

FOUR POST TRIPLE STACKER CAR LIFT | 9,000 / 8,000 lb

QL3STACK



OWNER & INSTALLATION MANUAL

Read this manual before installation, operation or service.
Keep it available to every operator and service technician.

Safety & owner responsibilities

CAPACITY

Lower platform: 9,000 lb maximum. Upper platform: 8,000 lb maximum. Do not exceed either platform rating. The ground-level parking space is not a lifting platform.

TRAINING

Only trained adults may operate the lift. Read the controls, warning labels and instructions before use. Keep all people clear while a platform is moving.

LOCKS

Before parking or working beneath a raised platform, lower it onto all mechanical safety locks. Never rely on hydraulic pressure alone. Stop if any lock fails to engage or release.

VEHICLE CLEARANCE

Check vehicle weight, tire position, wheelbase, height and overhead clearance. Remove the vehicle below any platform that must be lowered. Never lower one platform into a vehicle on another level.

INSTALLATION

Have the lift professionally installed and anchored to an approved concrete slab. Electrical work must be completed by a qualified electrician. Do not install over slab defects, joints or hidden utilities without approval.

SERVICE

Disconnect and secure electrical and compressed-air supplies before service. Relieve hydraulic pressure only after the platforms are safely supported. Do not change the factory relief-valve setting or bypass locks.

RECEIVING

Inspect delivered components and document freight damage immediately. Retain delivery records, the model and serial number for service and warranty requests.

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Specifications

Lower platform capacity	9,000 lb
Upper platform capacity	8,000 lb
Overall width	118 in.
Overall length with ramps	257 in.
Overall length without ramps	213 in.
Overall height	168 in.
Drive-through clearance	100 in.
Drive-under clearance - lower	67 in.
Drive-under clearance - upper	71 in.
Drive-on runway length	213 in.
Drive-on width	86 in.
Individual runway width	19 in.
Distance between runways	47 in.
Gross weight	5,000 lb
Power supply	220 V / 60 Hz

Each raised platform has a separate load rating. Confirm available vehicle clearance at the actual locking position before use.

Site planning & clearances

Installed footprint

257 in. long with ramps x 118 in. wide x 168 in. tall. The listed length without ramps is 213 in. Allow additional room for drive-on access, controls, vehicle doors, service and safe circulation.

Vehicle fit

Drive-through clearance: 100 in. Drive-on width: 86 in. Runway length: 213 in. Individual runway width: 19 in. Distance between runways: 47 in. Position all four tires securely on the runways.

Vertical clearance

Lower drive-under clearance: 67 in. Upper drive-under clearance: 71 in. These figures describe available parking clearance, not lifting travel. Verify each vehicle and the selected lock position. Allow for the upper vehicle above the platform; the 168 in. lift height alone does not define the required ceiling height.

Layout and anchors

The installer must verify the actual column base locations and anchor pattern before drilling. Check the slab and hidden utilities. Do not use overall product dimensions as anchor-hole coordinates.

Access and handling

Use rated lifting and rigging equipment appropriate for the component being handled. Keep clear of suspended loads and stabilize columns and crossbeams throughout assembly.

Foundation, electrical & air supply

Concrete slab

Use sound, level concrete at least 6 in. thick with a minimum compressive strength of 3,000 psi. Have the installer verify that the slab and anchor system are suitable for the lift and the site. Do not anchor in cracked concrete or across joints. Surface flatness and diagonal layout variation must not exceed approximately 3/16 in. (5 mm).

Work area

Provide an installation work area at least 177.2 in. x 315 in. (approximately 14 ft 9 in. x 26 ft 3 in.), plus any space required by the vehicles, access route and installation equipment.

Anchors

Use the specified anchor system. Follow its drilling diameter, embedment, edge distance and tightening instructions. Confirm those requirements before installation; do not substitute a bolt solely because its nominal diameter appears similar.

Electrical supply

The listed supply is 220 V / 60 Hz. A qualified electrician must verify the motor nameplate, wiring diagram, phase, circuit protection, conductor size and grounding. Provide a suitable disconnect and overcurrent protection. Do not select U.S. circuit wiring from a foreign cable designation.

Compressed air

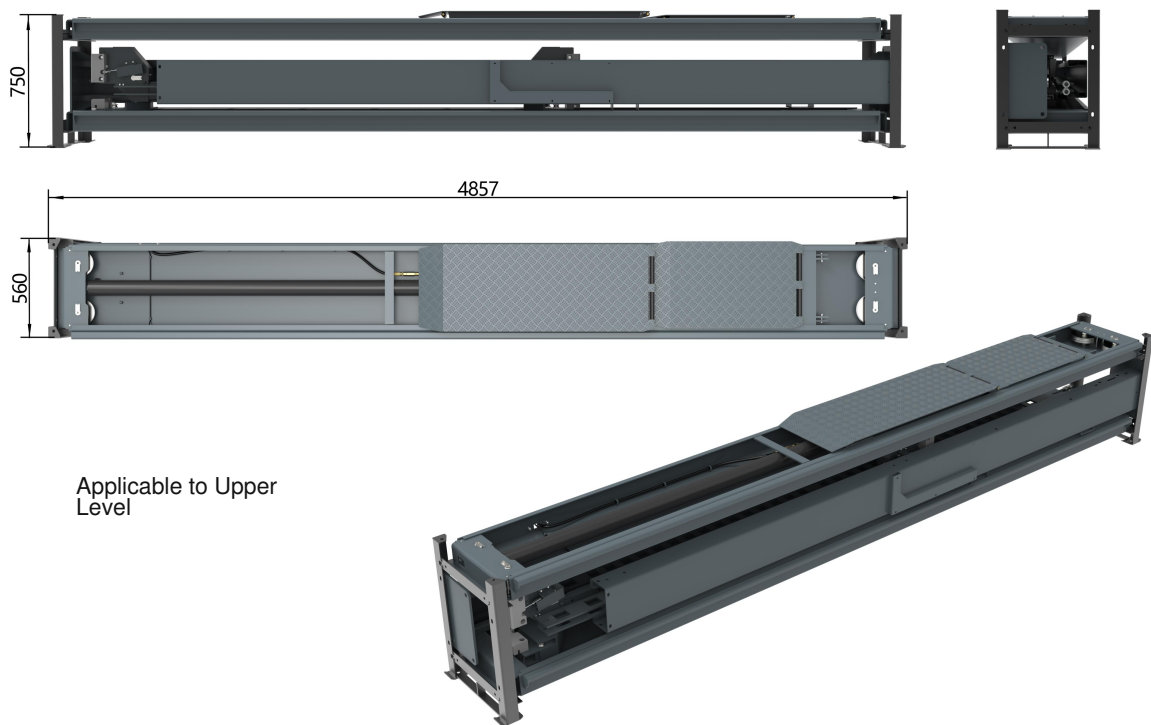
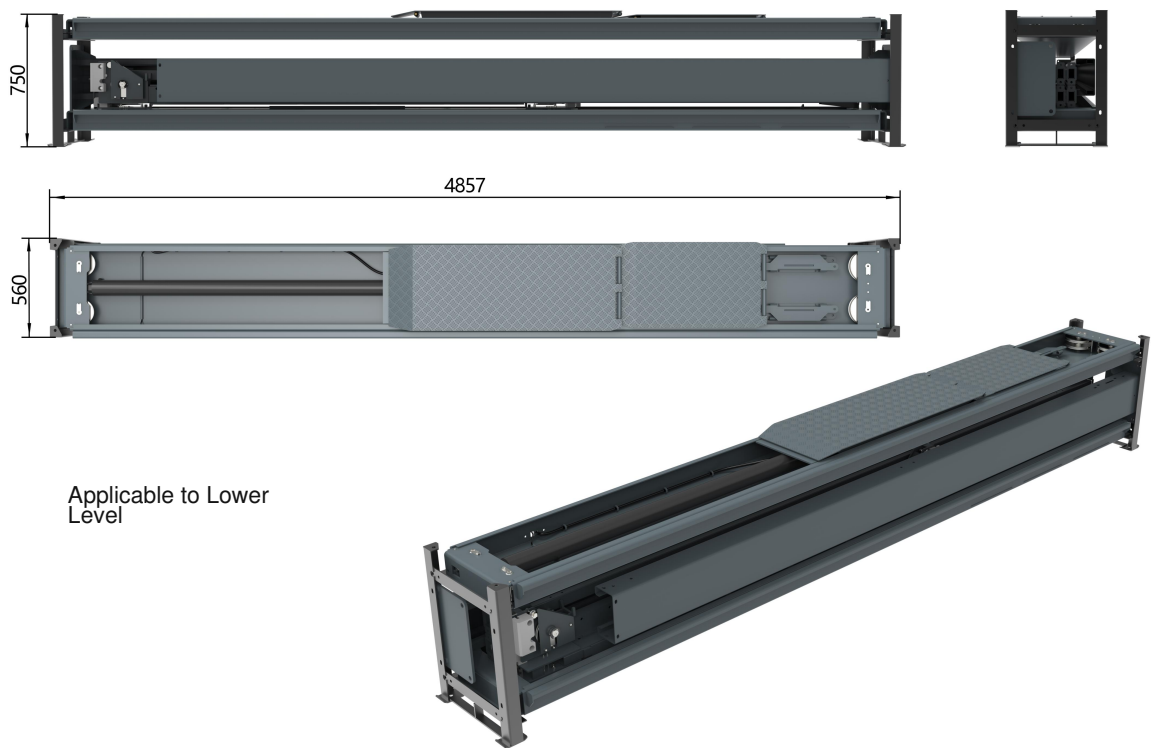
Connect a clean, regulated shop-air supply to the pneumatic lock-release system. Use the specified fittings and correctly sized air tubing. The pneumatic valve component rating is not the lift's required supply pressure; obtain the operating setting from Quick Lift USA before commissioning.

Hydraulic oil

Use hydraulic oil corresponding to ISO VG 32 or ISO VG 46, as specified for the installed power unit and operating conditions. Fill to the power unit's indicated level with the platforms lowered. Keep dirt and moisture out of the reservoir.

4. Shipping Parts List

Shipping Parts List (F)			
Serial-F	Name	Specification	Quantity
F-1	Main Column	4180-250-130	1
F-2	Secondary Column	4180-250-130	3
F-3	Safety Lock Plate Assembly	4224-101-10	4
F-4	Column Cross Beam	4468-60-40	4
F-5	Power Unit Mounting Bracket	175-175-5	1
F-6	Column Hydraulic Hose Protective Cover	595-245-30	1
F-7	Unlocking Valve Bracket	93.5-67-299.5	1
F-8	Hydraulic Hose Connection Bracket	119-129.5-147	1
F-9	Air Filter/Regulator Protective Bracket	200-110-30	1
F-10	Column Top Cover - Left	262-200-16	2
F-11	Column Top Cover - Right	262-200-16	2
F-12	Lower Level Main Platform Assembly	4768-484-120	1
F-13	Lower Level Secondary Platform Assembly	4768-484-120	1
F-14	Upper Level Main Platform Assembly	4768-484-120	1
F-15	Upper Level Secondary Platform Assembly	4768-484-120	1
F-16	Lower Level Cross Beam Assembly	2760-65-245	2
F-17	Upper Level Cross Beam Assembly	2760-65-315	2
F-18	Lower Level Drive-On Ramp Assembly	879-484-5	2
F-19	Upper Level Drive-On Ramp Assembly	1317-484-5	2
F-20	Ramp Connection Pin	Ø 16-350/340	4
F-21	Wheel Stop (Pre-Assembled with Tension Spring)	484-236-5	4
F-22	Hook Assembly	594-87.5-5	8
F-23	Wide Movable Runway Plate	1174-529-115	4
F-24	Wide Movable Runway Plate	1174-529-115	14
F-25	Narrow Movable Runway Plate	1016-529-115	4
F-26	Narrow Movable Runway Plate	1016-529-115	14
F-27	Power Unit		1
F-28	Spare Parts Package		1



Installation tools

Handling equipment

Use a forklift and lifting slings rated for the actual component weight and lift configuration. Have qualified personnel handle and stabilize the heavy assemblies. Do not assume a 2-ton forklift can unload a 5,000 lb shipment.

Layout and drilling

Tape measure, chalk line, level, hammer drill and the drill bits required by the specified anchors. Check the slab and anchor requirements before drilling.

Assembly tools

Metric sockets and combination wrenches, adjustable wrench, metric hex keys, screwdrivers, pliers, retaining-ring pliers, rubber mallet, hammer, utility knife and torque wrench.

Supports and service supplies

Suitable wood blocking or rated supports, grease gun, approved lubricant, clean hydraulic oil, air-line cutting tools, cable ties and suitable electrical installation tools.

Hardware identification

Keep the factory part numbers and metric fastener sizes. Inch equivalents for site clearances do not authorize substitution of metric bolts, fittings or replacement components.

Installation - Step 1: site & receiving

Verify the site

Confirm the current installed footprint and vehicle clearances on pages 4-6. Have the installer verify the slab, actual column bases, anchor pattern, approach space, electrical supply and overhead obstructions before marking or drilling.

Mark the layout

Use a tape measure, chalk line and level. Check diagonal alignment and locate the columns from the actual base layout. Do not use the overall width and length as anchor-hole coordinates.

Inspect the shipment

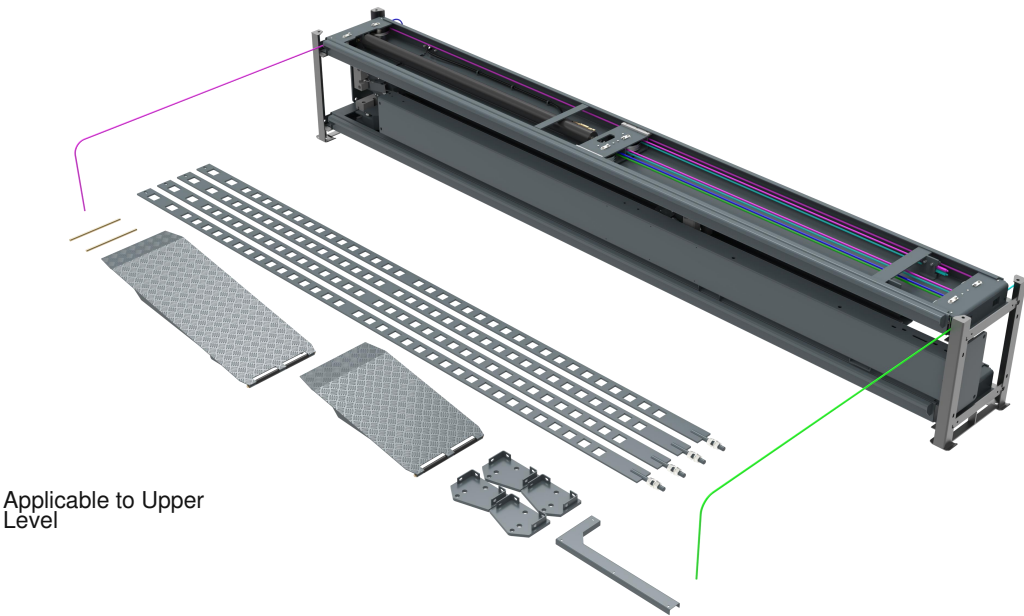
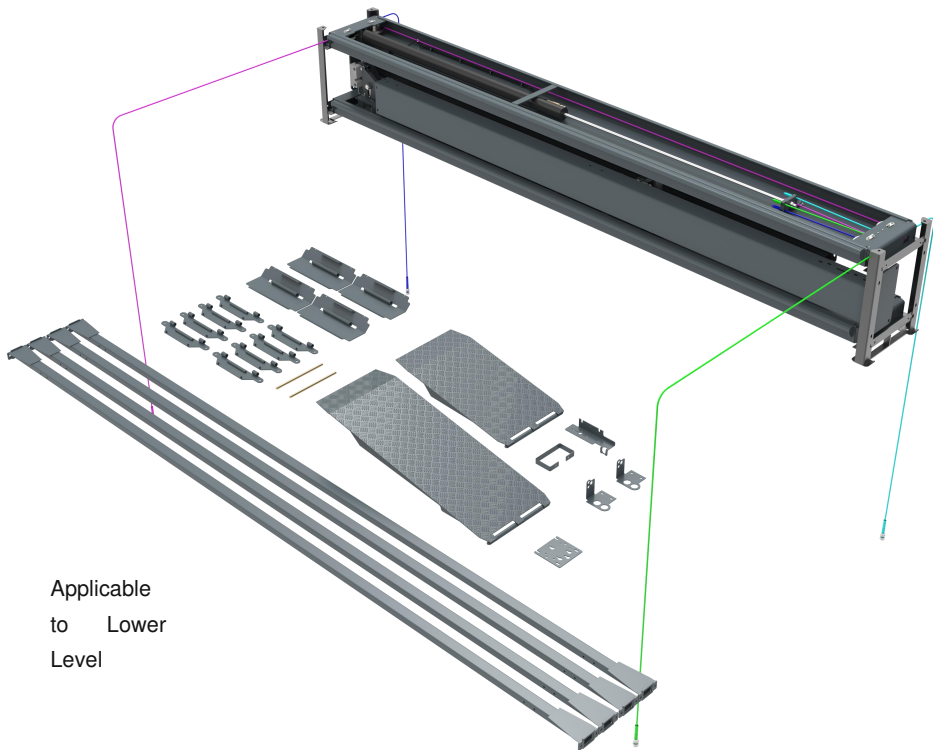
Move the packaged assemblies into an open work area with properly rated handling equipment. Remove the wrapping and packing materials carefully. Inspect the lift for freight damage and compare the contents with the inventory.

Prepare assemblies

Remove loose accessories and arrange them safely. Check the hydraulic connections and cable locations before separating the shipping frame. Keep the platforms and crossbeams supported on blocks with room for handling equipment.

Check connections

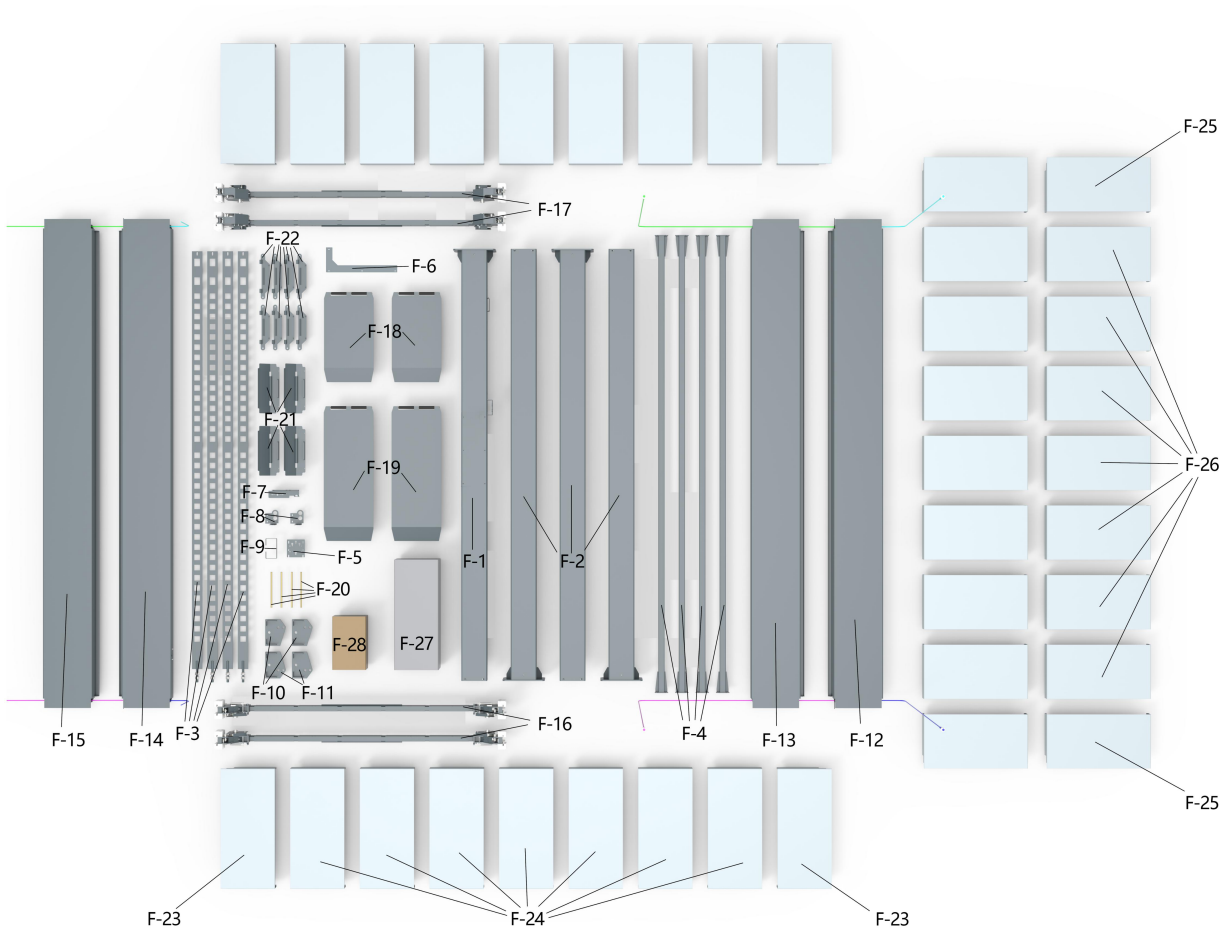
Verify cable routing, pulley seating and the designated hydraulic connection points. Complete the inventory, including the hardware package, before continuing the assembly sequence.



5. After confirming that the hydraulic lines and lifting cables are properly installed, use a wrench (from the tool kit) to remove the bolts securing the shipping frame. Use a forklift to lift the main platform assembly and place wooden blocks on the ground as supports. Lower the platform onto the wooden blocks. Using flat lifting slings, carefully turn the main platform assembly over with the forklift. Remove the remaining components. The cross beams and platforms must be placed on wooden blocks, ensuring sufficient space is reserved for forklift access. Arrange all components neatly in an open area and begin checking them against the shipping parts list. Verify all items contained in the spare parts package.

Shipping Parts List (F)			
Serial-F	Name	Specification	Quantity
F-1	Main Column	4180-250-130	1
F-2	Secondary Column	4180-250-130	3
F-3	Safety Lock Plate Assembly	4224-101-10	4
F-4	Column Cross Beam	4468-60-40	4
F-5	Power Unit Mounting Bracket	175-175-5	1
F-6	Column Hydraulic Hose Protective Cover	595-245-30	1
F-7	Unlocking Valve Bracket	93.5-67-299.5	1
F-8	Hydraulic Hose Connection Bracket	119-129.5-147	1
F-9	Air Filter/Regulator Protective Bracket	200-110-30	1
F-10	Column Top Cover - Left	262-200-16	2
F-11	Column Top Cover - Right	262-200-16	2
F-12	Lower Level Main Platform Assembly	4768-484-120	1
F-13	Lower Level Secondary Platform Assembly	4768-484-120	1
F-14	Upper Level Main Platform Assembly	4768-484-120	1
F-15	Upper Level Secondary Platform Assembly	4768-484-120	1
F-16	Lower Level Cross Beam Assembly	2760-65-245	2
F-17	Upper Level Cross Beam Assembly	2760-65-315	2
F-18	Lower Level Drive-On Ramp Assembly	879-484-5	2
F-19	Upper Level Drive-On Ramp Assembly	1317-484-5	2
F-20	Ramp Connection Pin	Ø 16-350/340	4
F-21	Wheel Stop (Pre-Assembled with Tension Spring)	484-236-5	4

F-22	Hook Assembly	594-87.5-5	8
F-23	Wide Movable Runway Plate	1174-529-115	4
F-24	Wide Movable Runway Plate	1174-529-115	14
F-25	Narrow Movable Runway Plate	1016-529-115	4
F-26	Narrow Movable Runway Plate	1016-529-115	14
F-27	Power Unit		1
F-28	Spare Parts Package		1



Spare Parts Package				
Serial I-C	Name	Specification	Quantity	Notes(Installation location)
C-1	M12- 30 Hex Head Bolt	GB/T5781C(4.8)	36	Column Cover Plate / Safety Lock Plate / Column Cross Beam
C-2	Ø 12 Flat Washer	GB 95-85-C	68	Column Cover Plate / Safety Lock Plate / Column Cross Beam
C-3	Ø 12 Spring Washer	GB 93-87	36	Column Cover Plate / Safety Lock Plate / Column Cross Beam
C-4	M12 Nut	GB/T41-86(4.8)	32	Column Cover Plate
C-5	M8- 35 Hex Head Bolt	GB/T5781C(4.8)	4	Power Unit
C-6	Ø 8 Flat Washer	GB 95-85-C	8	Power Unit
C-7	Ø 8 Spring Washer	GB 93-87	4	Power Unit
C-8	M8 Nut	GB/T41-86(4.8)	4	Power Unit
C-9	M8- 15 Socket Head Cap Screw (Button Head)	GB/T70.2-2000	2	Power Unit Mounting Bracket
C-10	Ø 8 Flat Washer	GB 95-85-C	2	Power Unit Mounting Bracket
C-11	Ø 8 Spring Washer	GB 93-87	2	Power Unit Mounting Bracket
C-12	Rubber Vibration Pad	160-47-5	2	Power Unit - Steel Type
C-13	Concrete Anchor Bolt (Expansion Bolt)	M19-160mm	16 sets	Column Base Plate
C-14	M4- 35 Socket Head Cap Screw	GB 818-85 H	2	NPT1/4 Hydraulic Directional Valve
C-15	Ø 4 Flat Washer	GB 95-85-C	4	NPT1/4 Hydraulic Directional Valve
C-16	Ø 4 Spring Washer	GB 93-87	2	NPT1/4 Hydraulic Directional Valve
C-17	M4 Nut	GB/T41-86(4.8)	2	NPT1/4 Hydraulic Directional Valve
C-18	Hydraulic Hose	Straight x 90° Elbow Hose (L = 185 mm) - SAE 9/16	1	Hydraulic Line from Power Unit to Directional Valve
C-19	Hydraulic Hose	Straight x 90° Elbow Hose (L = 1345 mm) - SAE 9/16	2	Directional Valve to 130 mm Straight Adapter Fitting
C-20	Hydraulic Hose	Straight x 90° Elbow Hose (L = 1255 mm) - SAE 9/16	2	Directional Valve to 80 mm Straight Adapter Fitting
C-21	Lower Level Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=2530mm	1	Wrapped Hydraulic Hose for Lower Platform (4090 mm)
C-22	Upper Level Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=2420mm	1	Wrapped Hydraulic Hose for Upper Platform (4000 mm)
C-23	Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=300mm	1	Wrapped Hydraulic Hose from Power Unit to Directional Valve (185 mm)
C-24	Manual Hydraulic Three-Way Ball Valve		1	

C-25	Fitting for Manual Hydraulic Three-Way Ball Valve	SAE 9/16 Flat Seat - 9/16 Male Cone	1	Power Unit Fitting
C-26	90° Elbow Fitting for Manual Hydraulic Three-Way Ball Valve	9/16 Male Cone--NPT1/4	2	Manual Hydraulic Three-Way Ball Valve with Hose Connection (1345 / 1255 mm)
C-27	Hydraulic Hose Adapter (Double Nut, Double Washer)	Double-Ended 9/16 Male Cone Fully Threaded Stud - 80 mm	1	Fitting for Lower Platform 4090 mm Hose
C-28	Hydraulic Hose Adapter (Double Nut, Double Washer)	Double-Ended 9/16 Male Cone Fully Threaded Stud - 130 mm	1	Fitting for Upper Platform 4000 mm Hose
C-29	Power Unit Sealing Gasket	Ø 14 Copper Washer	2	Power Unit
C-30	M6- 45 Socket Head Cap Screw	GB 818-85 H	4	Hydraulic Hose Protective Cover
C-31	Ø 6 Flat Washer	GB 95-85-C	4	Hydraulic Hose Protective Cover
C-32	Ø 6 Spring Washer	GB 93-87	4	Hydraulic Hose Protective Cover
C-33	M8- 75 Socket Head Cap Screw	GB/T5781C(4.8)	2	Corrugated Hose Bracket
C-34	Ø 8 Flat Washer	GB 95-85-C	4	Corrugated Hose Bracket
C-35	Ø 8 Spring Washer	GB 93-87	2	Corrugated Hose Bracket
C-36	M8 Nut	GB/T41-86(4.8)	2	Corrugated Hose Bracket
C-37	Air Filter/Regulator	AL-3000-03	1	Unlock
C-38	Air Filter Fitting (3/8") - For Ø 8 Air Hose	PL8-03(90° Elbow Fitting)	1	Air Inlet - Air Filter/Regulator
C-39	Air Filter Fitting (3/8") - For Ø 6 Air Hose	PL6-03(90° Elbow Fitting)	1	Air Outlet - Air Filter/Regulator
C-40	M6- 15 Phillips Pan Head Screw	GB 818-85 H	2	AL-3000-03 Air Filter/Regulator
C-41	Ø 6 Flat Washer	GB 95-85-C	2	AL-3000-03 Air Filter/Regulator
C-42	Ø 6 Spring Washer	GB 93-87	2	AL-3000-03 Air Filter/Regulator
C-43	Ø 6 Air Hose	PU6-4---L=1500mm	1	Air Line from Oil-Water Separator to Unlocking Valve
C-44	Ø 6 Air Hose	PU6-4---L=5500mm	2	Unlocking Valve to Upper and Lower Platforms
C-45	3-Position 5-Way Spring Return Pneumatic Valve	4H230E-08(0.1--0.8mpa)	1	Unlock
C-46	90° Elbow Air Fitting for 3-Position 5-Way Pneumatic Valve (For Ø6 Air Hose)	PL6-02	3	4H230E-08(0.1--0.8mpa) 3-Position 5-Way Spring Return Pneumatic Valve
C-47	3-position 5-way self-resetting exhaust valve exhaust muffler	SLM-01	2	4H230E-08(0.1--0.8mpa) 3-Position 5-Way Spring Return Pneumatic Valve
C-48	Grease Fitting (Grease Fitting)	M10--1	18	Lifting Cable Pulley Shaft Lubrication
C-49	M8- 25 Hex Head Bolt	GB/T5781C(4.8)	4	Platform Fireproof Cloth Bracket
C-50	Ø 8 Flat Washer	GB 95-85-C	8	Platform Fireproof Cloth Bracket
C-51	Ø 8 Spring Washer	GB 93-87	4	Platform Fireproof Cloth Bracket
C-52	M8 Nut	GB/T41-86(4.8)	4	Platform Fireproof Cloth Bracket

C-53	M12- 80 Hex Head Bolt (Partially Threaded)	GB/T5781C(4.8)	16	Platform Cross Beam Connection
C-54	Ø 12 Flat Washer	GB 95-85-C	32	Platform Cross Beam Connection
C-55	Ø 12 Spring Washer	GB 93-87	16	Platform Cross Beam Connection
C-56	M12 Nut	GB/T41-86(4.8)	16	Platform Cross Beam Connection
C-57	Brake Block		4	Platform
C-58	Slotted Round Flat Washer		20	Column
C-59	Cable Tie		10	Air Hose and Hydraulic Hose

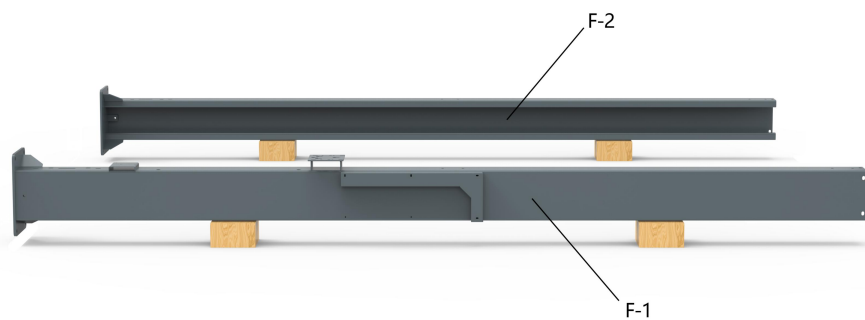


Step 2: Main Column Assembly (F-1) and Secondary Column**Assembly (F-2)**

Lay down the main column assembly (F-1) and secondary column assembly (F-2)

horizontally. Use wooden support blocks to elevate them off the ground.

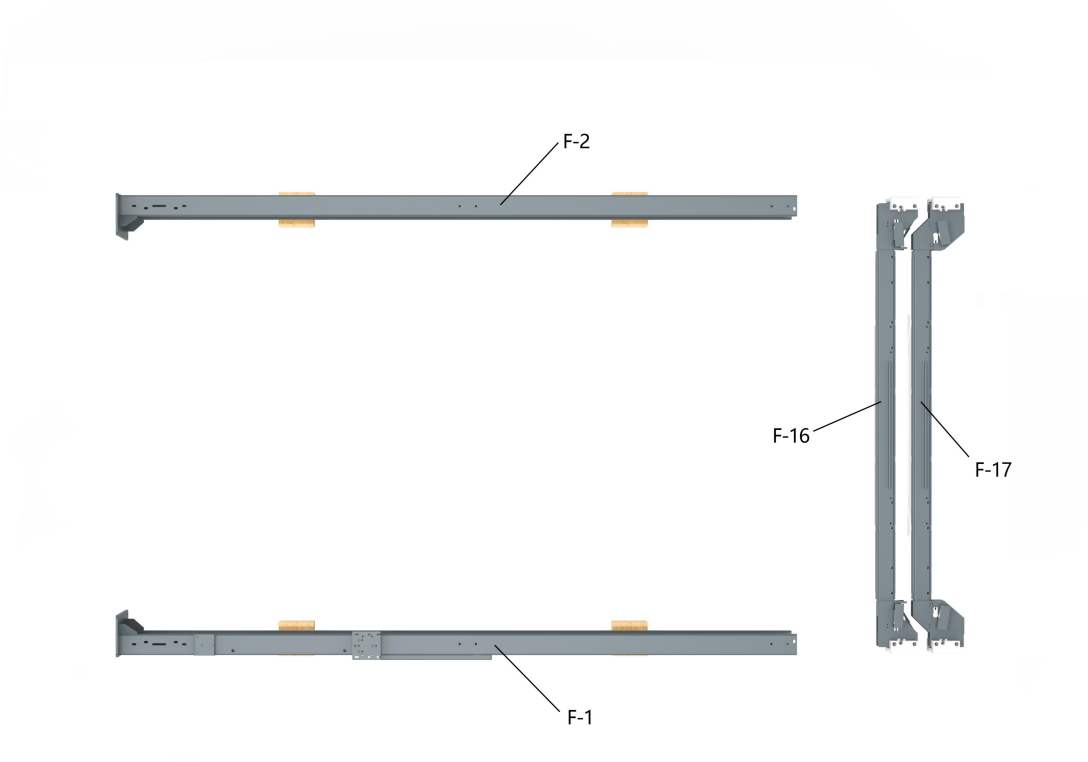
Position the assemblies according to the layout shown in the drawing.



Step 3: Positioning the Cross Beam Assemblies

Align the inner sides of the column assemblies in pairs, ensuring they face inward and are properly aligned.

Using a forklift, position the **Lower Level Cross Beam Assembly (F-16)** and the **Upper Level Cross Beam Assembly (F-17)** according to the layout shown in the drawing, and prepare for installation.



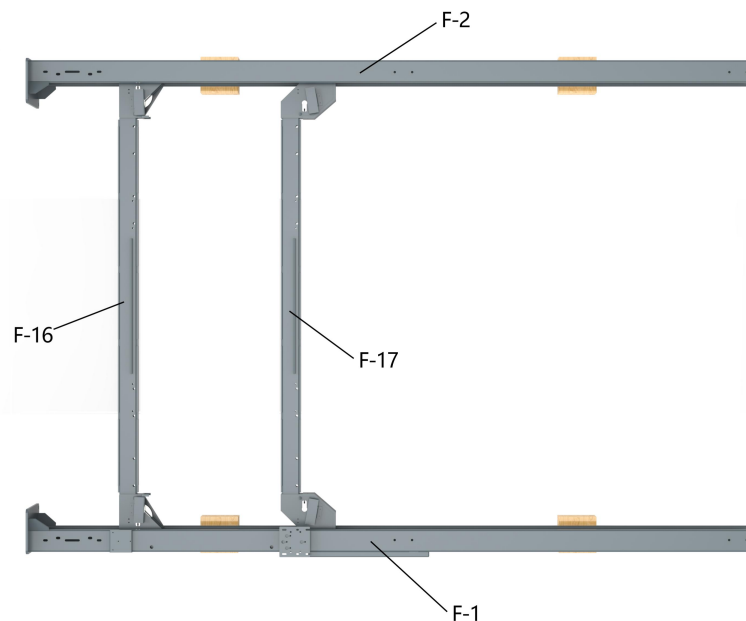
Step 4: Installing the Cross Beam Assemblies

First, position the **Lower Level Cross Beam Assembly (F-16)** into the inner slots of the columns.

During placement, maintain a certain clearance between the cross beam assembly and the column base plates.

Then position the **Upper Level Cross Beam Assembly (F-17)** into place.

During installation, ensure that a proper clearance is maintained between the upper cross beam assembly and the lower cross beam assembly.



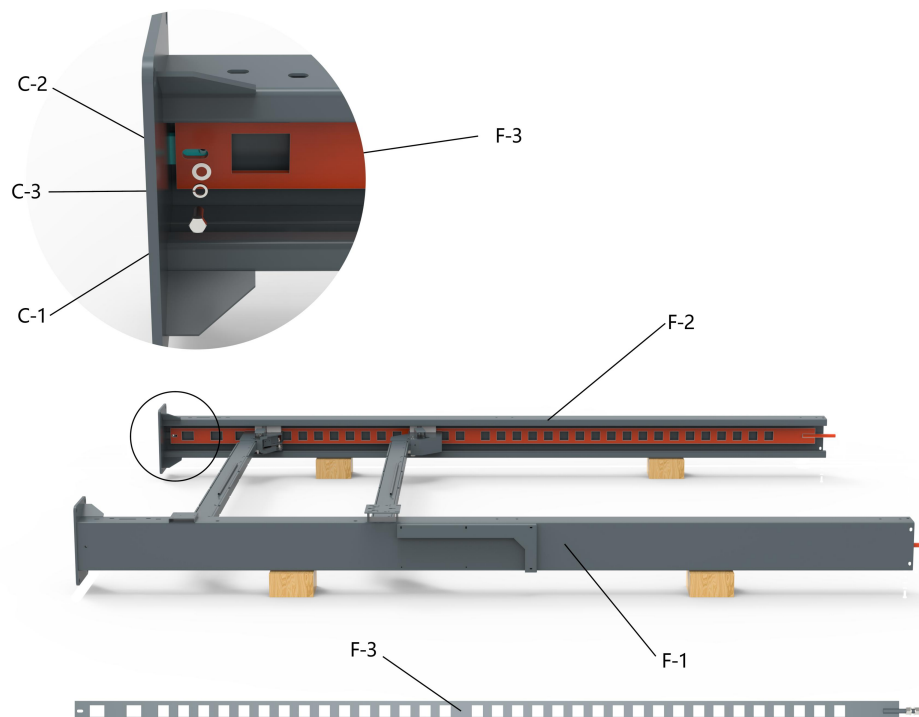
Step 5: Install the Safety Lock Plate Assembly

Install the **Safety Lock Plate Assembly (F-3)**.

Secure it using:

- M12 x 30 Hex Head Bolts (C-1)
- Ø12 Flat Washers (C-2)
- Ø12 Spring Washers (C-3)

Tighten the fasteners using the open-end wrench and adjustable wrench provided in the tool kit.



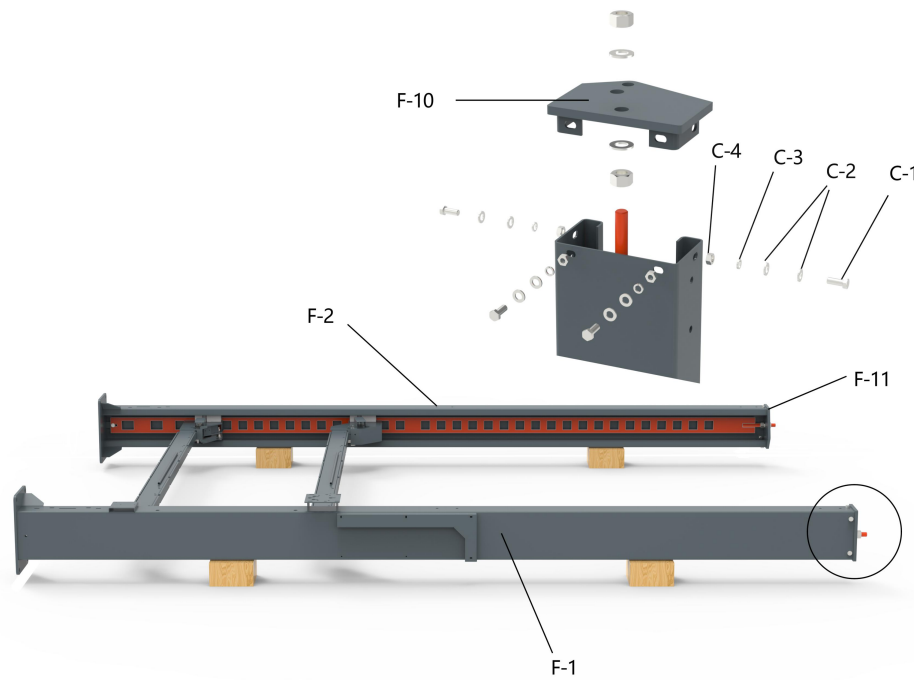
Step 6: Install the Column Top Covers

Install the **Column Top Covers (F-10, F-11)**.

Secure them using:

- **M12 x 30 Hex Head Bolts (C-1)**
- **Ø12 Flat Washers (C-2)**
- **Ø12 Spring Washers (C-3)**
- **M12 Nuts (C-4)**

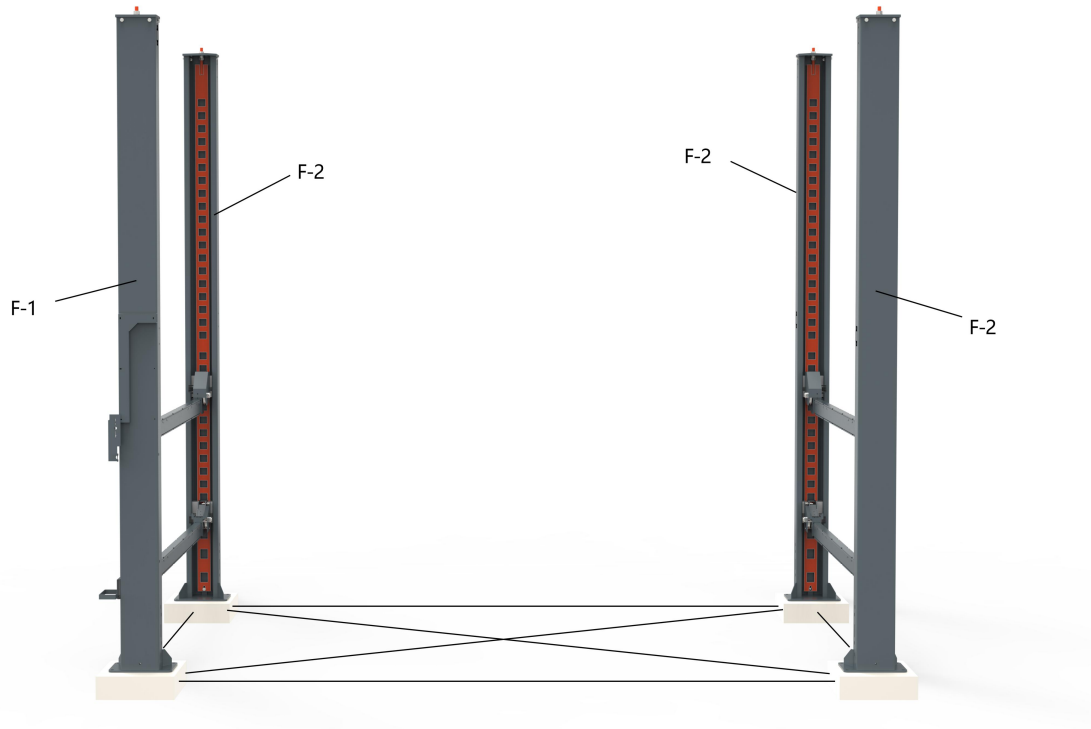
Tighten the fasteners using the open-end wrench and adjustable wrench provided in the tool kit.



Step 7: Erect the Column Assemblies

According to the foundation layout marked on the ground, raise the column assemblies to the upright position.

Use a forklift to carefully lift and position the columns.



Step 8: Install the Lower Level Main Platform Assembly

Use a forklift to lift the **Lower Level Main Platform Assembly (F-12)** and position it above the lower level cross beams. Install the **Hook Assembly (F-22)**.

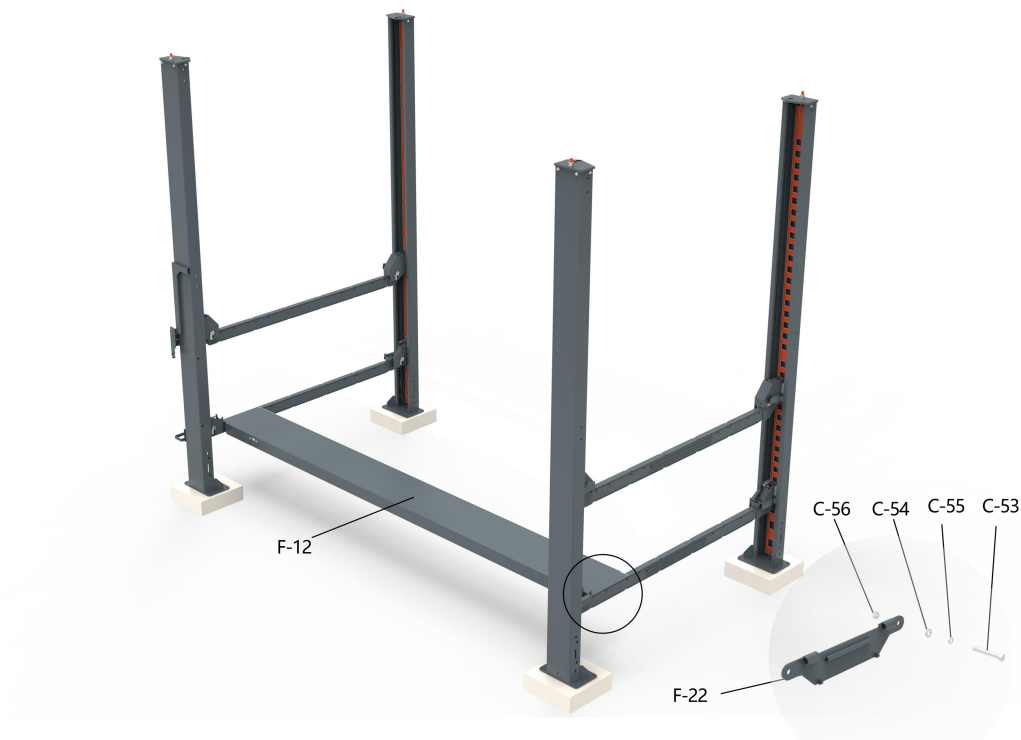
Secure it using:

- M12 x 80 Hex Head Bolts (C-53)
- Ø12 Flat Washers (C-54)

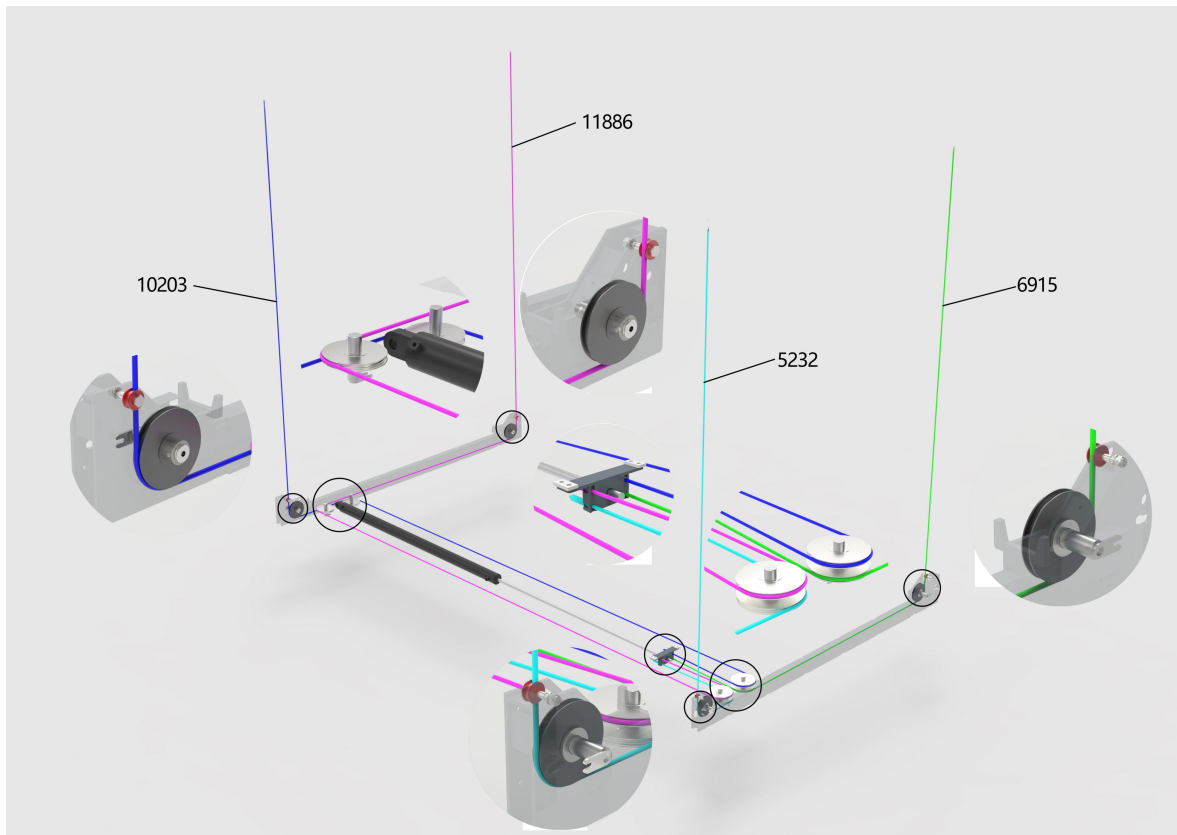
- Ø12 Spring Washers (C-55)

- M12 Nuts (C-56)

Tighten all fasteners using the open-end wrench and adjustable wrench provided in the tool kit.



Lower-platform cable routing. Follow the cable paths shown below; check that each cable is seated in its pulley grooves.



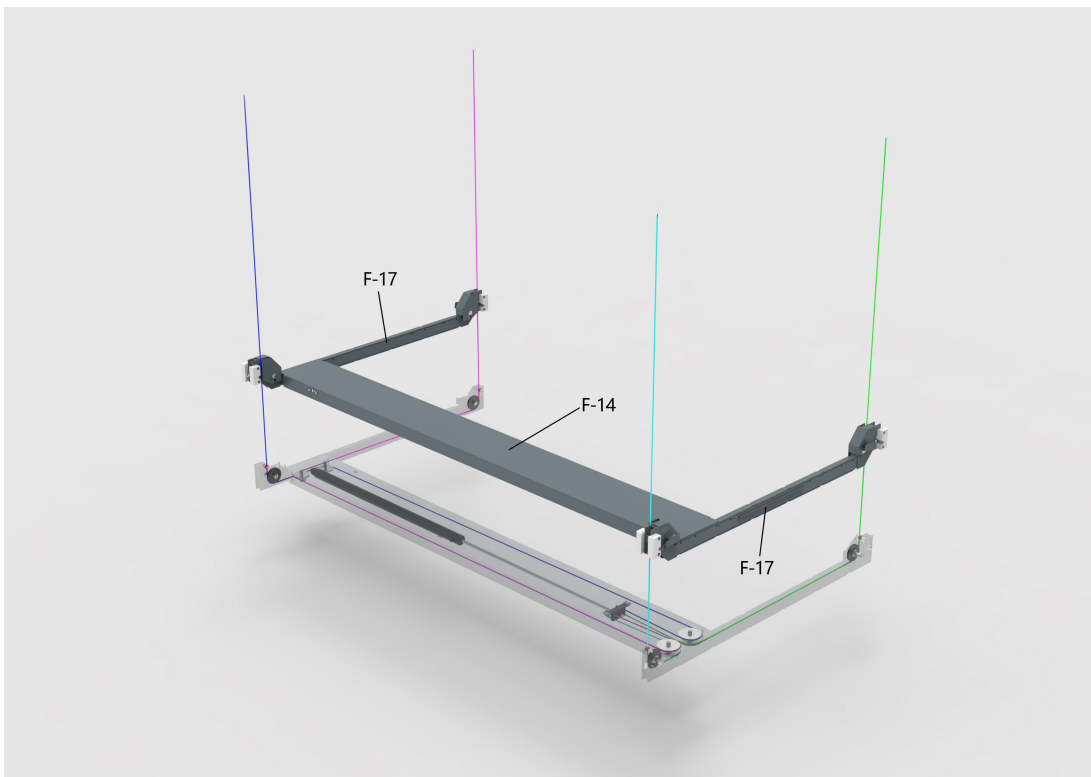
Step 9: Install the Upper Level Main Platform Assembly

Use a forklift to lift the **Upper Level Main Platform Assembly (F-14)** and position it above the upper level cross beams. Install the **Hook Assembly**.

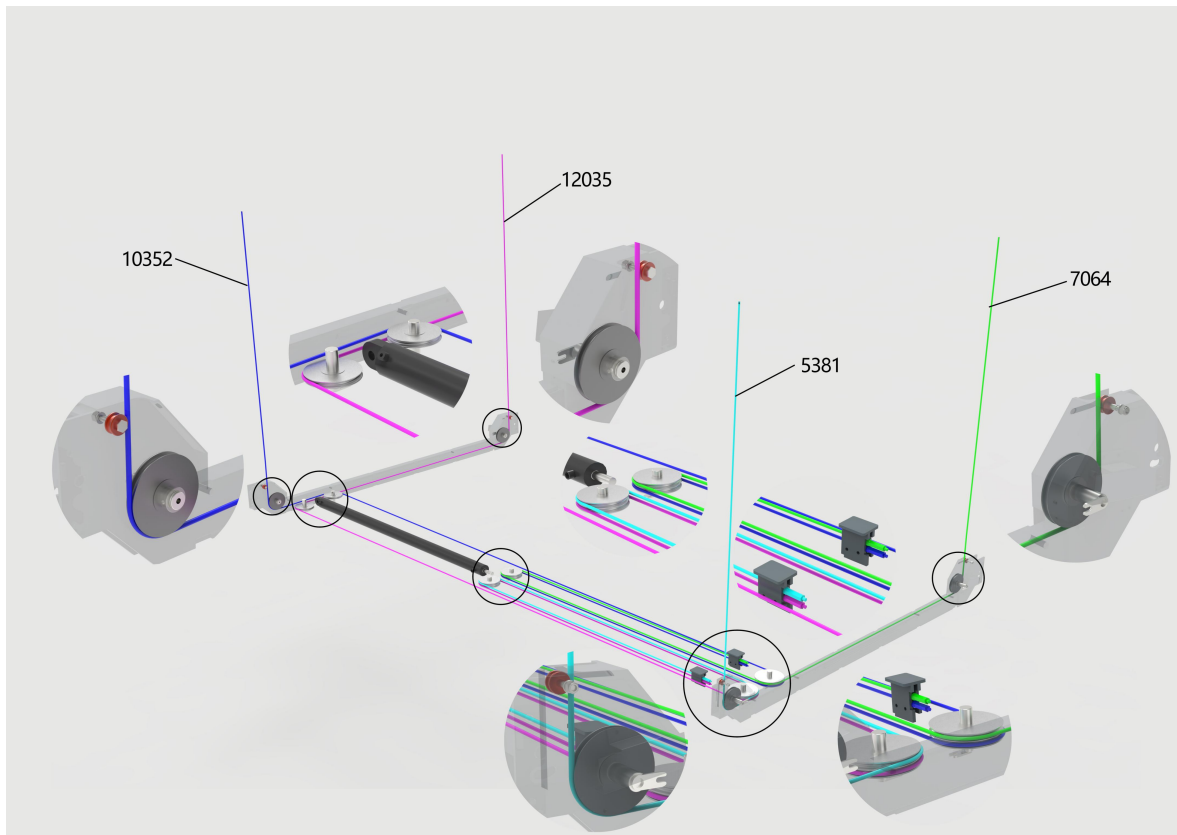
Secure it using:

- M12 x 80 Hex Head Bolts (C-53)
- Ø12 Flat Washers (C-54)
- Ø12 Spring Washers (C-55)
- M12 Nuts (C-56)

Tighten all fasteners using the open-end wrench from the tool kit while the forklift provides support.



Upper-platform cable routing. Follow the cable paths shown below; check that each cable is seated in its pulley grooves.



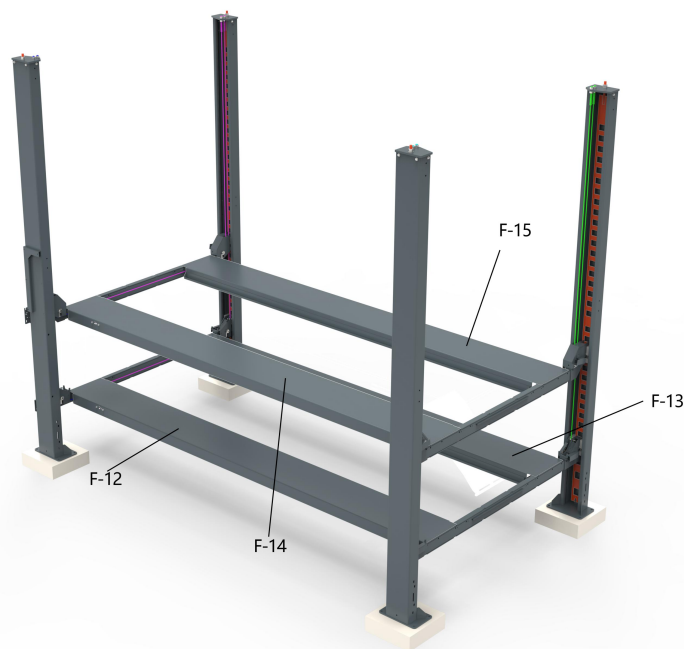
Step 10: Install the Secondary Platform Assemblies

Use a forklift to lift the **Lower Level Secondary Platform Assembly (F-13)** and the **Upper Level Secondary Platform Assembly (F-15)**, and position them above the corresponding lower and upper cross beams. Install the **Hook Assemblies**.

Secure them using:

- M12 x 80 Hex Head Bolts (C-53)
- Ø12 Flat Washers (C-54)
- Ø12 Spring Washers (C-55)
- M12 Nuts (C-56)

Keep the assembly supported by the forklift while tightening the fasteners with the correct wrenches.



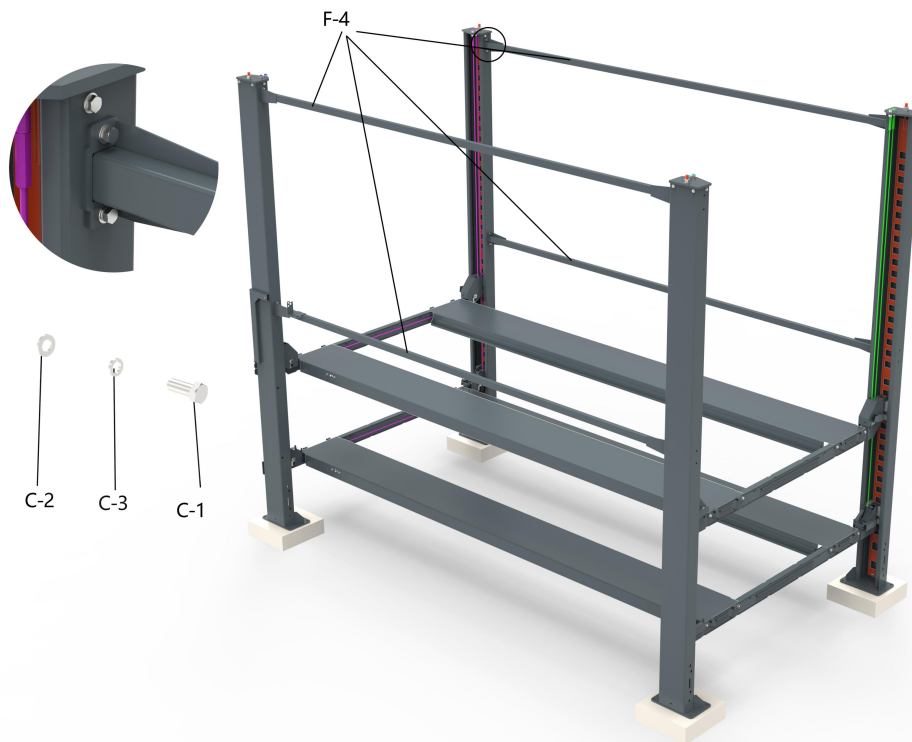
Step 11: Install the Column Cross Beam Assembly

Install the **Column Cross Beam Assembly (F-4)**.

Secure it using:

- M12 x 30 Hex Head Bolts (C-1)
- Ø12 Flat Washers (C-2)
- Ø12 Spring Washers (C-3)

Tighten all fasteners securely.



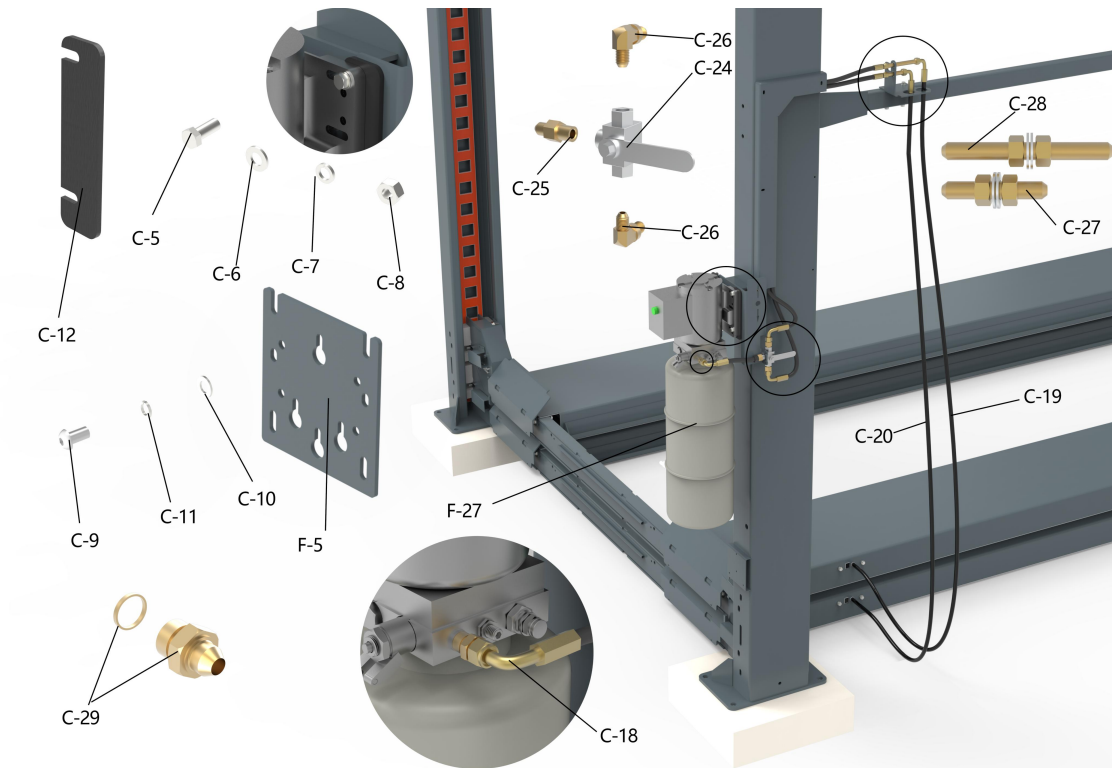
Step 12: Install the Power Unit on the Main Column (F-27), and**Install the Pneumatic and Hydraulic Components****1. Power Unit and Hydraulic System Installation**

Install the **Power Unit (F-27)** onto the main column.

Components Required:

- Power Unit Mounting Bracket (F-5)
- M8 x 15 Button Head Socket Cap Screws (C-9)
- Ø8 Flat Washers (C-10)
- Ø8 Spring Washers (C-11)
- Power Unit (F-27)
- M8 x 35 Hex Head Bolts (C-5)
- Ø8 Flat Washers (C-6)
- Ø8 Spring Washers (C-7)
- M8 Nuts (C-8)
- Rubber Vibration Pads (C-12)
- Hydraulic Hose Fittings with Copper Washers (C-29)
- Manual Hydraulic Three-Way Ball Valve (C-24)
- Fitting for Manual Hydraulic Three-Way Ball Valve (C-25)
- 90° Elbow Fitting for Manual Hydraulic Three-Way Ball Valve (C-26)
- Lower Level Hydraulic Hose Adapter (C-27)
- Upper Level Hydraulic Hose Adapter (C-28)
- Hydraulic Hose (C-18)
- Hydraulic Hose (C-19)
- Hydraulic Hose (C-20)

Tighten all fasteners using the open-end wrench and adjustable wrench provided in the tool kit.



2. Pneumatic Components Installation on the Column

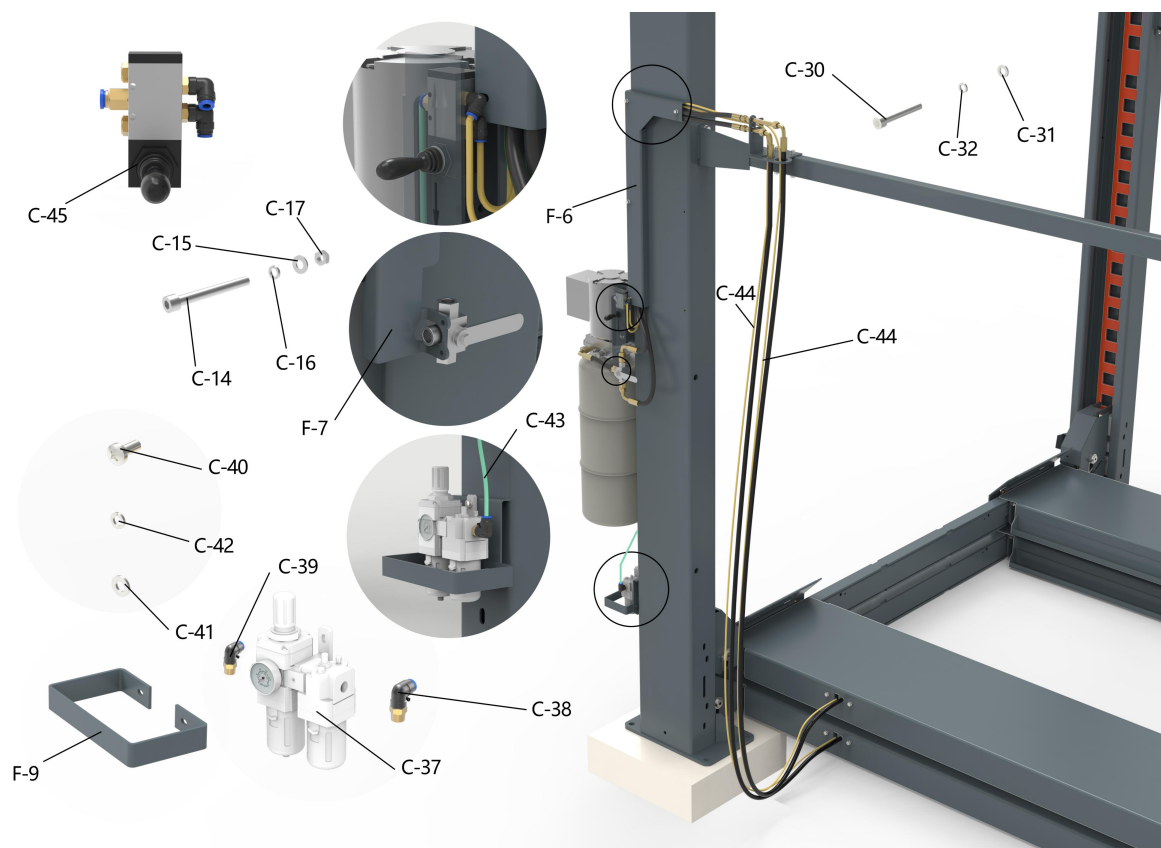
Install the pneumatic components on the column.

Components Required:

- M6 x 15 Phillips Pan Head Screws (C-40)
- Ø6 Flat Washers (C-41)
- Ø6 Spring Washers (C-42)
- Air Filter Regulator / Air Filter/Regulator (C-37)
- 8 mm Air Inlet Fitting (C-38)
- 6 mm Air Outlet Fitting (C-39)
- Air Hose (C-43)
- Air Hose (C-44)
- Manual Lever Valve Assembly (C-45)
- Manual Valve Mounting Bracket (F-7)
- M4 x 35 Socket Head Cap Screws (C-14)
- Ø4 Flat Washers (C-15)
- Ø4 Spring Washers (C-16)
- M4 Nuts (C-17)
- Column Hydraulic Hose Protective Cover (F-6)
- M6 x 45 Socket Head Cap Screws (C-30)
- Ø6 Flat Washers (C-31)

- Ø6 Spring Washers (C-32)
- Air Filter Regulator Protective Bracket (F-9)

Use the adjustable wrench and Phillips screwdriver provided in the tool kit to complete the installation.



Step 13: Electrical Connection, Hydraulic Oil Filling, and Initial

Test Run

Connect the power supply according to the specifications indicated on the motor nameplate.

Fill the system with hydraulic oil. Recommended hydraulic oil grade: **N32 or N46**. Jog the lift upward briefly and observe whether the lifting cables are positioned correctly.

Raise the **lower level platform** to approximately **1 meter**, then stop. Raise the **upper level platform** to approximately **1.5 meters**, then stop.

Operate the lowering handle on the power unit to bring the lift into the **locked position**.

Once the lift is securely locked, begin connecting the pneumatic lines.

Use the screwdriver, utility knife, and electrical tape provided in the tool kit during installation.



Step 14: Connect Air Supply and Adjust Lifting Cable Tension

Connect the compressed air supply. Press the power unit button to raise the platform until the safety hook disengages from the safety lock hole, then release the button.

With one hand, press and hold the **unlock valve** (←direction) to release the safety hook.

With the other hand, operate the lowering handle on the power unit to lower the platform to the lowest position. Adjust the tension of the lifting cables to ensure that all ropes have equal tension.

Use the open-end wrench and adjustable wrench provided in the tool kit to complete the adjustment.

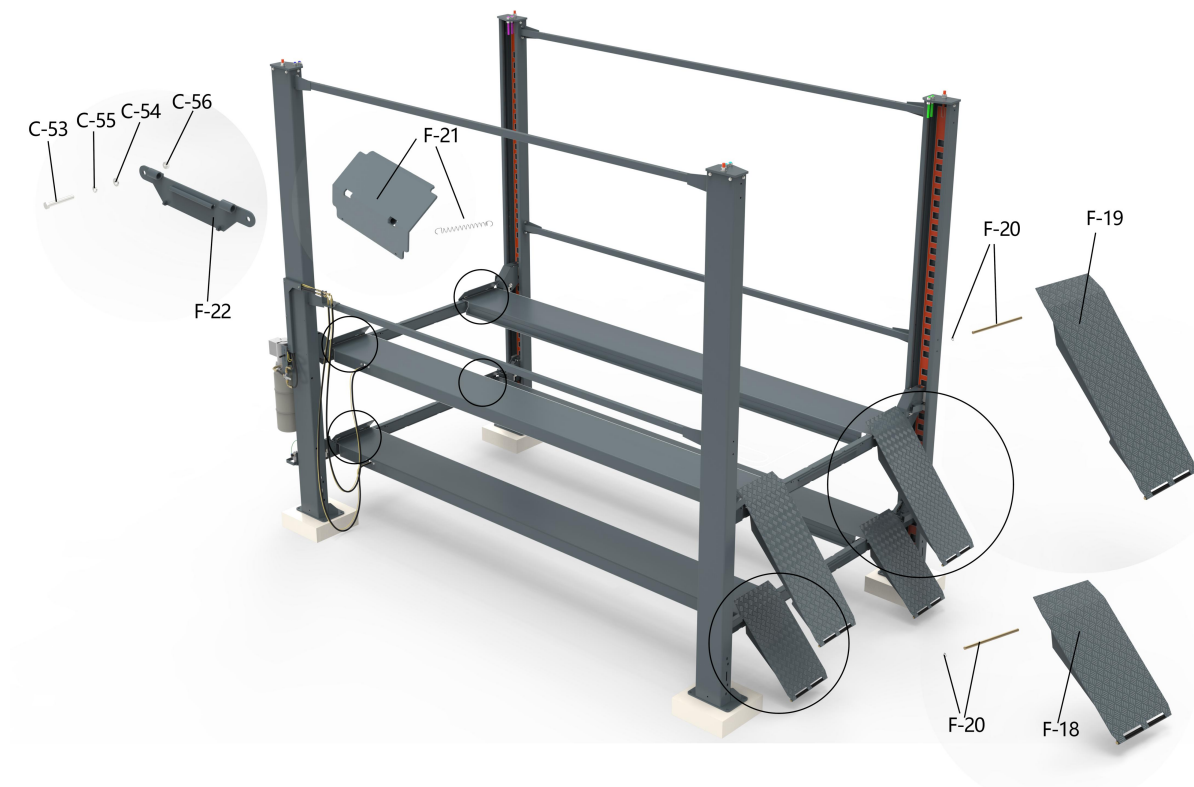


Step 15: Install the Drive-On Ramp and Wheel Stop Assemblies

Install the following components:

- Lower Level Drive-On Ramp Assembly (F-18)
- Upper Level Drive-On Ramp Assembly (F-19)
- Ramp Connection Pin Assembly (F-20)
- Wheel Stop Assembly (F-21)

Use a rubber hammer to assist with installation where necessary.

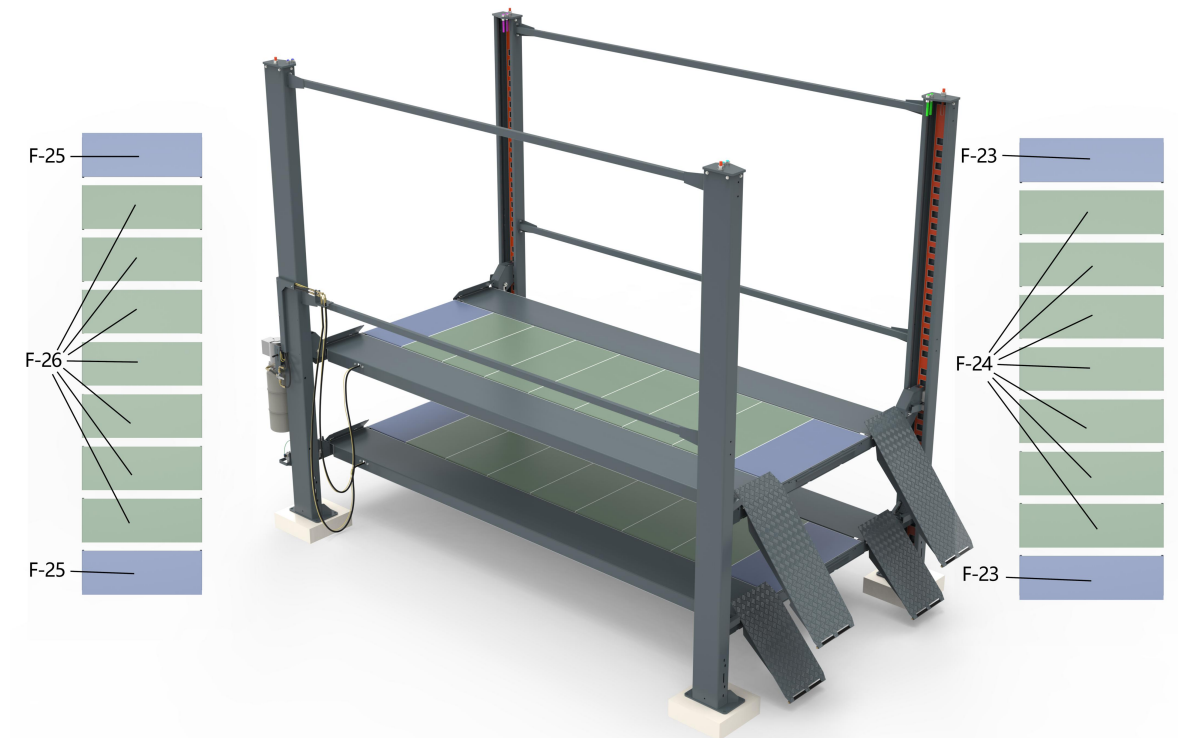


Step 16: Install the Runway Plates

Install the following components:

- Wide Runway Plate (F-23)
- Wide Runway Plate (F-24)
- Narrow Runway Plate (F-25)
- Narrow Runway Plate (F-26)

Use the open-end wrench and socket wrench provided in the tool kit to complete the installation.



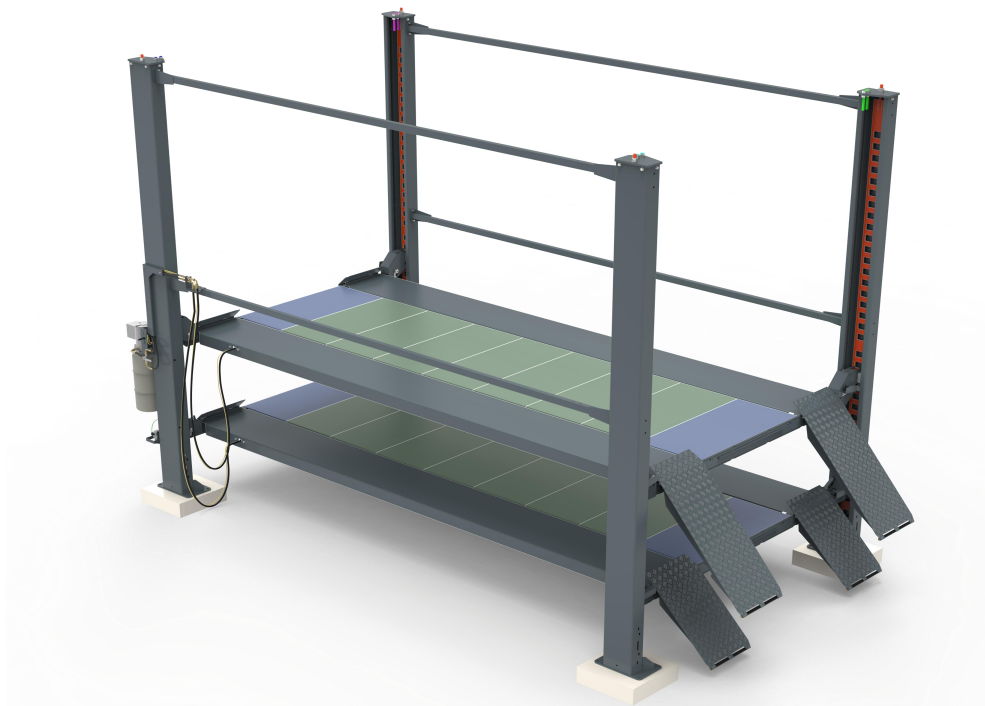
Step 17: Leveling, Anchoring, and Final Finishing

Use a level to check the vertical alignment of the columns and the horizontal level of the platforms. Adjust the alignment using **round slotted shims** as required. Secure the air hoses and hydraulic hoses together using **cable ties**.

After confirming proper leveling and alignment: Drill the anchor bolt holes using a hammer drill. Install the expansion anchor bolts to securely fasten the lift to the foundation. Install the grease nipples and apply grease to the designated lubrication points.

Clean the installation area, remove debris, wipe off any oil stains from the equipment, and return all tools to their proper storage locations.

Tools required: hammer, level, hammer drill.



Operation

Before each use

Inspect cables, locks, hoses, anchors, controls and the vehicle path. Do not operate with damage, a leak, uneven movement or a failed lock. Keep people away from the lift and confirm overhead and adjacent-platform clearance.

Load and position

Lower the selected platform fully. Set the platform selector for the intended level. Drive on slowly, center the vehicle and stop in the correct position. Apply the parking brake, put the transmission in Park or the appropriate gear and turn off the engine. Do not exceed 9,000 lb on the lower platform or 8,000 lb on the upper platform.

Raise

Operate the power-unit raise button for the selected platform. Watch all corners and cables as it rises. Stop immediately if the platform tilts, binds or moves unevenly. Operate only one platform at a time.

Park on the locks

Release the raise button at the desired position. Operate the lowering control without releasing the safety locks until all locks support the platform. Confirm complete engagement before parking below it or entering the area beneath.

Lower

Remove any vehicle or obstruction in the lowering path. Raise the selected platform slightly to take its weight off the locks. Hold the pneumatic lock-release control in the release position and operate the lowering control. Watch all corners; release the controls to stop. Never force a platform down when a lock remains engaged.

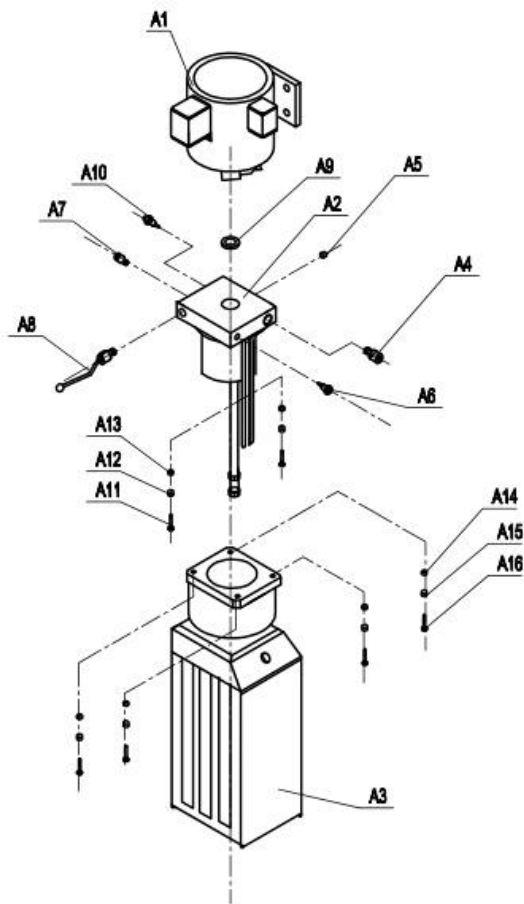
After use

Return the controls to their neutral position and secure the lift against unauthorized use. Keep raised platforms supported on their mechanical locks. Report any fault and remove the lift from service until repaired.

7. Hydraulic System and Electrical Components

1. Exploded View of the Hydraulic Power Unit
2. Hydraulic System of the Equipment
 - a. Hydraulic Schematic Diagram
 - b. Hydraulic Components List
 - c. Operating Principle of the Hydraulic System
 - d. Electrical Schematic Diagram

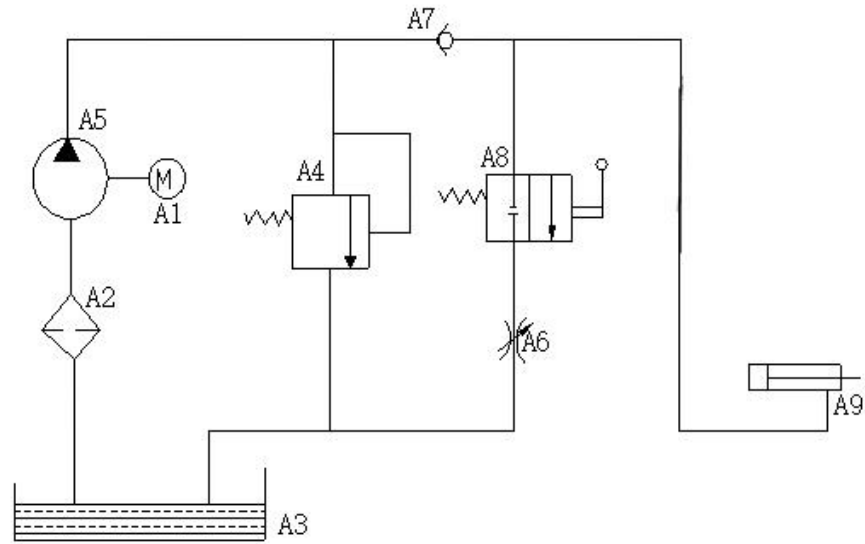
1. Exploded View of the Hydraulic Power Unit



Serial	Name	Quantity	Serial	Name	Quantity
A1	Electric Motor	1	A9	Sealing Gasket	1
A2	Valve Spool	1	A10	Plug	1
A3	Oil Tank	1	A11	M5 x 40 Hex Head Bolt	4
A4	Lowering Flow Control Valve	1	A12	Ø5 Flat Washer	4
A5	Plug	1	A13	Ø5 Spring Washer	4
A6	Oil Outlet	1	A14	M6X20 Hex Head Bolt	4
A7	Oil Outlet	1	A15	Ø6 Flat Washer	4
A8	Manual Lever Valve	1	A16	Ø6 Spring Washer	4

2. Hydraulic System of the Equipment

a. Hydraulic Schematic Diagram



b. Hydraulic components

Serial	Name	Model	Specification	Quantity	Notes
A1	Electric Motor			1	
A2	Oil Filter			1	
A3	Oil Tank			1	
A4	Relief Valve			1	
A5	Hydraulic Pump			1	
A6	Flow Control Valve			1	
A7	Check Valve			1	
A8	Manual Valve			1	
A9	Hydraulic Cylinder			1	

c. Working Principle of the Hydraulic System

When the **Start button** on the power unit is pressed, the electric motor starts and drives the hydraulic pump. The pump draws hydraulic oil from the reservoir and delivers pressurized oil to **Cylinder A9** , causing the piston rod to extend. At this time, the **Relief Valve (A4)** remains closed. (The relief valve pressure has been preset at the factory to ensure the lift meets its rated load capacity.)

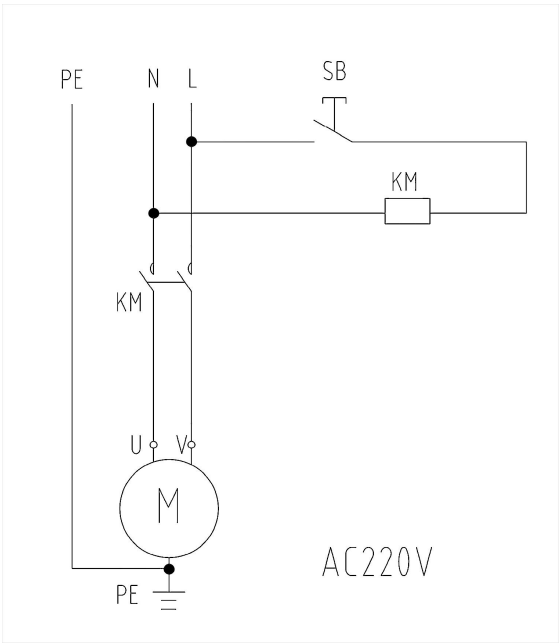
If the system pressure exceeds the preset value of the relief valve, the relief valve will automatically release oil to prevent overpressure. When the Start button is released, the oil supply stops and the lifting operation ends. The lift is then ready for operation.

To lower the lift:

First, jog the Start button to raise the platform slightly. Then disengage the pneumatic safety hook. Press the **Manual Valve (A8)** to allow the hydraulic cylinder to release oil. The platform will begin to descend.

d. Electrical Schematic Diagram

(During installation, wiring must strictly follow the electrical schematic diagram. Ensure all grounding points are properly and reliably grounded. The input power supply must be equipped with leakage protection and overcurrent protection devices.)



Code Name	Name	Model	Quantity
SB	Push Button (Jog)	LXW5-11M/L	1

Troubleshooting

Motor will not run

Stop operation. Have a qualified electrician check the supply, disconnect, circuit protection, controls and motor connections.

Motor runs, but platform does not lift

Check the oil level with platforms lowered. Have a qualified technician inspect the pump, suction line, valves, selector and motor wiring. Do not adjust the relief valve to lift a heavier load.

Platform drifts down

Remove the lift from service. Park safely on the locks and have a qualified technician check the hydraulic system for leakage or valve faults.

Safety lock will not engage

Stop operation. Check lock alignment, return springs, column alignment and obstructions. Do not store a vehicle on a platform with an inoperative lock.

Safety lock will not release

Raise slightly to unload the locks. Check the regulated air supply and air lines. Do not force the platform down; call for service if the lock remains engaged.

Uneven movement or damaged cable

Stop immediately and remove the lift from service. Have a qualified technician inspect cable routing, tension, pulleys, attachments and wear.

Maintenance & inspection

Before each use

Check lock engagement and release; inspect hydraulic and air hoses for leaks; inspect lifting cables and cable attachments for wear, damage or looseness; check retaining rings, fasteners, controls, electrical cables and anchor areas.

Weekly

Inspect anchors and surrounding concrete, check the hydraulic oil level with platforms lowered, inspect fasteners and check pulley/shaft condition. Use the specified anchor and fastener tightening requirements.

Monthly

Lubricate pulleys and pulley shafts. Inspect the cables closely and replace damaged or severely worn cables before further use. Replace hydraulic oil at the factory-listed monthly service interval.

During service

Disconnect electrical and air supplies. Support platforms safely before relieving hydraulic pressure or working on lifting components. Use replacement parts matching the model, serial number and part specifications.

Service record

Record the date, inspection findings, corrective work and technician. Keep the records with the lift. Do not return the lift to use until every fault affecting safe operation is corrected.

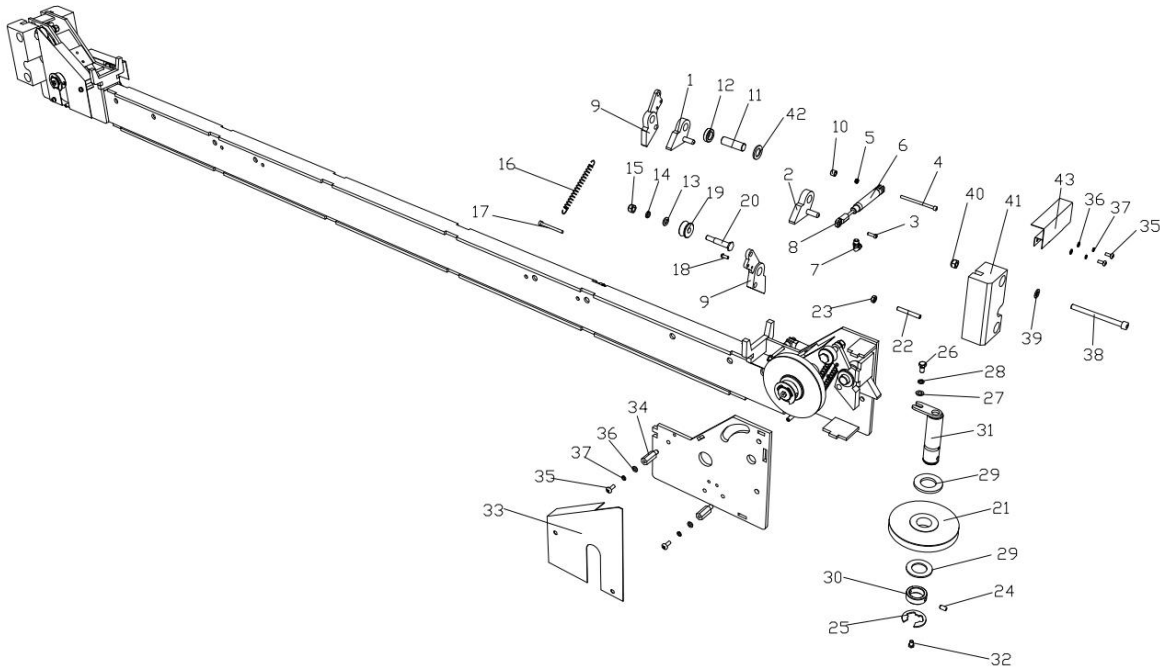
10. Detailed Assembly Components

1. Lower Level Cross Beam parts

Lower Level Cross Beam Installation				
Serial	Name	Specification	Quantity	Notes (Location)
1	Pneumatic Safety Lock Block Assembly		2	Cross Beam Safety Lock
2	Pneumatic Safety Lock Block Assembly		2	Cross Beam Safety Lock
3	M6 - 20 Button Head Socket Cap Screw	GB/T70.2-2000	4	Pneumatic Safety Lock
4	M6 - 95 Socket Head Cap Screw	GB 818-85 H	4	Pneumatic Safety Lock
5	M6 Nut	GB/T41-86 (4.8)	4	Pneumatic Safety Lock
6	Unlocking Air Cylinder	LMTAL16 x 20CB	4	
7	90° Air Cylinder Fitting (O-Ring Seal)	YPL6-M5	8	Air Hose Connection to Cylinder
8	M6 Rod End Bearing (Spherical Bearing / Heim Joint)	M6	8	Cylinder to Safety Lock Connection
9	Mechanical Safety Lock Block Assembly		4	Cross Beam Safety Lock
10	Unlocking Cylinder Spacer Sleeve	Ø 14/Ø 9--11mm	4	Air Cylinder
11	Safety Lock Pin	Ø 20--65mm	4	Safety Lock
12	Safety Lock Nylon Spacer Sleeve	Ø 35Ø 21-10mm	4	Safety Lock
13	Ø 10 Flat Washer	GB 95-85-C	4	Mechanical Safety Lock
14	Ø 10Spring Washer	GB 93-87	4	Mechanical Safety Lock
15	M10 Lock Nut	GB/T927-88	4	Mechanical Safety Lock
16	Tension Spring	Ø 12/Ø 1.5-100mm	8	Mechanical Safety Lock
17	M6-65 Socket Head Cap Screw	GB 70-85	8	Mechanical Safety Lock Tension Spring
18	M6 - 15 Button Head Socket Cap Screw	GB/T70.2-2000	8	Mechanical Safety Lock Tension Spring
19	Lifting Cable Limit Pulley (Zinc-Plated Steel)	Ø 36Ø 25/Ø 12-17mm	4	Mechanical Safety Lock
20	Lifting Cable Limit Pulley Hex Bolt (Zinc-Plated Steel)	Ø 12-42/M10-23mm	4	Mechanical Safety Lock
21	Lifting Cable Pulley	Ø 148/Ø 32/R5--20mm	4	
22	M8-50 Cup-Point Set Screw	GB 80-85	4	Lifting Cable Limit Stop
23	M8 Nut	GB/T41-86 (4.8)	4	Lifting Cable Limit

				Stop
24	M8-15 Socket Head Cone-Point Set Screw	GB 78-85	4	Cable Pulley Limit Spacer Sleeve
25	Ø 30 E-Clip (for Ø29 Shaft)	Ø 30/44-45/65MN Manganese Steel --2.5mm	4	Cable Pulley Shaft
26	M8- 15 Hex Head Bolt	GB/T5781C(4.8)	8	Cable Pulley Shaft
27	Ø 8 Flat Washer	GB 95-85-C	8	Cable Pulley Shaft
28	Ø 8 Spring Washer	GB 93-87	8	Cable Pulley Shaft
29	Ø 32 Flat Washer --2mm	GB 95-85-C	4	Cable Pulley Shaft
30	Cable Pulley Limit Sleeve	Ø 45/Ø 32--14mm	4	Cable Pulley Shaft
31	Cable Pulley Shaft	Ø 32-119-80mm	4	Cross Beam Wire Rope Pulley
32	Grease Fitting		4	Cross Beam Wire Rope Pulley Shaft
33	Cross Beam Protective Cover	184-225-29	4	Cross Beam
34	Hex / Socket Head Screws (Zinc-Plated)	Internal Thread M6 x 15 (Hex 14-31), External Thread M8 x 12	8	Protective Cover
35	M6- 15 Phillips Pan Head Screw	GB 818-85 H	8	Protective Cover
36	Ø 6 Flat Washer	GB 95-85-C	8	Protective Cover
37	Ø 6 Spring Washer	GB 93-87	8	Protective Cover
38	M10- 135 Socket Head Cap Screw	GB 818-85 H	8	Cross Beam Limit Slider Block
39	Ø 10 Flat Washer	GB 95-85-C	16	Cross Beam Limit Slider Block
40	M10 Lock Nut	GB/T927-88	8	Cross Beam Limit Slider Block
41	Cross Beam Limit Slider Block			Lower Level Cross Beam Assembly
42	Flat Washer--2mm			Safety Lock Pin
43	Cross Beam Unlocking Cylinder Cover	150-84.8-35	4	Lower Level Cross Beam Assembly
44	Ø 6 Air Hose Tee Fitting	YPE-6	4	Air Cylinder
45	Ø 6 Air Hose	PU6-4---L=680mm	2	Air Cylinder (to be cut to length during assembly by the operator)
46	Ø 6 Air Hose	PU6-4---L=1900mm	2	Air Cylinder (to be cut to length during assembly by the operator)

				operator)
47	Ø 6 Air Hose YPE-6 Connector	PU6-4---L=550mm	2	Air Cylinder (to be cut to length during assembly by the operator)
48	Lower Level Cross Beam Assembly	2760-65-315	2	

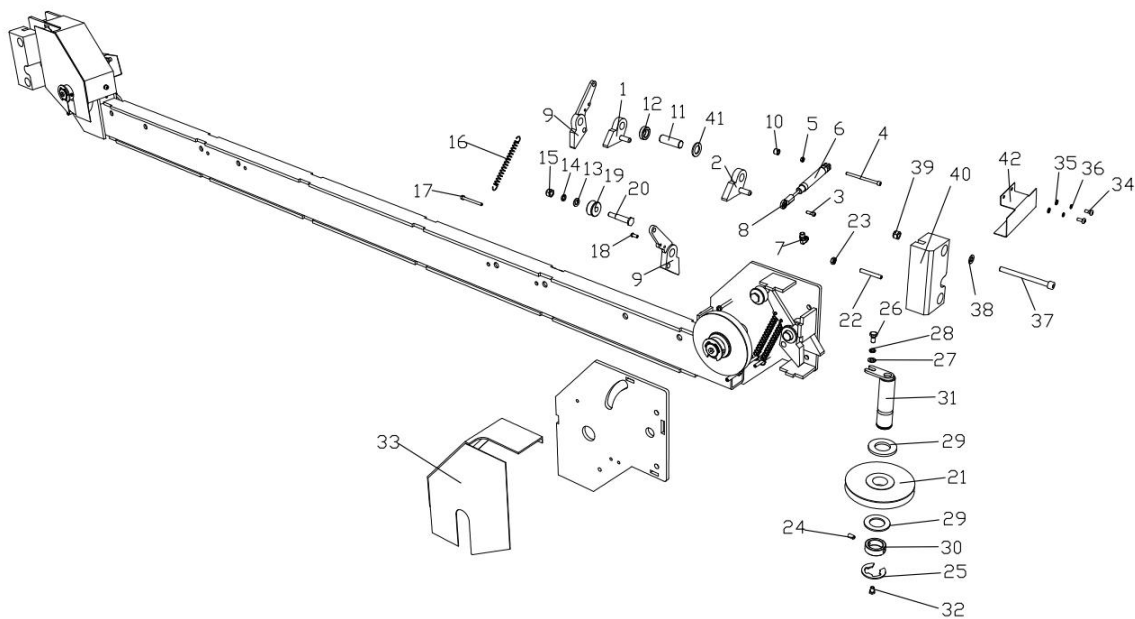


2. Upper Level Cross Beam parts

Upper Level Cross Beam Installation				
Serial	Name	Specification	Quantity	Notes (location)
1	Pneumatic Safety Lock Block Assembly		2	Cross Beam Safety Lock
2	Pneumatic Safety Lock Block Assembly		2	Cross Beam Safety Lock
3	M6- 20 Button Head Socket Cap Screw	GB/T70.2-2000	4	Pneumatic Safety Lock
4	M6- 95 Socket Head Cap Screw	GB 818-85 H	4	Pneumatic Safety

				Lock
5	M6 Nut	GB/T41-86(4.8)	4	Pneumatic Safety Lock
6	Unlocking Air Cylinder	LMTAL16 x 20CB	4	
7	90° Cylinder Fitting (with O-Ring Seal)	YPL6-M5	8	Air Hose Connection to Cylinder
8	M6 Rod End Bearing (Spherical Bearing / Heim Joint)	M6	8	Cylinder to Safety Lock Connection
9	Mechanical Safety Lock Block Assembly		4	Cross Beam Safety Lock
10	Unlocking Cylinder Spacer Sleeve	Ø 14/Ø 9--11mm	4	Air Cylinder
11	Safety Lock Pin	Ø 20--65mm	4	Safety Lock
12	Safety Lock Nylon Spacer Sleeve	Ø 35Ø 21-10mm	4	Safety Lock
13	Ø 10 Flat Washer	GB 95-85-C	4	Mechanical Safety Lock
14	Ø 10 Spring Washer	GB 93-87	4	Mechanical Safety Lock
15	M10 Lock Nut	GB/T927-88	4	Mechanical Safety Lock
16	Tension Spring	Ø 12/Ø 1.5-100mm	8	Mechanical Safety Lock (Same as PP8S Model)
17	M6-65 Socket Head Cap Screw	GB 70-85	8	Mechanical Safety Lock Tension Spring
18	M6- 15 Button Head Socket Cap Screw	GB/T70.2-2000	8	Mechanical Safety Lock Tension Spring
19	Lifting Cable Limit Pulley (Zinc-Plated Steel)	Ø 36Ø 25/Ø 12-17mm	4	Mechanical Safety Lock
20	Lifting Cable Limit Pulley Hex Bolt (Zinc-Plated Steel))	Ø 12-42/M10-23mm	4	Mechanical Safety Lock
21	Lifting Cable Pulley	Ø 148/Ø 32/R5--20mm	4	
22	M8-50 Cup-Point Set Screw	GB 80-85	4	Lifting Cable Limit Stop
23	M8 Nut	GB/T41-86(4.8)	4	Lifting Cable Limit Stop
24	M8-15 Cone-Point Set Screw	GB 78-85	4	Cable Pulley Limit Spacer Sleeve
25	Ø 30 E-Clip (for Ø29 Shaft)	Ø 30/44-45/65MN Manganese Steel --2.5mm	4	Cable Pulley Shaft
26	M8- 15 Hex Head Bolt	GB/T5781C(4.8)	8	Cable Pulley Shaft
27	Ø 8 Flat Washer	GB 95-85-C	8	Cable Pulley Shaft
28	Ø 8 Spring Washer	GB 93-87	8	Cable Pulley Shaft
29	Ø 32 Flat Washer --2mm	GB 95-85-C	4	Cable Pulley

				Shaft
30	Cable Pulley Limit Sleeve	Ø 45/Ø 32--14mm	4	Cable Pulley Shaft
31	Cable Pulley Shaft	Ø 32-119-80mm	4	Cross Beam Wire Rope Pulley
32	Grease Fitting		4	Cross Beam Wire Rope Pulley Shaft
33	Cross Beam Protective Cover	184-225-29	4	Cross Beam
34	M6- 15 Phillips Pan Head Screw	GB 818-85 H	4	Protective Cover
35	Ø 6 Flat Washer	GB 95-85-C	4	Protective Cover
36	Ø 6 Spring Washer	GB 93-87	4	Protective Cover
37	M10- 135 Socket Head Cap Screw	GB 818-85 H	8	Cross Beam Limit Slider Block
38	Ø 10 Flat Washer	GB 95-85-C	16	Cross Beam Limit Slider Block
39	M10 Lock Nut	GB/T927-88	8	Cross Beam Limit Slider Block
40	Cross Beam Limit Slider Block			Upper Level Cross Beam Assembly
41	Flat Washer --2mm			Safety Lock Pin
42	Cross Beam Unlocking Cylinder Cover	150-84.8-35	4	Upper Level Cross Beam Assembly
43	Ø 6 Air Hose Tee Fitting	YPE-6	4	Air Cylinder
44	Ø 6 Air Hose	PU6-4---L=680mm	2	Air Cylinder (to be cut to length during assembly by the operator)
45	Ø 6 Air Hose	PU6-4---L=1900mm	2	Air Cylinder (to be cut to length during assembly by the operator)
46	Ø 6 Air Hose YPE-6 Connector	PU6-4---L=550mm	2	Air Cylinder (to be cut to length during assembly by the operator)
47	Upper Level Cross Beam Assembly	2760-65-315	2	

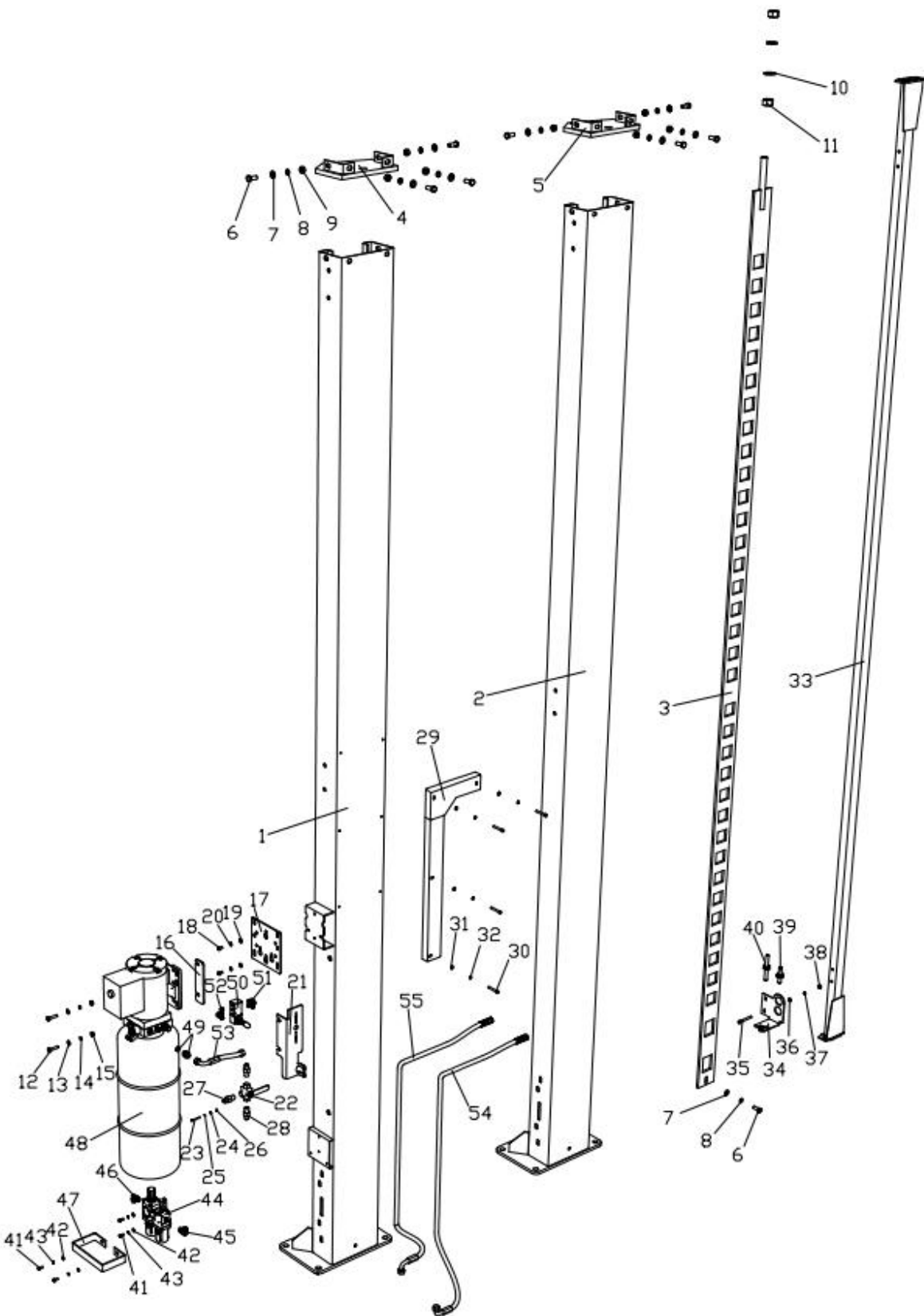


3. Column Parts

Column Installation				
Serial	Name	Specification	Quantity	Notes (location)
1	Main Column	4180-250-130	1	
2	Secondary Column	4180-250-130	3	
3	Safety Lock Plate	4224-101-10	4	Column
4	Column Top Cover - Left	262-200-16	2	Column
5	Column Top Cover - Right	262-200-16	2	Column
6	M12-30 Hex Head Bolt	GB/T5781C(4.8)	36	Column Cover Plate / Safety Lock Plate / Column Cross Beam
7	Ø12 Flat Washer	GB 96-85-C	68	Column Cover Plate / Safety Lock Plate / Column Cross Beam
8	Ø12 Spring Washer	GB 93-87	36	Column Cover Plate / Safety Lock Plate / Column Cross Beam
9	M12 Nut	GB/T41-86(4.8)	32	Column Cover Plate / Column Cross Beam
10	Ø 24 Flat Washer	GB 95-85-C	8	Column Safety Lock Plate
11	M24 Nut	GB/T41-86(4.8)	8	Column Safety Lock Plate
12	M8- 35 Hex Head Bolt	GB/T5781C(4.8)	4	Power Unit
13	Ø 8 Flat Washer	GB 95-85-C	8	Power Unit
14	Ø 8 Spring Washer	GB 93-87	4	Power Unit
15	M8 Nut	GB/T41-86(4.8)	4	Power Unit
16	Rubber Vibration Pad	160-47-5	2	Power Unit - Steel Type
17	Power Unit Mounting Bracket	175-175-5	1	Column
18	M8- 15 Button Head Socket Cap Screw	GB/T70.2-2000	2	Power Unit Mounting Bracket
19	Ø 8 Flat Washer	GB 95-85-C	2	Power Unit Mounting Bracket
20	Ø 8 Spring Washer	GB 93-87	2	Power Unit Mounting Bracket
21	Unlocking Valve Bracket		1	Power Unit Mounting Bracket
22	Manual Hydraulic Three-Way Ball Valve	NPT1/4	1	Manual Hydraulic Directional Valve
23	M4- 35 Socket Head Cap Screw	GB 818-85 H	2	NPT1/4 Hydraulic Directional Valve
24	Ø 4 Flat Washer	GB 95-85-C	4	NPT1/4 Hydraulic Directional Valve
25	Ø 4 Spring Washer	GB 93-87	2	NPT1/4 Hydraulic Directional Valve

26	M4 Nut	GB/T41-86(4.8)	2	NPT1/4 Hydraulic Directional Valve
27	Fitting for Manual Hydraulic Three-Way Ball Valve	SAE 9/16 Flat Seat - 9/16 Male Cone	1	Power Unit Fitting
28	90° Elbow Fitting for Manual Hydraulic Three-Way Ball Valve	9/16Male Cone--NPT1/4	2	Manual Hydraulic Three-Way Ball Valve with Hose Connection (1345 / 1255 mm)
29	Hydraulic Hose Protective Cover	595-245-30	1	Column
30	M6- 45 Socket Head Cap Screw	GB 818-85 H	4	Hydraulic Hose Protective Cover
31	Ø 6 Flat Washer	GB 95-85-C	4	Hydraulic Hose Protective Cover
32	Ø 6 Spring Washer	GB 93-87	4	Hydraulic Hose Protective Cover
33	Column Cross Beam	4468-60-40	4	Column
34	Corrugated Hose Bracket		1	Column Cross Beam
35	M8- 75 Socket Head Cap Screw	GB/T5781C(4.8)	2	Corrugated Hose Bracket
36	Ø 8 Flat Washer	GB 95-85-C	4	Corrugated Hose Bracket
37	Ø 8 Spring Washer	GB 93-87	2	Corrugated Hose Bracket
38	M8 Nut	GB/T41-86(4.8)	2	Corrugated Hose Bracket
39	Hydraulic Hose Adapter (Double Nut, Double Washer)	Double-Ended 9/16 Male Cone Fully Threaded Stud--80mm	1	Fitting for Lower Platform 4090 mm Hose
40	Hydraulic Hose Adapter (Double Nut, Double Washer)	Double-Ended 9/16 Male Cone Fully Threaded Stud--130mm	1	Fitting for Upper Platform 4000 mm Hose
41	M6- 15 Phillips Pan Head Screw	GB 818-85 H	4	AL-3000-03 Oil-Water Separator
42	Ø 6 Flat Washer	GB 95-85-C	4	AL-3000-03 Oil-Water Separator
43	Ø 6 Spring Washer	GB 93-87	4	AL-3000-03 Oil-Water Separator
44	Air Filter/Regulator	AL-3000-03	1	Main Column
45	Oil-water separator connector (3/8)- For Ø8 Air Hose	PL8-03(90° Elbow Fitting)	1	Air Inlet- Air Filter/Regulator
46	Oil-water separator connector (3/8) - For Ø6 Air Hose	PL6-03(90° Elbow Fitting)	1	Air Outlet- Oil-Water Separator
47	Air Filter/Regulator Bracket		1	Main Column
48	Power Unit		1	Main Column
49	Hydraulic Hose Fitting (with Copper Washer)	Ø 14 Copper Washer	1	Power Unit and Hydraulic Hose
50	3-Position 5-Way Spring Return Pneumatic Valve	4H230E-08(0.1--0.8mpa)	1	Unlock

51	90° Elbow Air Fitting for 3-Position 5-Way Valve (For Ø6 Air Hose)	PL6-02	3	4H230E-08(0.1--0.8mpa) 3-Position 5-Way Spring Return Pneumatic Valve
52	3-position 5-way self-resetting exhaust valve exhaust muffler	SLM-01	2	4H230E-08(0.1--0.8mpa) 3-Position 5-Way Spring Return Pneumatic Valve
53	Hydraulic Hose	Straight x 90° Elbow Hose (L = 185 mm) - SAE 9/16	1	Hydraulic Hose from Power Unit to Directional Valve
54	Hydraulic Hose	Straight x 90° Elbow Hose (L = 1345 mm) - SAE 9/16	2	Directional Valve to 130 mm Straight Adapter Fitting
55	Hydraulic Hose	Straight x 90° Elbow Hose (L = 1255 mm) - SAE 9/16	2	Directional Valve to 80 mm Straight Adapter Fitting
56	Ø 6 Air Hose	PU6-4---L=1500mm	1	Oil-water separator to Unlock Valve
57	Ø 6 Air Hose	PU6-4---L=5500mm	2	Unlock Valve to Upper and Lower Platforms
58	Lower Level Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=2530mm	1	Wrapped Hydraulic Hose for Lower Platform (4090 mm)
59	Upper Level Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=2420mm	1	Wrapped Hydraulic Hose for Upper Platform (4000 mm)
60	Hydraulic Hose Fireproof Sleeve	Expanded Length 145----L=300mm	1	Wrapped Hydraulic Hose from Power Unit to Directional Valve (185 mm)

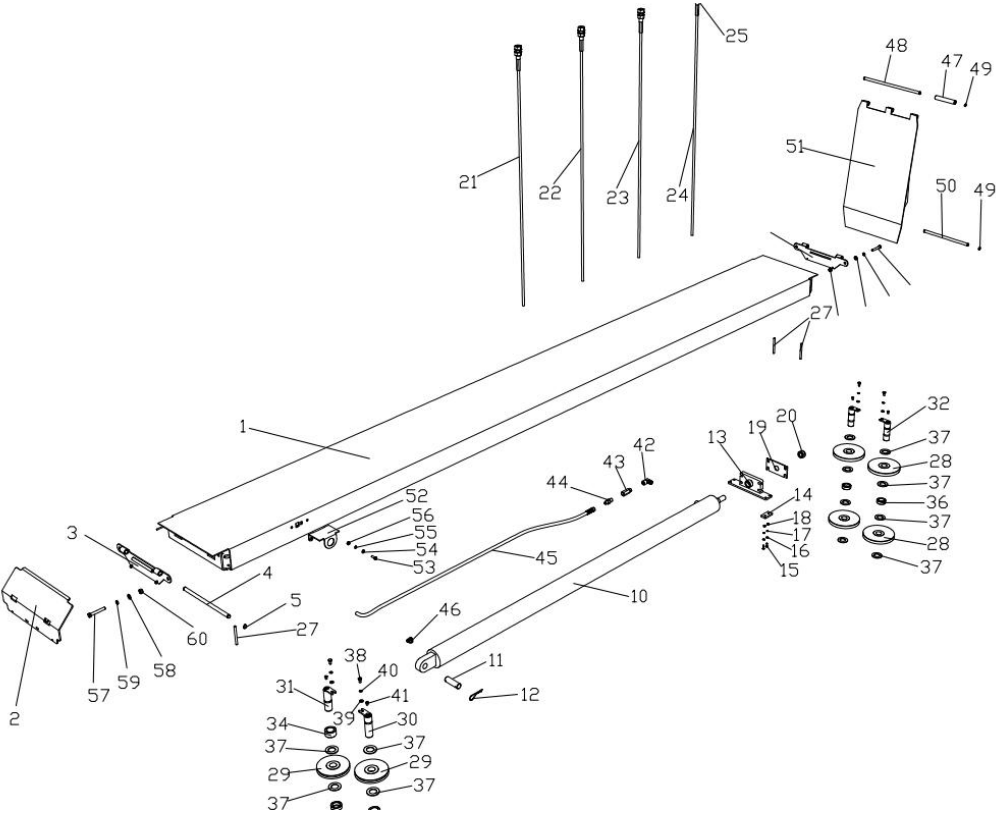


4. Lower platform Parts

Lower platform Installation				
Serial	Name	Specification	Quantity	Notes (locations)
1	Main Platform	4768-484-120	1	Platform
2	Wheel Stop (Pre-Assembled with Tension Spring)	484-236-5	2	Platform
3	Hook	594-87.5-5	2	Platform
4	Wheel Stop Pin	Ø 16-350/340	2	Platform
5	Ø 16 Retaining Ring	GB/T894-2017	4	Platform
6	Wide Runway Plate	1174-529-115 (With Notch)	4	Platform
7	Wide Runway Plate	1174-529-115	14	Platform
8	Narrow Runway Plate	1016-529-115 (With Notch)	4	Platform
9	Narrow Runway Plate	1016-529-115	14	Platform
10	Hydraulic Cylinder	Ø 75-Ø 28-1790	1	Hydraulic Cylinder
11	Cylinder Rear Shaft	Ø 25-81-65	1	Hydraulic Cylinder
12	R-Type Spring Pin		2	Hydraulic Cylinder
13	Cable Pulling Plate	260-50-8/140-72-20	1	Hydraulic Cylinder
14	Pulling Plate Slider Block	58-30-8	2	Cable Pulling Plate
15	M6- 20 Countersunk Bolt	GB 68-85	4	Cable Pulling Plate
16	Ø 6 Flat Washer	GB 95-85-C	4	Cable Pulling Plate
17	Ø 6 Spring Washer	GB 93-87	4	Cable Pulling Plate
18	M6 Nut	GB/T41-86(4.8)	4	Cable Pulling Plate
19	Cable Lock Plate	140-70-5	1	Cable Pulling Plate
20	M24 Self-Locking Nut	GB/T927-88	1	Hydraulic Cylinder
21	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=5232mm-Ø9.53	1	Platform
22	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=6915mm-Ø9.53	1	Platform
23	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=10203mm-Ø9.53	1	Platform
24	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=11886mm-Ø9.53	1	Platform
25	M20 Nut	GB/T41-86(4.8)	8	Lifting Cable
26	Ø20 Flat Washer	GB 96-85-C	8	Lifting Cable
27	M10-110mm Socket Set Screw (Cup Point)	GB 80-85	6	Lifting Cable Limit Stop
28	Lifting Cable Pulley	Ø 178/Ø 32/R5-20	4	Platform
29	Lifting Cable Pulley	Ø 148/Ø 32/R5-20	2	Platform
30	Front Cylinder Cable Pulley Shaft - 1 Hole	Ø 32/108-59	1	Lifting Cable Pulley
31	Rear Cylinder Cable Pulley Shaft - 1 Hole	Ø 32/108-33	1	Lifting Cable Pulley

32	Rear Cylinder Cable Pulley Shaft - 2 Holes	Ø 32/108-33-42	2	Lifting Cable Pulley
33	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-16	1	Lifting Cable Pulley
34	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-26	1	Lifting Cable Pulley
35	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-42	1	Lifting Cable Pulley
36	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-16	2	Lifting Cable Pulley
37	Flat Washer	GB 95-85-C	12	Platform Cable Pulley Shaft
38	M8- 15 Hex Head Bolt	GB/T5781C(4.8)	4	Platform Cable Pulley Shaft
39	Ø8 Flat Washer	GB 96-85-C	4	Platform Cable Pulley Shaft
40	Ø8 Spring Washer	GB 93-87	4	Platform Cable Pulley Shaft
41	Grease Fitting		4	Platform Cable Pulley Shaft
42	90 degree ZG3/8 Male-Female Adapter		1	Hydraulic Cylinder
43	ZG3/8 Hydraulic Safety Valve		1	Hydraulic Cylinder
44	ZG3/8-9/16 Adapter Fitting		1	Hydraulic Cylinder
45	Hydraulic Hose (L-Type)	L1500- Double Straight 9/16 Male Cone Hydraulic Hose	1	Hydraulic Cylinder
46	Exhaust Muffler		1	Hydraulic Cylinder
47	Black High-Density Polyethylene (HDPE) Nylon Pulley	Ø35-Ø17-150mm	4	Ramp Roller
48	Galvanized Ramp Roller Pin	Ø 16-455/445	2	Ramp Roller Pin
49	External Retaining Ring Ø 16	GB/T894-2017	8	Ramp Roller Pin Limit Stop
50	Ramp Pin	Ø 16-350/340	4	Ramp Connection
51	Ramp Assembly	872-484-140	2	Platform
52	Platform Fireproof Cloth Bracket		1	Platform
53	M8- 25 Hex Head Bolt	GB/T5781C(4.8)	2	Platform Fireproof Cloth Bracket
54	Ø 8 Flat Washer	GB 95-85-C	4	Platform Fireproof Cloth Bracket
55	Ø 8 Spring Washer	GB 93-87	2	Platform Fireproof Cloth Bracket
56	M8 Nut	GB/T41-86(4.8)	2	Platform Fireproof Cloth Bracket
57	M12- 80 Hex Head Bolt (Partially Threaded)	GB/T5781C(4.8)	8	Platform Cross Beam Connection
58	Ø 12 Flat Washer	GB 95-85-C	18	Platform Cross Beam Connection
59	Ø 12 Spring Washer	GB 93-87	8	Platform Cross Beam Connection
60	M12 Nut	GB/T41-86(4.8)	8	Platform Cross Beam

				Connection
61	Secondary Platform Assembly	4768-484-120	1	Platform
62	Air Hose	PU0850	1	Platform



5. Upper platform Parts

Upper platform installation				
Serial	Name	Specification	Q	Notes(location)
1	Main Platform	4768-484-120	1	Platform
2	Wheel Stop (Pre-Assembled with Tension Spring)	484-236-5	2	Platform
3	Hook	594-87.5-5	2	Platform
4	Wheel Stop Pin	Ø 16-350/340	2	Platform
5	Ø 16 Retaining Ring	GB/T894-2017	4	Platform
6	Wide Runway Plate	1174-529-115 (With Notch)	2	Platform
7	Wide Runway Plate	1174-529-115	7	Platform
8	Narrow Runway Plate	1016-529-115 (With Notch)	2	Platform
9	Narrow Runway Plate	1016-529-115	7	Platform
10	Hydraulic Cylinder	Ø 75-Ø 28-1790	1	Hydraulic Cylinder
11	Cylinder Rear Shaft	Ø 25-81-65	1	Hydraulic Cylinder
12	R-Type Spring Pin		2	Hydraulic Cylinder
13	Dual-Stage Lifting Bracket Slider Block	201-42-14	2	Dual-Stage Lifting Bracket
14	Dual-Stage Lifting Bracket Wire Rope Pulley	Ø 148/Ø 32/R5-36 Double Groove	2	Dual-Stage Lifting Bracket
15	Dual-Stage Lifting Bracket Wire Rope Pulley Shaft	Ø 32/82-41	2	Dual-Stage Lifting Bracket
16	Dual-Stage Lifting Bracket Wire Rope Pulley Spacer Sleeve	Ø 50/Ø 33/-14	4	Dual-Stage Lifting Bracket
17	M10-80mm Socket Set Screw (Cup Point)	GB 80-85	4	Dual-Stage Lifting Bracket Cable Limit Stop
18	M8- 15 Hex Head Bolt	GB/T5781C(4.8)	2	Dual-Stage Lifting Bracket Cable Shaft
19	Ø 8 Flat Washer	GB 95-85-C	2	Dual-Stage Lifting Bracket Cable Shaft
20	Ø 8 Spring Washer	GB 93-87	2	Dual-Stage Lifting Bracket Cable Shaft
21	M8- 15 Countersunk Bolt	GB 68-85	6	Dual-Stage Bracket Slider Block
22	M24 Self-Locking Nut	GB/T927-88	1	Hydraulic Cylinder
23	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=5381mm- Ø9.53	1	Platform
24	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=7064mm- Ø9.53	1	Platform
25	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=10352mm- Ø9.53	1	Platform

26	6-19+IWRC-ZS-DIN-3060 Steel Cable	L=12035mm-Ø9.53	1	Platform
27	M20 Nut	GB/T41-86(4.8)	8	Lifting Cable
28	Ø20 Flat Washer	GB 96-85-C	8	Lifting Cable
29	M8 - 45 Hex Head Bolt	GB/T5781C(4.8)	4	Lifting Cable Limit Stop
30	Ø 8 Flat Washer	GB 95-85-C	8	Lifting Cable Limit Stop
31	Ø 8 Spring Washer	GB 93-87	4	Lifting Cable Limit Stop
32	M8 Nut	GB/T41-86(4.8)	4	Lifting Cable Limit Stop
33	M10-110mm Socket Set Screw (Cup Point)	GB 80-85	6	Lifting Cable Limit Stop
34	Lifting Cable Pulley	Ø 178/Ø 32/R5-36 Double Groove	2	Platform
35	Lifting Cable Pulley	Ø 148/Ø 32/R5-20	2	Platform
36	Front Cylinder Cable Pulley Shaft - 1 Hole	Ø 32/108-42	1	Lifting Cable Pulley
37	Rear Cylinder Cable Pulley Shaft - 1 Hole	Ø 32/108-65	1	Lifting Cable Pulley
38	Rear Cylinder Cable Pulley Shaft - 2 Holes	Ø 32/108-53	2	Lifting Cable Pulley
39	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-10	2	Lifting Cable Pulley
40	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-32	2	Lifting Cable Pulley
41	Cable Pulley Spacer Sleeve	Ø 50/Ø 33/-13	4	Lifting Cable Pulley
42	Flat Washer	GB 95-85-C	8	Platform Cable Pulley Shaft
43	M8 - 15 Hex Head Bolt	GB/T5781C(4.8)	4	Platform Cable Pulley Shaft
44	Ø8 Flat Washer	GB 96-85-C	4	Platform Cable Pulley Shaft
45	Ø8 Spring Washer	GB 93-87	4	Platform Cable Pulley Shaft
46	Grease Fitting		6	Platform Cable Pulley Shaft
47	90 degree ZG3/8 Male-Female Adapter		1	Hydraulic Cylinder
48	ZG3/8 Thread Explosion-Proof Valve		1	Hydraulic Cylinder
49	ZG3/8-9/16 Adapter Fitting		1	Hydraulic Cylinder
50	L-Type Hydraulic Hose	L1300-9/16 Male Cone Hydraulic Hose	1	Hydraulic Cylinder
51	Exhaust Muffler		1	Hydraulic Cylinder
52	Black High-Density Polyethylene (HDPE) Nylon Pulley	Ø35-Ø17-150mm	4	Ramp Roller
53	Galvanized Ramp Roller Pin	Ø 16-455/445	2	Ramp Roller Pin
54	Ø 16 External Retaining Ring	GB/T894-2017	8	Ramp Roller Pin Limit Stop
55	Ramp Pin	Ø 16-350/340	4	Ramp Connection
56	Ramp Assembly	1292-484-281	2	Platform

57	Platform Fireproof Cloth Bracket		1	Platform
58	M8 - 25 Hex Head Bolt	GB/T5781C(4.8)	2	Platform Fireproof Cloth Bracket
59	Ø 8 Flat Washer	GB 95-85-C	4	Platform Fireproof Cloth Bracket
60	Ø 8 Spring Washer	GB 93-87	2	Platform Fireproof Cloth Bracket
61	M8 Nut	GB/T41-86(4.8)	2	Platform Fireproof Cloth Bracket
62	M12- 80 Hex Head Bolt (Partially Threaded)	GB/T5781C(4.8)	8	Platform Cross Beam Connection
63	Ø 12 Flat Washer	GB 95-85-C	18	Platform Cross Beam Connection
64	Ø 12 Spring Washer	GB 93-87	8	Platform Cross Beam Connection
65	M12 Nut	GB/T41-86(4.8)	8	Platform Cross Beam Connection
66	Dual-Stage Lifting Bracket		1	
67	Secondary Platform Assembly	4768-484-120	1	Platform
68	Ø 6 Air Hose Tee Fitting	YPE-6	1	
69	Ø 6 Air Hose Straight Fitting	YPU-6	1	
70	Air Hose	PU0850	1	Platform

