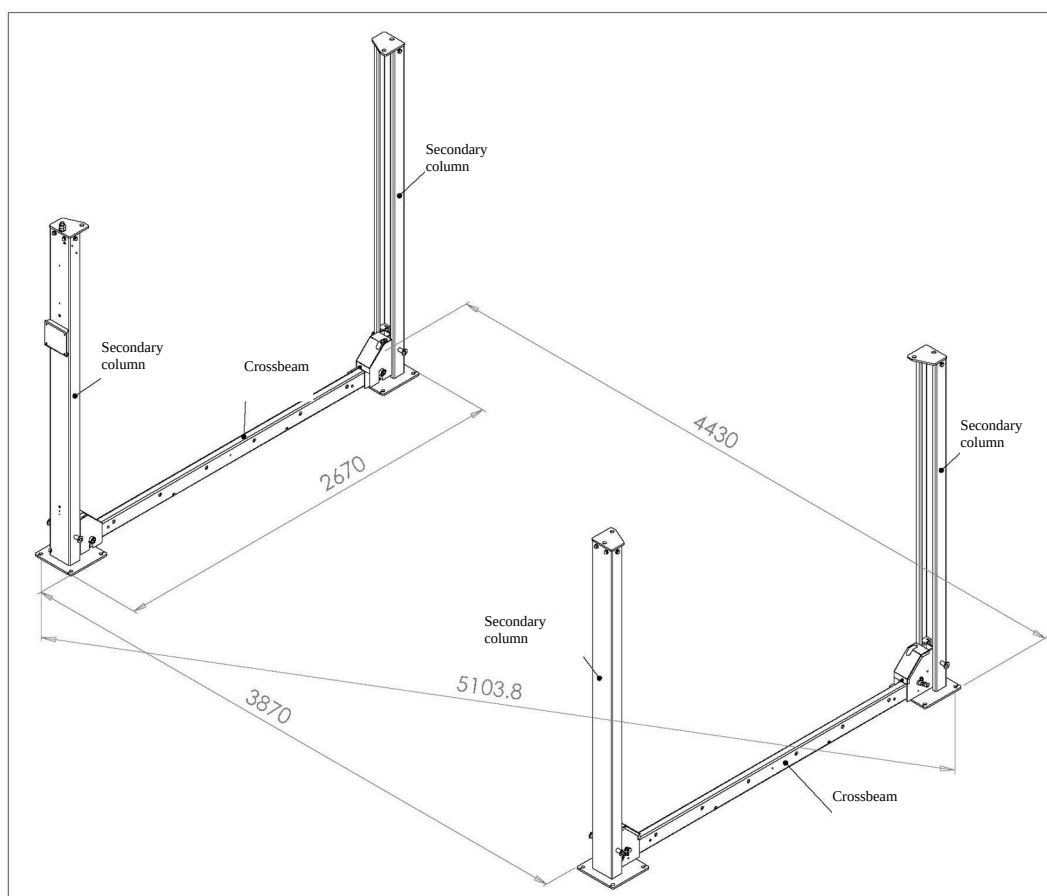


1. Column; 2. M12 × 30 hex-head bolt; 3. M12 flat washer; 4. M12 spring washer; 5. M12 nut; 6. Top plate

<6> Stand the columns upright as illustrated.

Note: After erecting the columns, check their relative positions to ensure correct spacing for platform installation.

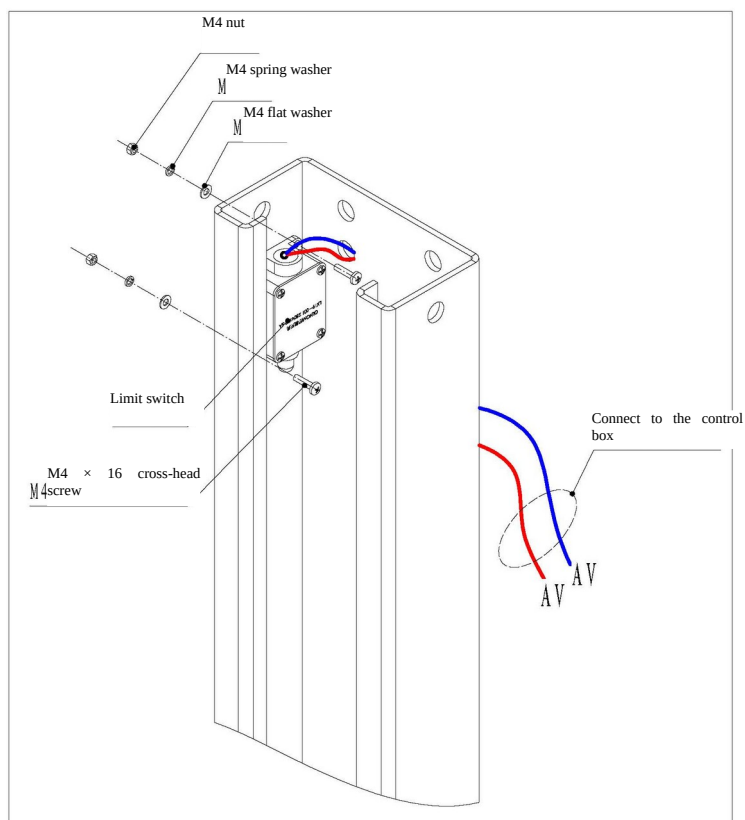
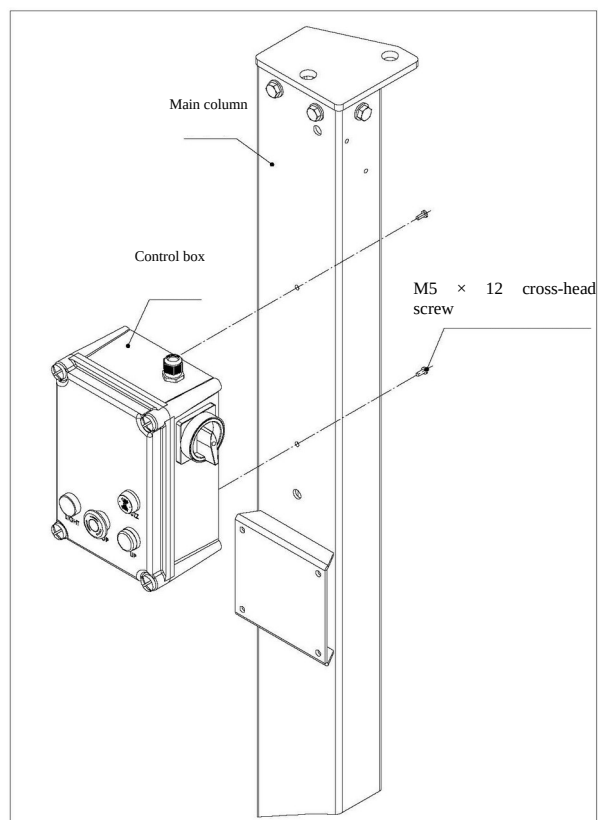
Caution: Observe the illustrated orientation of the main and secondary column top plates.



Step 5: Install the control box as illustrated (optional).

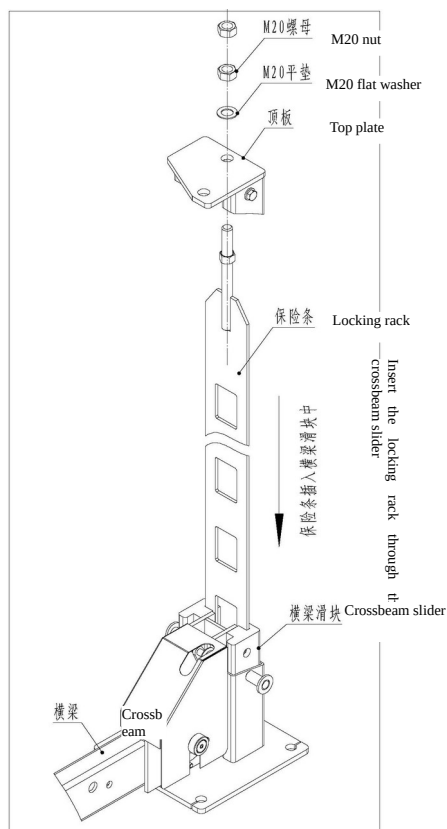
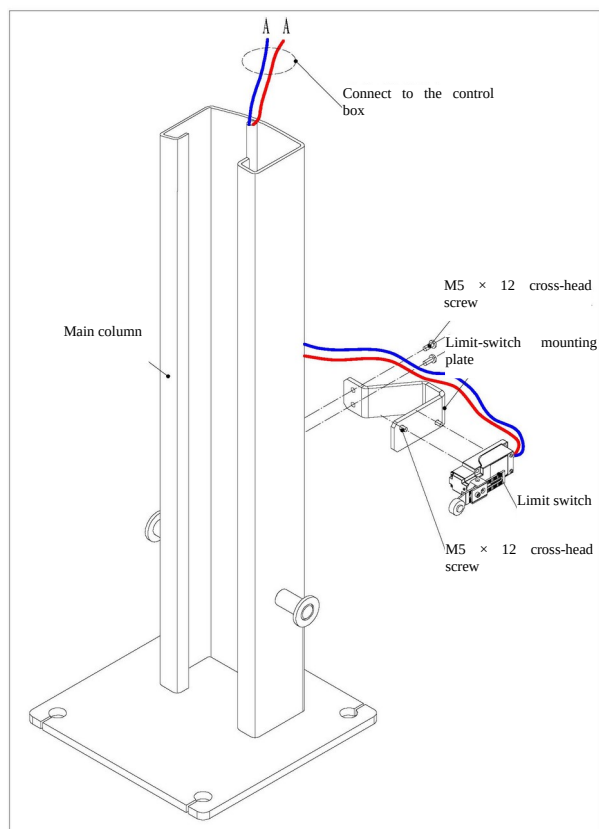
HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

Step 6: Install the upper limit switch as illustrated (optional).



Step 7: Install the second-stage lowering switch as illustrated (optional).

Step 8: Install the locking racks as illustrated.

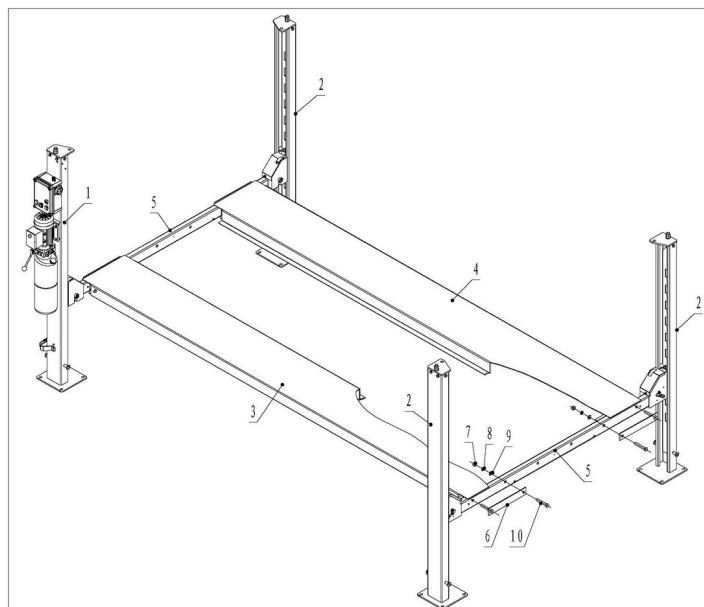


HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

Note: If the optional control box, limit switches and two-stage lowering are fitted, complete steps 5, 6 and 7 before step 8. Otherwise, the wiring cannot be routed correctly to the control box.

Step 9: Install the main and secondary platforms and stop plates.

Rest the crossbeams on the third safety-lock position. Use a crane to position both platforms on the crossbeams. Secure the platforms, crossbeams and stop plates with M18 × 110 hex-head bolts, spring washers, flat washers and nuts, as illustrated.

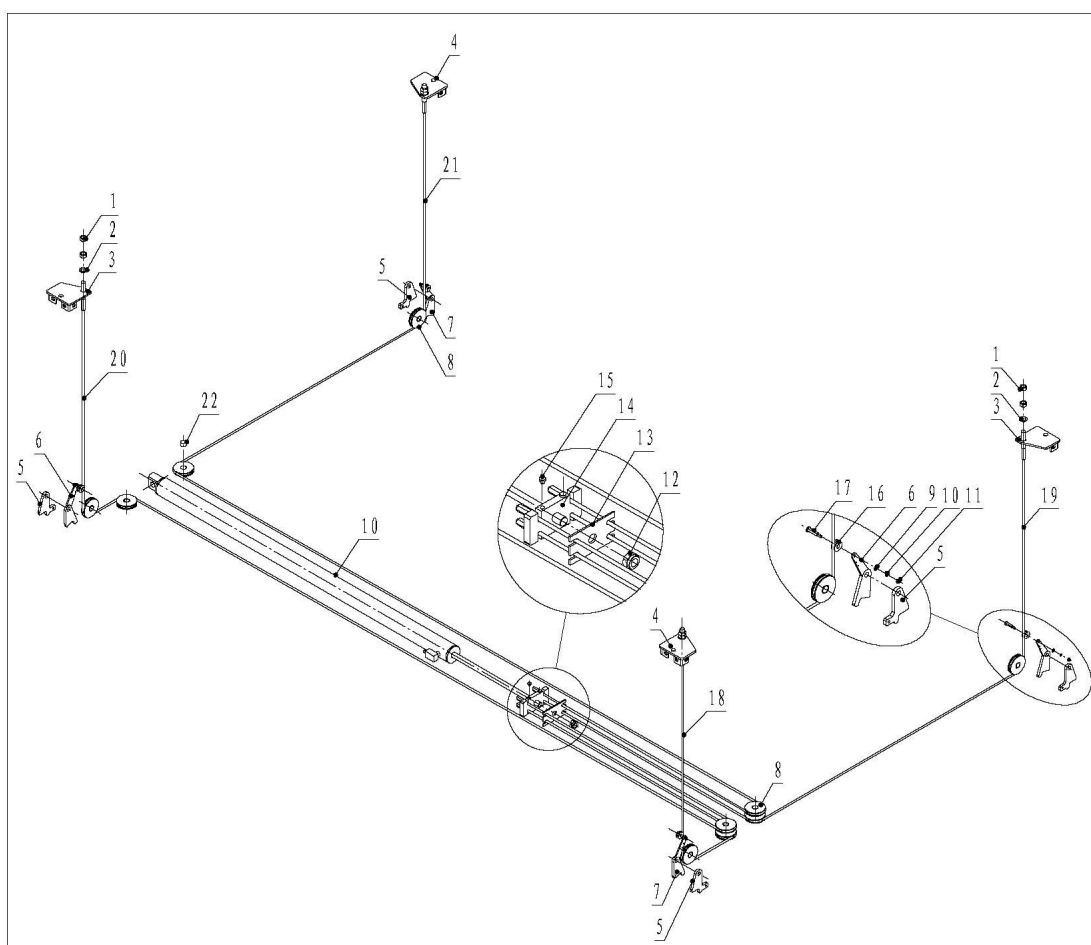
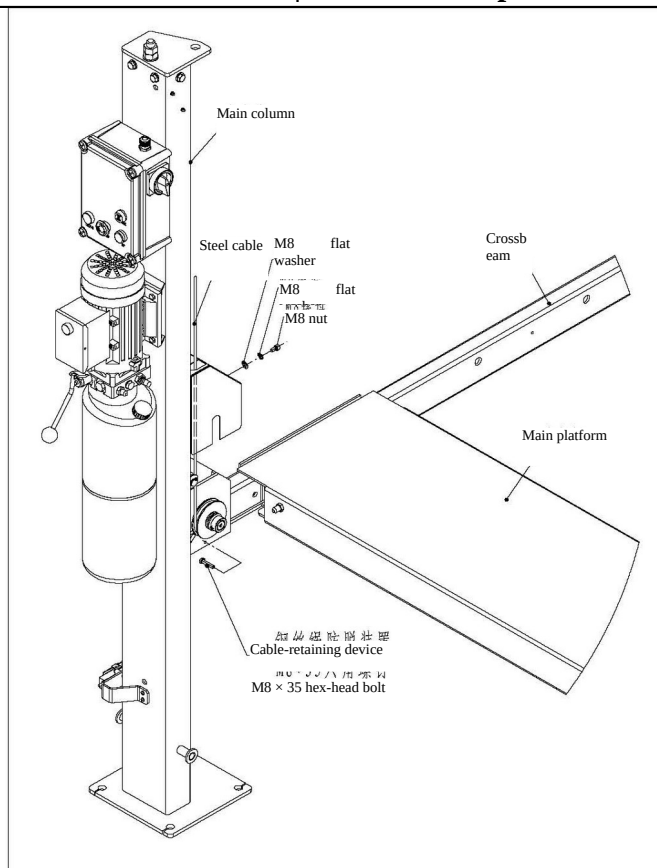


1. Main column; 2. Secondary column; 3. Main platform; 4. Secondary platform; 5. Crossbeams; 6. Stop plate; 7. M18 nut; 8. M18 spring washer; 9. M18 flat washer; 10. M18 × 110 hex-head bolt

Step 10: Install the steel cables.

Note: Remove the cable-retaining devices and crossbeam covers before installing the cables, as illustrated.

Note: Refit all cable-retaining devices and crossbeam covers after cable installation.

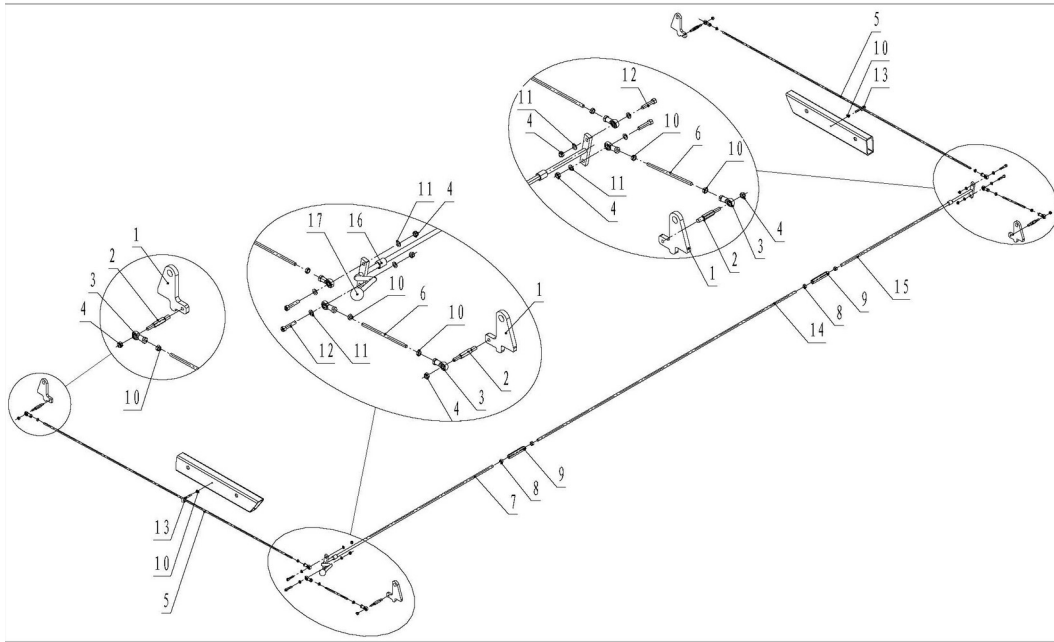


HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

1. M20 nut; 2. M20 flat washer; 3. Main/diagonally opposite column top plate; 4. Secondary/diagonally opposite column top plate; 5. Main safety plate; 6. Main-column cable-break safety lock;

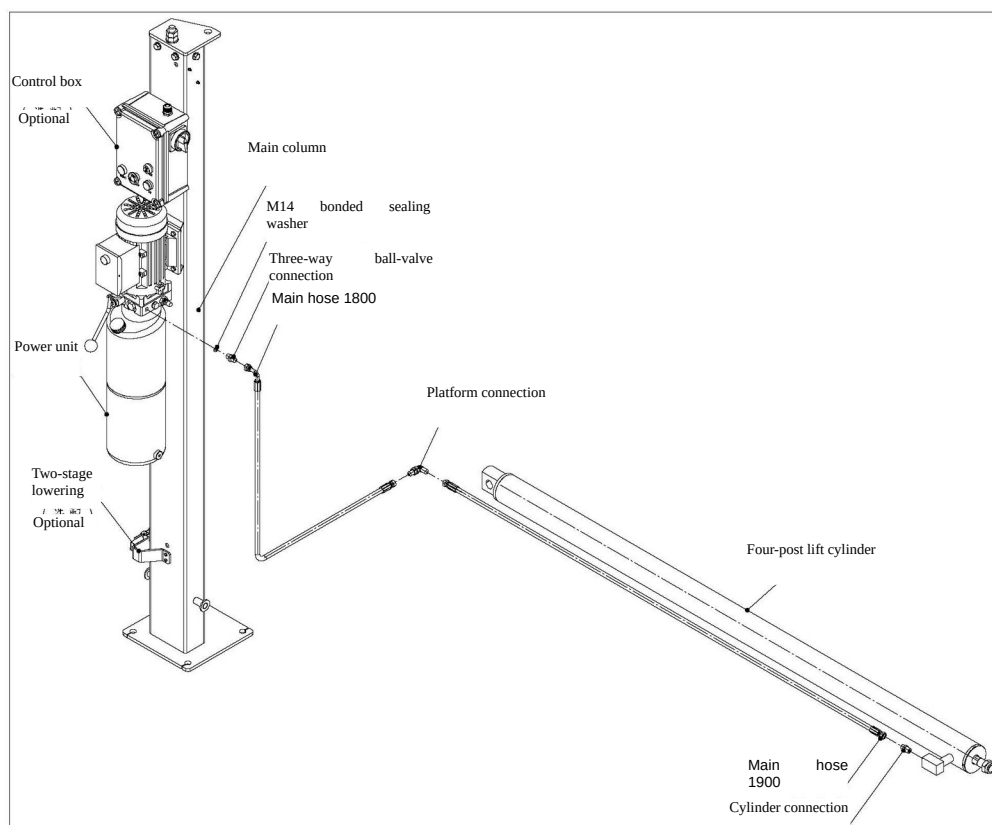
7. Secondary-column cable-break safety lock; 8. Cable pulley; 9. M8 flat washer; 10. M8 spring washer; 11. M8 locknut; 12. M24 × 2 locknut; 13. Cable-holder block; 14. Cable holder; 15. Limit cushion; 16. Cable pulley; 17. Cable-break safety shaft; 18. Cable 2660; 19. Cable 4090; 20. Cable 6730; 21. Cable 8150; 22. Plain bearing 2519

Step 11: Install the safety-lock linkage.

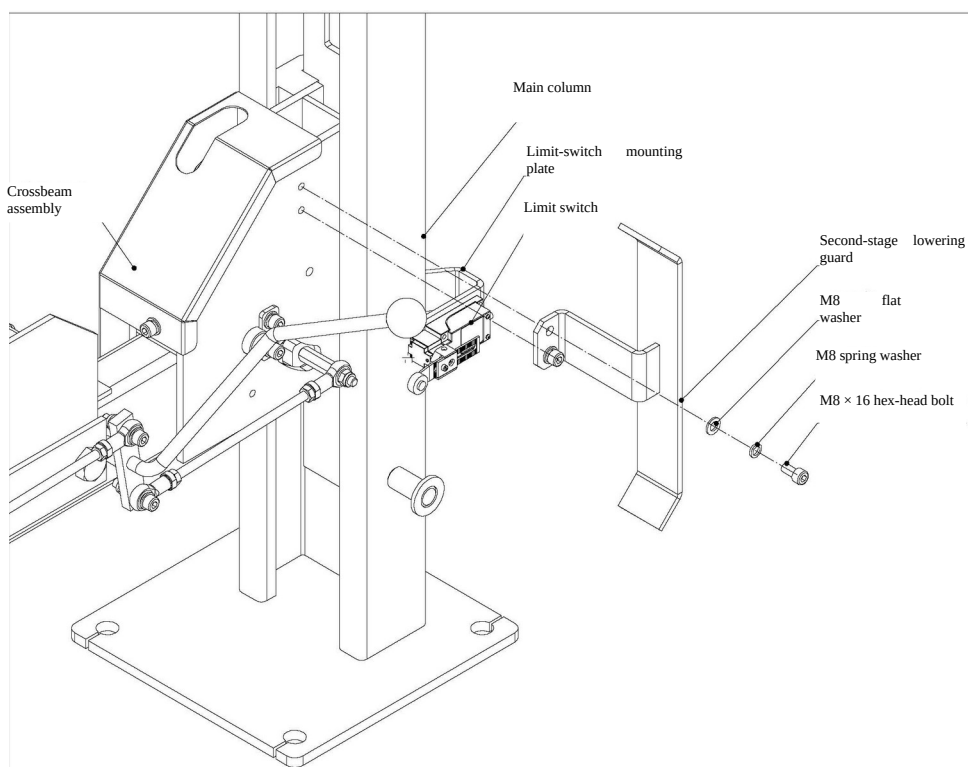


1. Main safety lock; 2. Main safety connecting rod; 3. Universal eye joint; 4. M8 locknut; 5. Long tie rod; 6. Short tie rod; 7. Main safety handle; 8. M12 nut; 9. Threaded connecting rod; 10. M8 nut; 11. M8 flat washer; 12. M8 × 40 hex-head bolt; 13. Long-rod retaining ring; 14. Safety-handle connecting rod; 15. Auxiliary safety rod; 16. Handle spacer sleeve; 17. Plastic cup

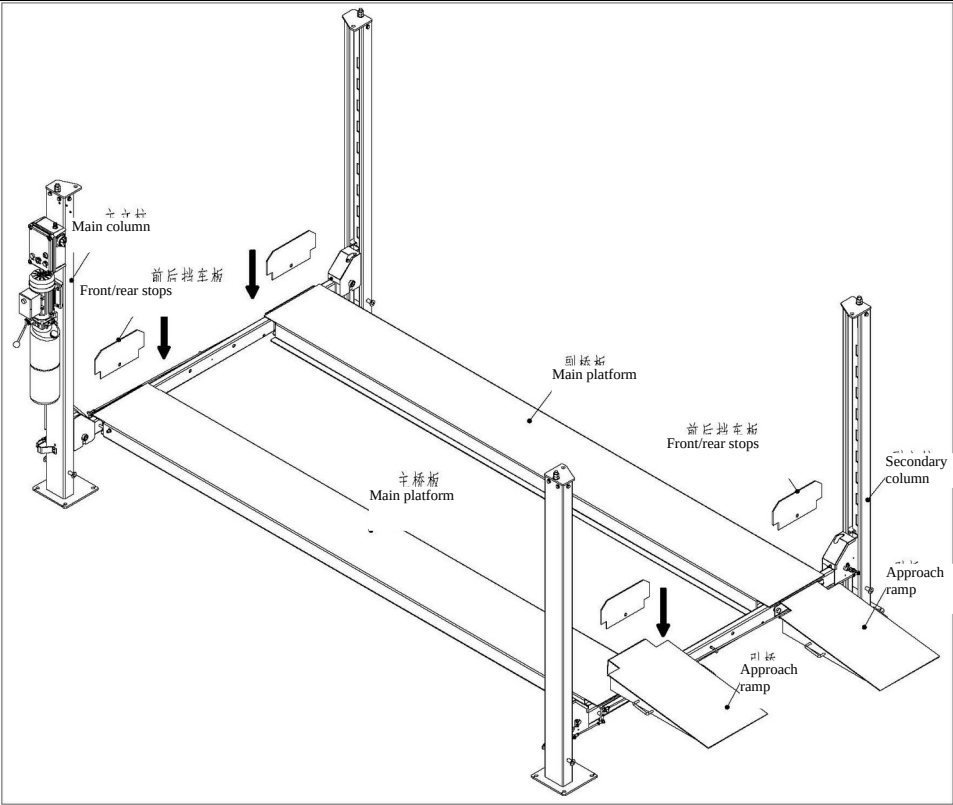
Step 12: Install the hydraulic hose connections.



Step 13: Fit the second-stage lowering guard to the crossbeam as illustrated (optional).



Step 14: Install the front/rear stops and approach ramps as illustrated.

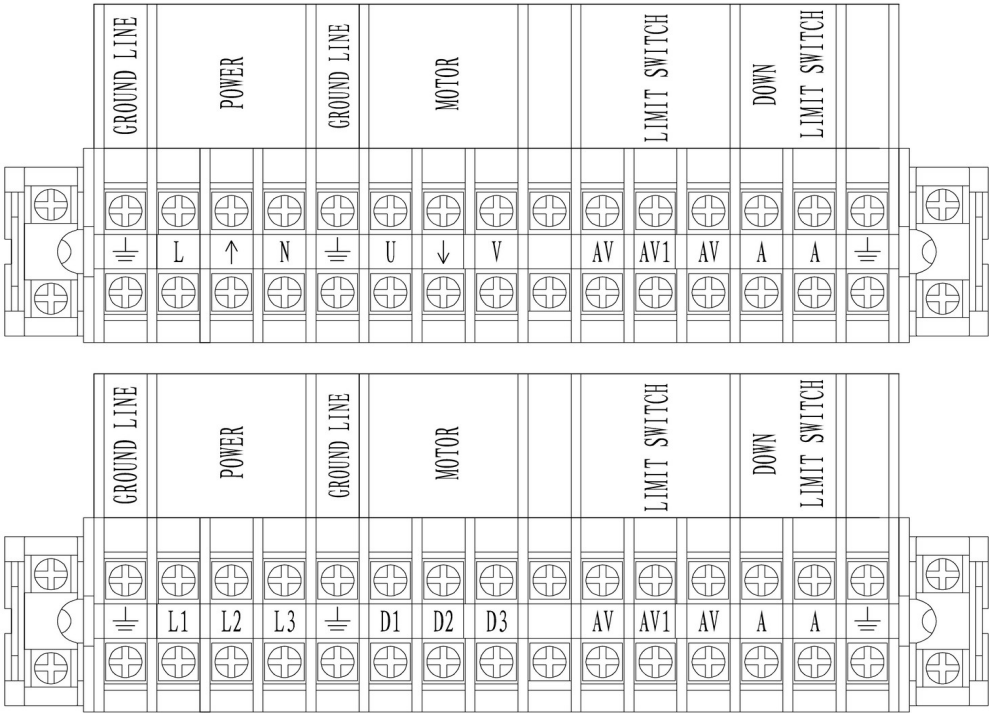


Step 15: Fill with hydraulic oil.

Above 18 °C, the source manual recommends ISO VG 46 anti-wear hydraulic oil; below 18 °C, ISO VG 32. Oil viscosity affects lifting speed. The tank capacity is 10 L. The normal fill level is approximately 80% of capacity.

Step 16: Connect the power and carry out a test run.

- 1. Connect the power supply according to the lift's rating plate.
- 2. Check the mechanical safety locks.
- 3. Do not place a vehicle on the lift during the test run.
- 4. Check that all connections are secure and correctly made.



Step 17: Level the lift at all four corners.

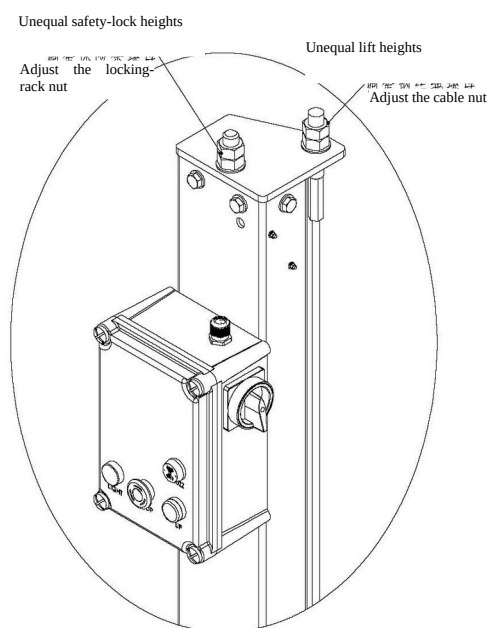
Do not place a vehicle on the lift during adjustment.

A: Levelling the lift

Switch on the power, release the emergency stop and press UP until all cables are tensioned. Measure the height of both ends of each crossbeam above the column base plates. Adjust the cable nuts at the column tops until all four heights are equal.

B: Levelling the safety-lock positions

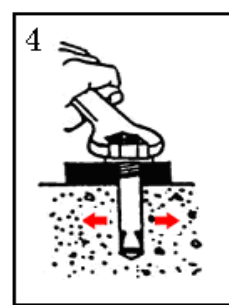
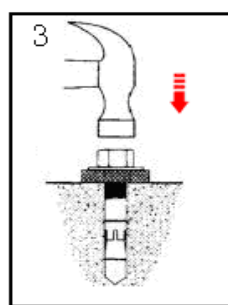
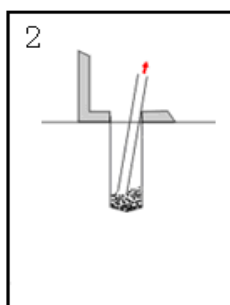
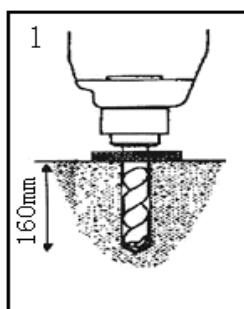
Operate the lowering lever until the lift rests on its safety locks and the cables are slack. Measure the height of both ends of each crossbeam above the column base plates. Adjust the locking-rack nuts at the column tops until all four heights are equal.



Step 18: Anchor the four-post parking lift.

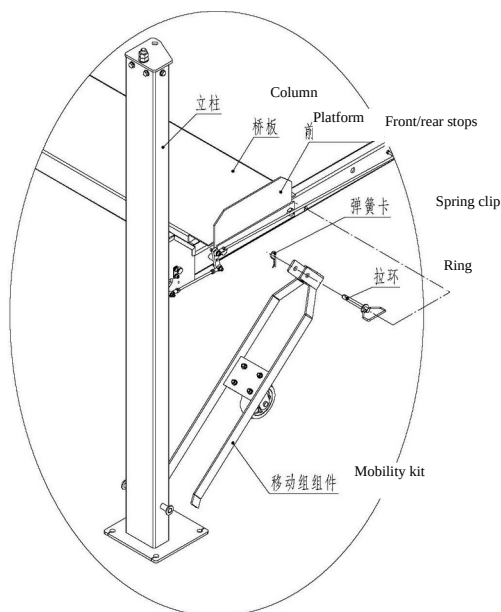
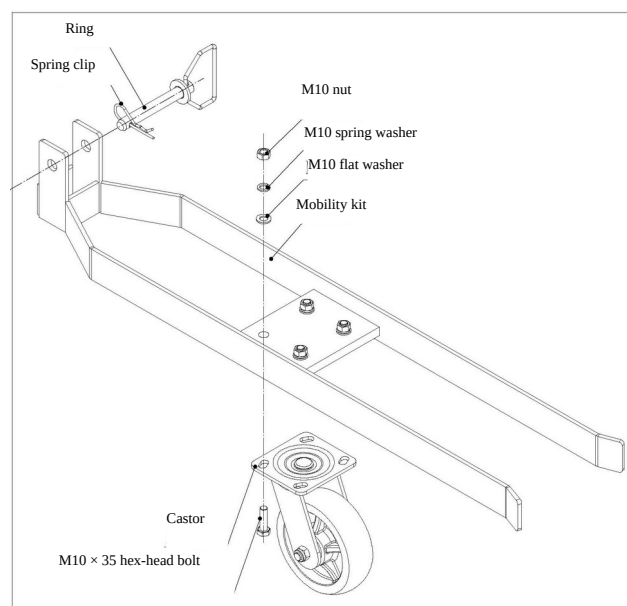
Install expansion anchors according to the foundation drawing. First check the relative positions of all four columns; deviation must not exceed 5 mm. Mark the base-plate outlines with chalk, then proceed as follows:

1. Drill the anchor holes with a rotary hammer. Keep the drill vertical.
2. Drill the required holes and remove all dust. Keep the base plates aligned with the marked outlines.
3. If levelling shims are required, insert suitable shims to ensure that each column is vertical. Then tighten the expansion anchors.
4. Position the main column on its chalk outline. Secure the secondary columns using steps 1-3.



Drill hole Remove dust Insert anchor Tighten

Step 19: Using the mobility kit.



Mobility-kit components

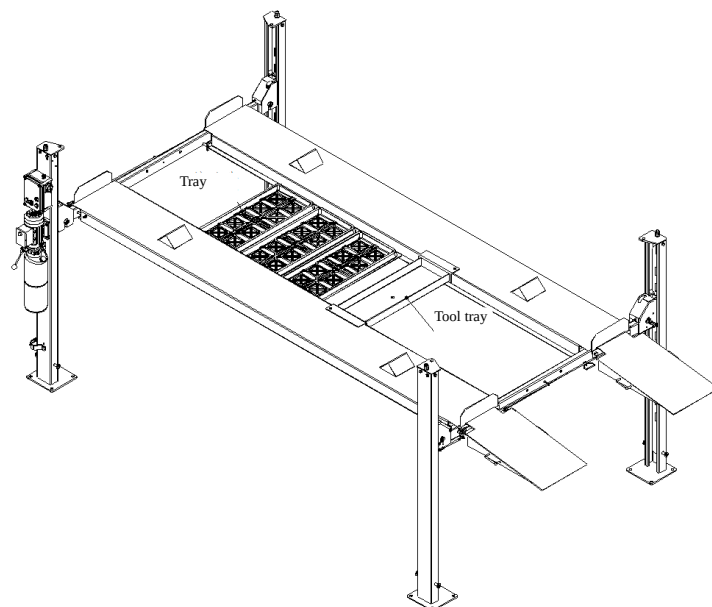
Mobility kit fitted to the lift

The mobility kit is used as follows:

A: Its sole purpose is to move the complete lift.

B: Remove the mobility kit before lifting a vehicle and secure the lift with expansion anchors.

Step 20: Install the drip trays and tool tray.



WARNING:

1. The steps above complete installation of the four-post parking lift.

2. Product specifications may change without notice as part of ongoing development.

3.4 Checks after installation

1. Columns vertical. 2. Hydraulic connections correct. 3. Cables correctly connected. 4. Both platforms correctly installed.

5. Electrical connections correct. 6. All other fasteners secure. 7. All required lubrication points lubricated.

OPERATION

4.1 Operating instructions

4.1.1 Check all connections and hydraulic hoses. Only use the lift if there are no oil leaks.

4.1.2 Do not use the lift if any safety device is faulty.

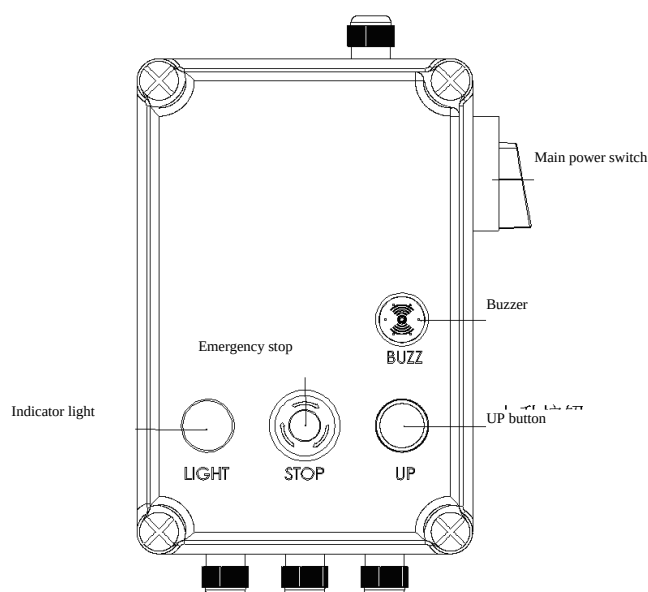
4.1.3 Do not raise or lower a vehicle if its centre of gravity is outside the support area. The manufacturer accepts no liability for the consequences of such misuse.

4.1.4 All personnel must remain in a safe position while the lift is moving.

4.1.5 Switch off the power when the lift is raised to prevent unauthorised operation.

4.1.6 Before working beneath a vehicle, use the lowering lever to rest the lift on its safety locks. Nobody may remain beneath the vehicle while the lift is being raised or lowered.

4.2 Control panel (optional)



4.3 Operating sequence (optional control box and two-stage lowering)

Raising	Lowering
Press the UP button	Raise the lift by 30-50 mm
The motor drives the hydraulic gear pump	Release the safety locks and operate the lowering valve
The piston rod moves the crossbeams through the cables	The lift lowers
The four cables synchronise movement	The buzzer sounds at the lower limit switch
The lift rises	The lift continues to lower

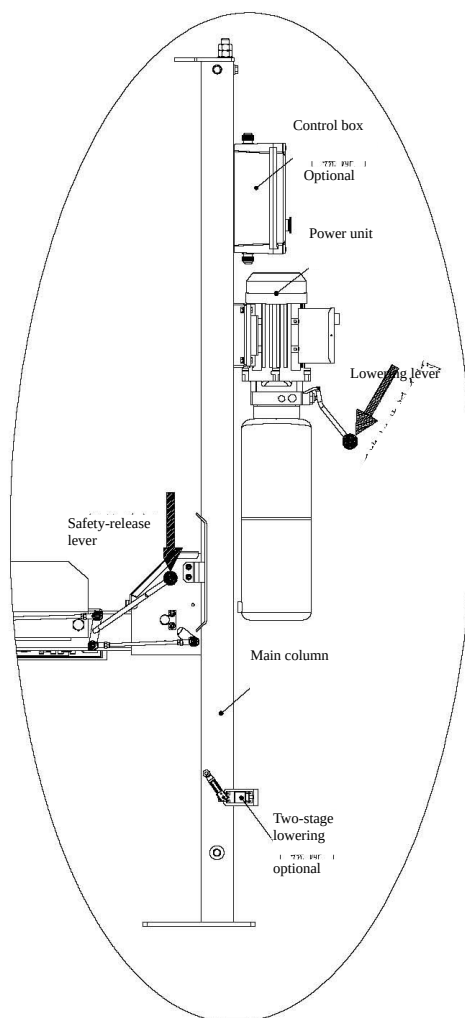
4.4 Operating procedure

Raising the lift

1. Switch on the power.
2. Centre the vehicle on the platforms. Incorrect positioning creates a risk of overturning.
3. Hold the UP button until the required height is reached. The lift stops as soon as the button is released.
4. Check that the vehicle is stable. Use the lowering-valve lever on the power unit to rest the lift on the safety locks. Switch off the power before working beneath the vehicle.

Lowering the lift

1. Check that the area below the lift is clear of obstructions.
2. Switch on the power.
3. Press the UP button to unload the safety locks.
4. Hold the safety-release lever and the lowering lever on the power unit. The lift lowers.
5. At the lower limit switch, the buzzer sounds. The lift continues to its lowest position (optional function).
6. Drive the vehicle off the lift.



TROUBLESHOOTING

Caution: If you cannot resolve a fault, contact Hammer Tools. Provide a description and photographs to assist diagnosis.

Fault	Cause	Remedy
Excessive noise	Friction inside the column	Apply lubricant
	Obstruction inside the column	Remove the obstruction
Motor does not start	Motor winding open-circuit or burnt out	Replace the motor
	Poor electrical contact	Check wiring and connections
	Limit switch disconnected, incorrectly adjusted or faulty	Reconnect, adjust or replace the limit switch
Motor runs but lift does not rise	Incorrect motor rotation	Have the wiring corrected by a qualified
	Relief valve loose or blocked	Adjust or clean the relief valve
	Gear pump damaged	Replace the gear pump
	Insufficient hydraulic oil	Top up hydraulic oil
	Suction pipe loose or detached	Secure the suction pipe
	Cushion valve loose or blocked	Tighten or clean the cushion valve

HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

Fault	Cause	Remedy
Lift lowers by itself	Cylinder seal defective	Replace the seals
	Oil hose leaking	Replace the oil hose
	Check valve leaking internally	Dismantle, clean or replace
	Relief valve defective	Dismantle, clean or replace
	Manual or solenoid lowering valve defective	Dismantle, clean or replace
	Cable slack	Check that cable tension is even
Lift rises slowly	Oil filter blocked	Clean or replace
	Air in the hydraulic oil	Top up hydraulic oil
	Relief valve incorrectly adjusted	Adjust
	Hydraulic oil too hot (above 45 °C)	Replace the hydraulic oil
	Cylinder seal worn	Replace the seals
	Insufficient cylinder lubrication	Renew the lubricant
Lift lowers slowly	Lowering restrictor stuck or obstructed	Clean or replace
	Hydraulic oil contaminated	Replace the hydraulic oil
	Hose-burst protection valve obstructed	Replace the hose-burst protection valve
	Hydraulic hose obstructed	Hydraulic hose obstructed
Uneven cable movement	Cable not greased during installation	Replace the cable

MAINTENANCE

The maintenance operations are described below. Regular inspection helps reduce operating costs and prolong the service life of the lift.

Adjust the maintenance intervals to the operating conditions and frequency of use.

Lubricate the following components:

- A: Steel cables
- B: Sliding blocks inside the columns
- C: All cable-pulley shafts
- D: Main safety-lock mechanism
- E: Cable-break safety mechanism

6.1 Daily checks before use

Check the lift daily, especially the safety locks. Detecting faults before operation can prevent property damage, downtime and serious or fatal injury.

- ▲ Listen for the safety locks engaging during operation.
- ▲ Check hydraulic connections and hoses for leaks.
- ▲ Inspect chain and cable connections, wiring and switches for damage.
- ▲ For fixed installations, check that the expansion anchors are secure.

6.2 Weekly maintenance

- ▲ Check that moving parts operate freely.
- ▲ Check the safety devices as described above.
- ▲ Check the hydraulic oil level. If the lift does not reach its full height, check the level and top up as necessary.
- ▲ For fixed installations, check that the expansion anchors are secure.

6.3 Monthly maintenance

- ▲ Check that all screws are secure.
- ▲ Check the hydraulic system for leaks and tighten loose connections.
- ▲ Check lubrication and wear of pins, rollers, bushes and load-bearing structures, including extensions. Replace damaged parts with original spare parts.
- ▲ Check cable lubrication and wear.

6.4 Annual maintenance

- ▲ Drain the tank and check the condition of the hydraulic oil.
- ▲ Clean the oil filter.

Caution: Carrying out these maintenance operations regularly helps keep the lift in good working condition.

APPENDICES

Appendix 1: Packing list

No.	Part number	Description	Supply type	No.	Notes
1	None	Main platform	Assembly	1	
2	None	Secondary platform	Assembly	1	
3	None	Main column	Assembly	1	
4	None	Secondary column	Assembly	2	
5	None	Secondary column A	Assembly	1	
6	None	Crossbeam assembly	Assembly	2	
7	XH-6440T-5000-00	Welded approach ramp	Weldment	2	
8	XH-6440T-3000-18	Tray	Purchased part	3	
9	XH-6440T-3000-17-00	Welded tool tray	Weldment	1	
10	None	Power unit	Purchased part	1	380/220 V, depending on configuration
11	None	Mobility-kit components	Assembly	4	
12	XH-6440T-3000-16	Front/rear stops	In-house part	4	
13	XH-6440T-3000-15-00	Wheel-stop plate	Weldment	4	
14	XH-6435-3000-26	Wheel-stop bracket	Weldment	4	
15	None	Safety-lock mechanism		1 set	
16	None	Parts box		1	

Optional parts list

No.	Part number	Description	Supply type	No.	Notes
1	XH-6440T-4000-01	Welded main handle	Weldment	1	Galvanised
2	XH-6440T-4000-02	Welded auxiliary safety rod	Weldment	1	Galvanised
3	None	M8 × 40 hex-head bolt	Purchased part	4	Galvanised
4	None	M8 flat washer	Purchased part	4	Galvanised
5	None	M8 locknut	Purchased part	4	Galvanised
6	XH-6440T-4000-03	Main-to-secondary safety-handle connecting rod	Purchased part	1	Galvanised
7	XH-6440T-4000-04	Handle spacer sleeve	Purchased part	2	Galvanised
8	XH-6440T-4000-05	Threaded connecting rod	Purchased part	2	Galvanised
9	None	M12 nut	Purchased part	4	Galvanised
10	XH-6440T-4000-07	Long rod	Purchased part	2	Galvanised
11	None	M8 nut	Purchased part	4	Galvanised
12	XH-6435-2000-28	Rubber ball	Purchased part	1	

Spare parts list

No.	Part number	Description	Supply type	No.	Notes
1	None	M16 × 120 expansion anchor	Purchased part	16	Galvanised
2	None	M8 × 25 hex-head bolt	Purchased part	4	Galvanised
3	None	M8 flat washer	Purchased part	4	Galvanised
4	None	M8 spring washer	Purchased part	4	Galvanised
5	None	M8 nut	Purchased part	4	Galvanised
6	XH-6440T-2000-14	Main safety link	Purchased part	4	Galvanised
7	None	M10 locknut	Purchased part	4	Galvanised
8	XH-6440T-2000-13	Long tie-rod retaining ring	Purchased part	2	Galvanised
9	None	M8 nut	Purchased part	2	Galvanised
10	None	M18 × 110 hex-head bolt	Purchased part	8	Galvanised
11	None	M18 flat washer	Purchased part	8	Galvanised
12	None	M18 spring washer	Purchased part	8	Galvanised
13	None	M18 nut	Purchased part	8	Galvanised
14	XH-6440T-4000-06	Tie rod	Purchased part	2	Galvanised
15	None	M8 hex nut	Purchased part	4	Galvanised
16	XH-6440T-4000-08	Universal lifting eye	Purchased part	8	Galvanised
17	XH-6440T-6000-03	Ring	Purchased part	4	Galvanised
18	XH-6440T-3000-21	Spring clip	Purchased part	4	Galvanised
19	XH-6440T-7000-04	Main oil hose, 1,800 mm	Purchased part	1	
20	XH-6435-6000-02	Three-way ball-valve connection	Purchased part	1	Include in the parts box when the pump unit is not supplied
21	None	M14 bonded sealing washer	Purchased part	1	
22	None	Instructions		1	

Optional

HAMMER TOOLS - PL 4000 XL | Installation, operation and maintenance

No.	Part number	Description	Supply type	No.	Notes
1	None	Control box	Purchased part	1	220/380 V, depending on configuration
2	None	M5 × 12 cross-head screw	Purchased part	2	
3	XH-6240PLL-4000-11	Limit switch	Purchased part	1	Limit switch with 1 m cable, 2 × 0.75 mm ² (upper limit switch)
4	None	M4 × 16 cross-head screw	Purchased part	4	
5	None	M4 flat washer	Purchased part	4	
6	None	M4 spring washer	Purchased part	4	
7	None	M4 nut	Purchased part	4	
8	XH-6440T-9000-01-03	Second-stage limit-switch mounting plate	In-house part	1	Limit switch with 1.8 m cable, 2 × 0.75 mm ² (two-stage lowering)
9	XH-6440T-9000-02-01-00	Welded second-stage lowering guard plate	In-house part	1	
10	XH-6240HE-1000-05	Limit-switch assembly	Purchased part	1	
11	None	M5 × 12 cross-head screw	Purchased part	4	
12	None	M8 × 16 hex-head bolt	Purchased part	2	
13	None	M8 spring washer	Purchased part	2	
14	None	M8 flat washer	Purchased part	2	

WARNING:

Two-stage lowering requires the control box

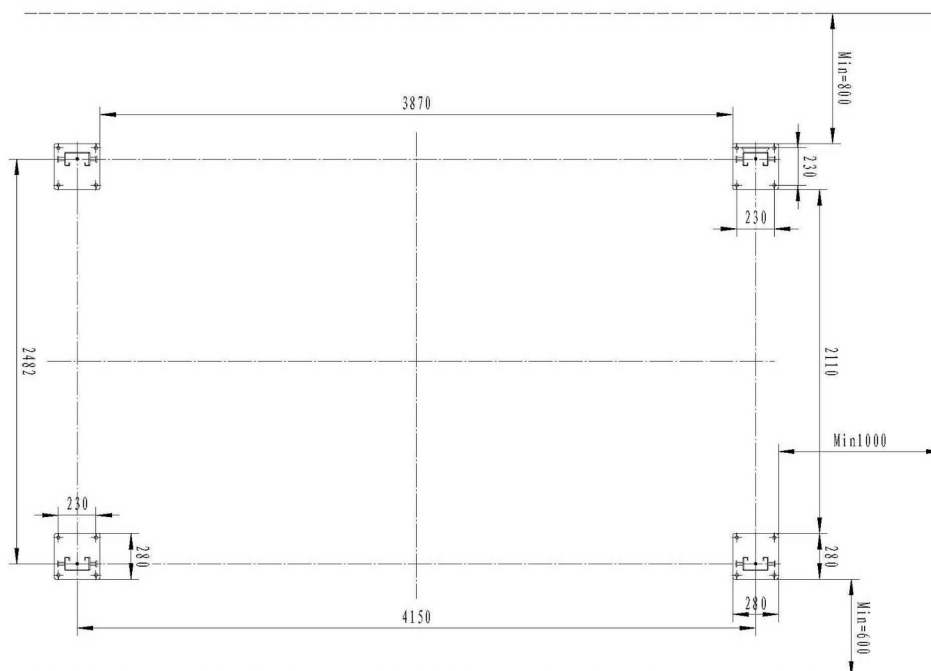
Appendix 2: Overall dimensions

Overall width	2860 mm
Width with motor rotated 90°	2560 mm
Length excluding ramps	4320 mm
Length including ramps	5270 mm
Overall height	2280 mm
Lifting height	1910 mm
Clear height below platform	1750 mm
Internal width	2400 mm
Gap between platforms	960 mm

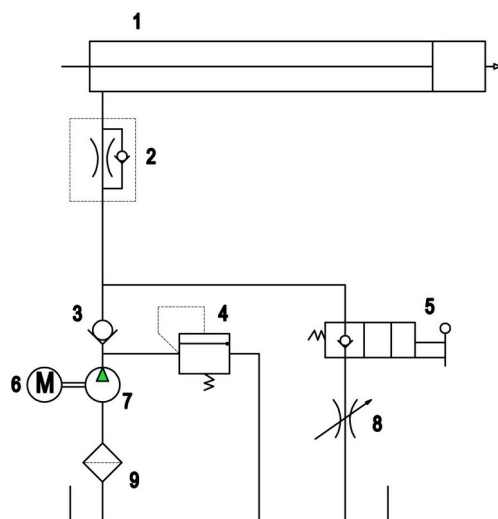
Dimensions from the Hammer Tools product listing. This table is not a foundation or drilling plan.

Appendix 3: Foundation layout

Original anchoring plan for the corresponding machine. Fixing dimensions are retained unchanged. Before drilling, check them against the delivered lift and the anchor manufacturer's requirements; shop overall dimensions are not drilling dimensions.



Appendix 4: Hydraulic circuit

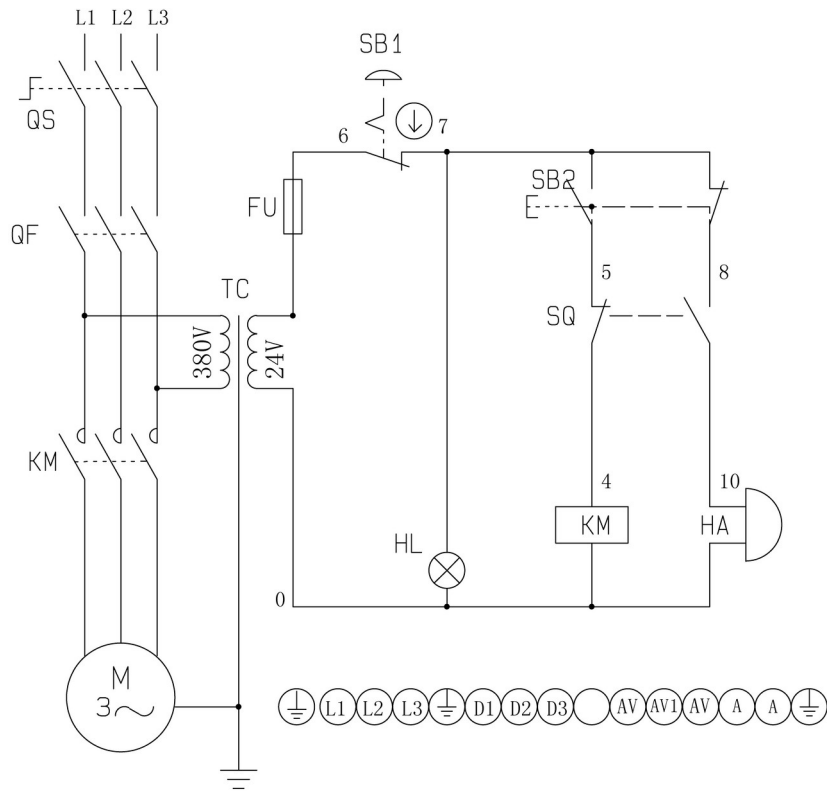


1. Cylinder; 2. Throttle valve; 3. Check valve; 4. Relief valve; 5. Manual lowering valve; 6. Motor; 7. Gear pump; 8. Flow-control valve; 9. Filter

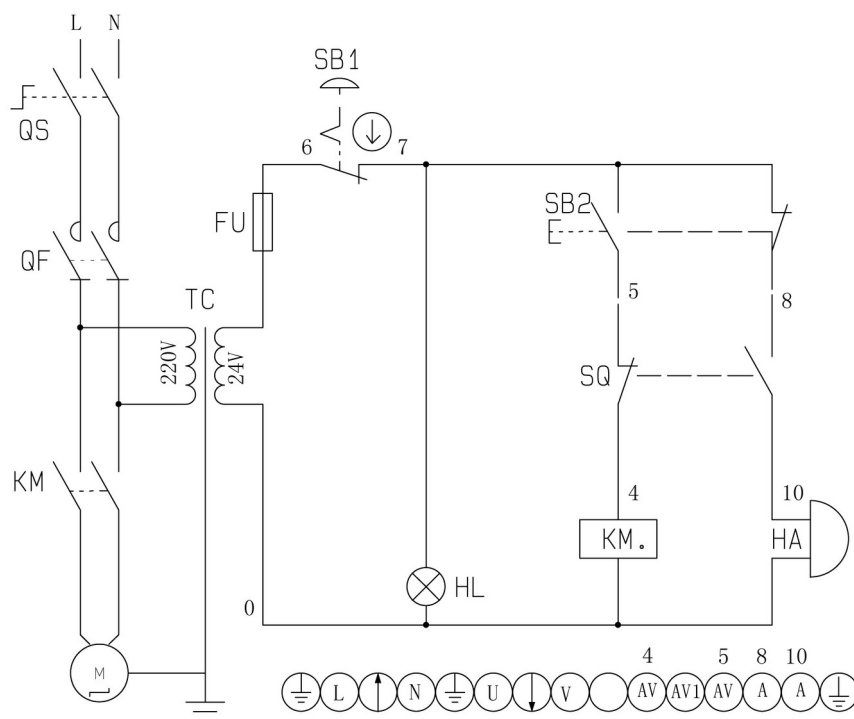
screen

Appendix 5: Electrical diagrams

380V



QS	Main switch	QF	Fuse	KM	AC contactor	TC	Transformer
FU	Fuse	SB1	Emergency stop	SB2	UP button	SQ	Limit switch
HL	Indicator light	HA	Buzzer				



QS	Main switch	QF	Fuse	KM	AC contactor	TC	Transformer
FU	Fuse	SB1	Emergency stop	SB2	UP button	SQ	Limit switch
HL	Indicator light	HA	Buzzer				