Installation and Owner Manual

QL10K

Four-post vehicle lift | 10,000 lb rated capacity



Read this manual and all warning labels before installing, operating, or servicing the lift. Keep these instructions available to every operator.

Safety and Important Notices

Shipping damage: Inspect the shipment before assembly. The purchaser must file any claim for damage in transit with the carrier.

Operator training: Read this manual and every warning label before installing, operating, or servicing the lift. Only trained personnel should operate or repair this equipment.

Electrical connection: The lift has a 110V, single-phase, 1 HP motor with a prewired three-prong plug. Connect it to a properly grounded receptacle. Electrical repairs must be performed by a qualified electrician.

Grounding: Never remove the grounding prong or modify the plug. Keep the power cord and plug in good condition to help prevent electric shock.

Product changes: The manufacturer may make design improvements without notice and is not obligated to update previously sold equipment.

Warranty: Quick Lift USA automatically provides a two-year warranty on all non-wearable parts. No registration or paperwork is required to activate coverage. Contact Quick Lift USA for warranty assistance.

Rated capacity: Never exceed 10,000 lb. Confirm that the vehicle fits the runways and stays within the lift’s rated capacity.

Warning labels: Read and follow all labels attached to the lift. Keep them clean and legible.

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Use the drawing references and item numbers to identify components during installation and service. Keep this manual with the lift.

Product Overview

The QL10K combines elevated vehicle storage with access for inspection and maintenance. It accommodates cars, trucks, SUVs, and other vehicles within its 10,000 lb capacity and runway dimensions.

A hydraulic cylinder and steel lifting cables raise the runways smoothly and quietly.

Mechanical safety locks support the lift at designated locking positions. Lower the runways onto the locks and confirm that all four locks engage securely before working around a raised vehicle.

Adjustable cable connections allow the runways to be leveled at a locking position for vehicle storage, inspection, and maintenance.

Included accessories

Four drip trays, a sliding tool tray, a heavy-duty caster kit, and aluminum approach ramps are included. Manual and pneumatic jacking beams are available as options.

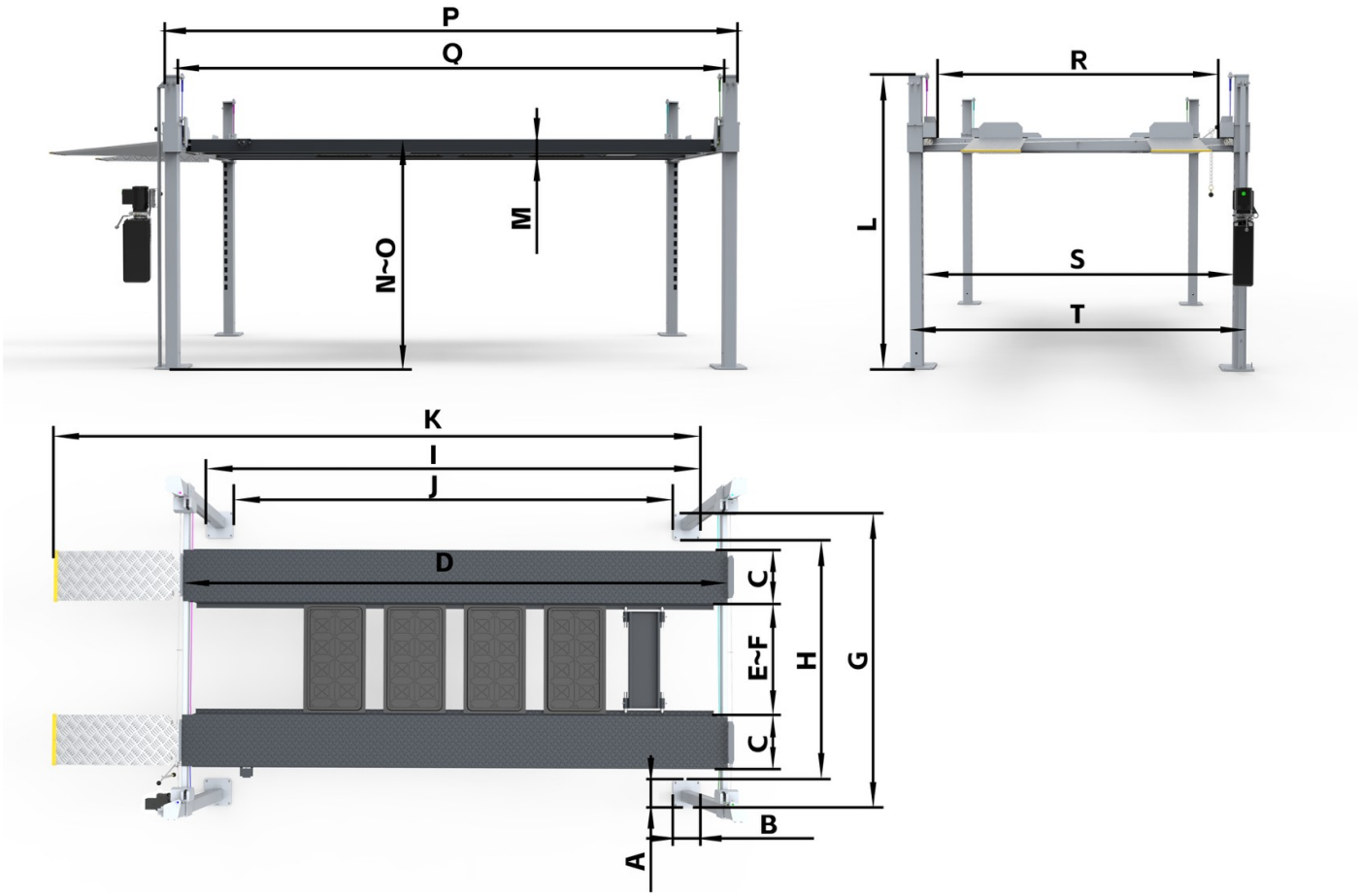
Power and warranty

110V, single-phase, 1 HP motor with a prewired three-prong plug. Quick Lift USA automatically provides a two-year warranty on all non-wearable parts. No registration is required.

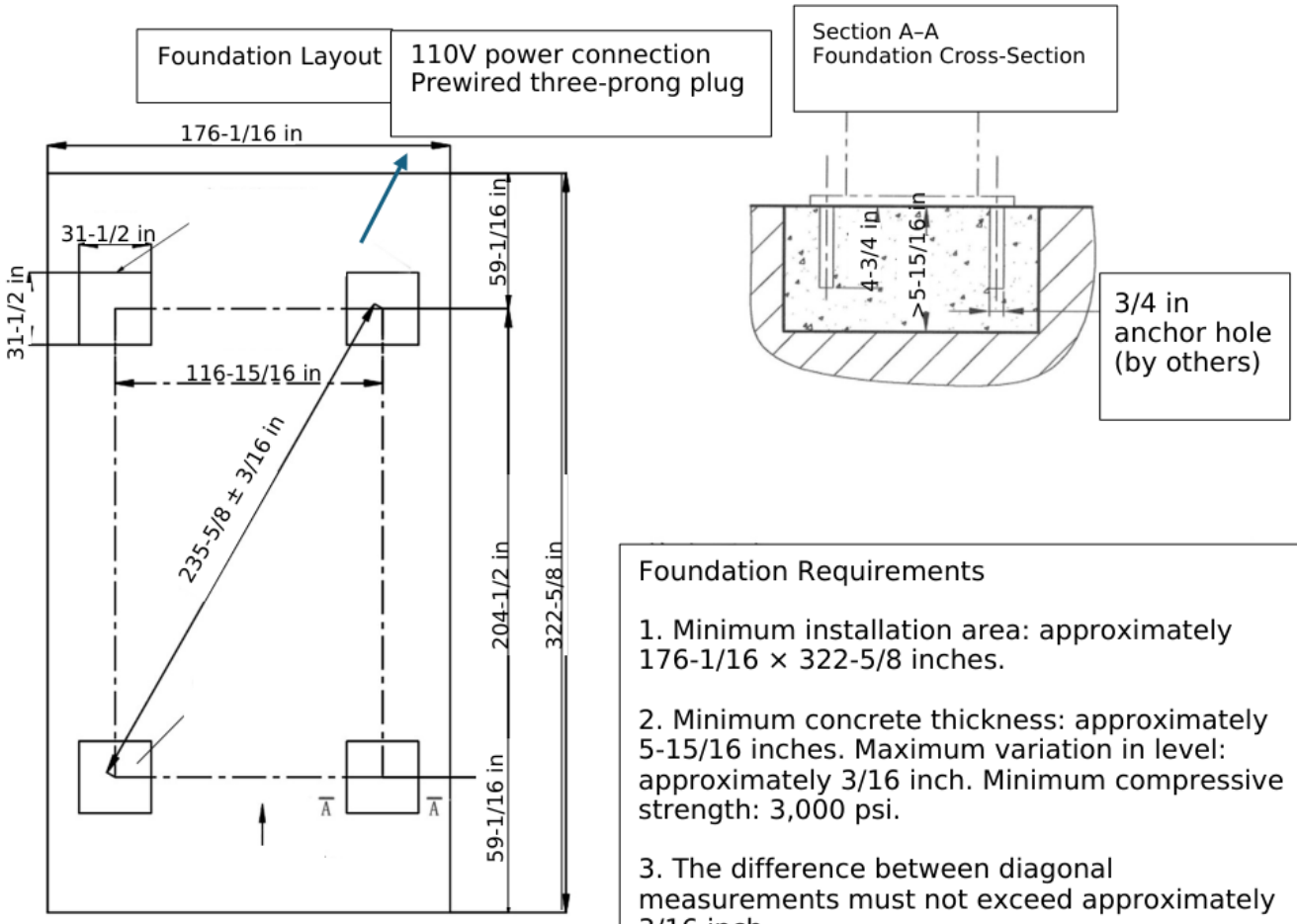
Technical Specifications

SPECIFICATION	VALUE	SPECIFICATION	VALUE
Lifting Capacity	10000LBS	Overall Height – L	107-7/16"
Column Base Plate Width – A	11-13/16"	Runway Height – M	5"
Column Base Plate Length – B	11-13/16"	Minimum Runway Height – N	6-5/16"
Runway Width – C	20"	Maximum Runway Locking Height – O	87-5/8"
Runway Length – D	205"	Maximum Lifting Height	92-3/8"
Inside Distance Between Runways – E	42-1/16"	Maximum Transverse Distance Between Columns – P	209-1/4"
Maximum Runway Spacing – F	48"	Minimum Transverse Distance Between Columns – Q	199-13/16"
Maximum Longitudinal Distance Between Base Plates – G	128-3/4"	Drive-Through Width – R	103"
Minimum Longitudinal Distance Between Base Plates – H	105-3/16"	Minimum Longitudinal Distance Between Columns – S	114"
Maximum Transverse Distance Between Base Plates – I	216-5/16"	Maximum Longitudinal Distance Between Columns – T	123-7/16"
Minimum Transverse Distance Between Base Plates – J	192-11/16"	Power Supply	110V / 60 Hz, single-phase, 1 HP
Overall Length – K	260-9/16"		

Overall Dimensions



Foundation Layout



Foundation Requirements

1. Minimum installation area: approximately 176-1/16 × 322-5/8 inches.

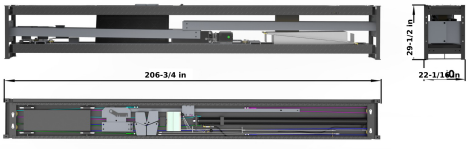
2. Minimum concrete thickness: approximately 5-15/16 inches. Maximum variation in level: approximately 3/16 inch. Minimum compressive strength: 3,000 psi.

3. The difference between diagonal measurements must not exceed approximately 3/16 inch.

4. The lift uses a prewired three-prong plug. Provide a properly grounded 110V receptacle suitable for the motor.

Packing List

Serial -F	Name	Specification	Quantity
F-1	Main Column Assembly	2697-120-120-6	1
F-2	Secondary Column Assembly 1	2697-120-120-6	1
F-3	Secondary Column Assembly 2	2697-120-120-6	2
F-4	Main Runway Assembly	5207-508-127	1
F-5	Secondary Runway Assembly	5207-508-127	1
F-6	Cross Beam Assembly	3166-270-150	2
F-7	Power Unit Bracket Assembly	2595-175	1
F-8	Aluminum Approach Ramp Assembly	1255-480-155	2
F-9	Wheel Stop Assembly	405-205-5	4
F-10	Hook Assembly	400-65	4
F-11	Lock Release Rod Assembly	M12-1310	1
F-12	Lock Release Handle Assembly with 500 mm Chain	M12-1300	1
F-13	Connecting Rod	M12-2755	1
F-14	Cross Beam Lock Release Adjusting Rod (with Rod End Bearing)	M8-2450	2
F-15	Column Bellows Bracket Assembly	269-100-3.75	1
F-16	Runway Bellows Bracket Assembly	125-97-72	1
F-17	Hardware Package	320-235-190(Maximum Component Dimensions)	2
F-18	Cross Beam Cover A	186-286-122	1
F-19	Cross Beam Cover B	186-286-122	1
F-20	Column Cover Plate Assembly A	182-160-16	2
F-21	Column Cover Plate Assembly B	182-160-16	2
F-22	Power Unit	950-350-290	1
F-23	Rolling Tool Tray	930-400-75	1
F-24	Plastic Drip Tray	1050-604-40	4



Installation Tools

1. Hammer drill and drill bits 2. Steel hammer and rubber mallet 3. Level





4. Chalk line 5. Flat lifting sling, 9 ft 10-1/8 in long, 4,409 lb capacity 6. Forklift, 4,409 lb capacity





7. 58-piece multipurpose tool kit (SHIDA)

Use tools that match the supplied metric hardware. Keep the forklift and lifting sling within their rated capacities.

Step 1 — Site Selection

1. Choose a location with enough clearance for the lift, vehicle, installation work, and normal operation. Refer to the dimension and foundation drawings.

2. Inspect the floor for cracks or other defects. The concrete foundation must have a minimum compressive strength of 3,000 psi.

3. Use the dimension and foundation drawings to mark the installation layout with a chalk line and tape measure.

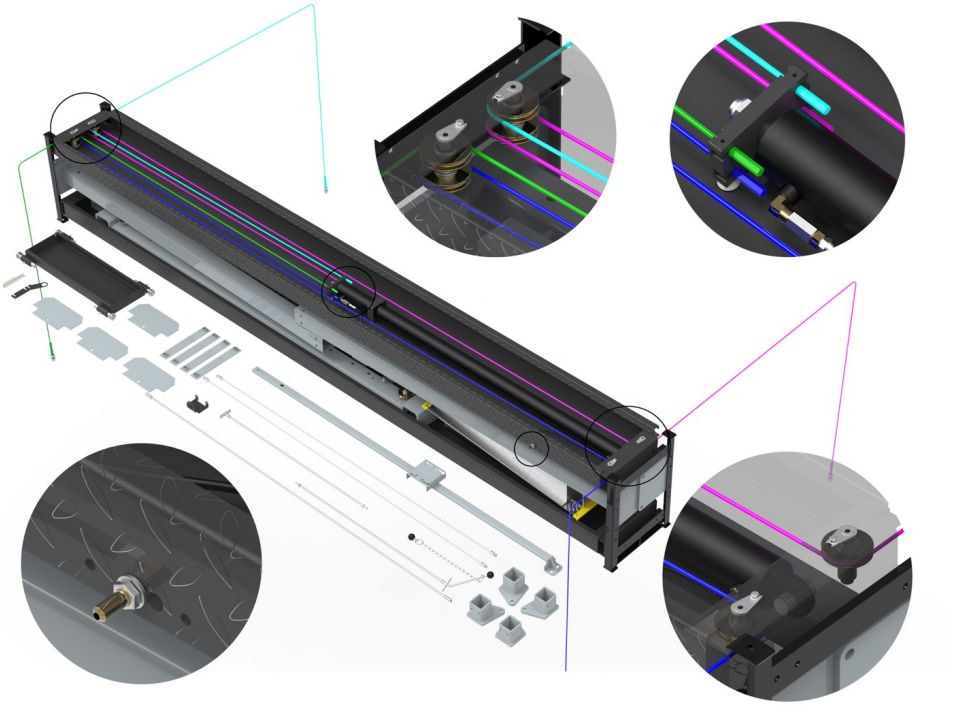
4. Unpack the lift and inspect every component for shipping damage. Use a forklift and the supplied tools.

Move the packaged lift to an open work area with a forklift. Remove the stretch wrap and cardboard with a utility knife. Remove the accessories from the main runway and set them aside. Check the hydraulic hose connections and confirm that the lifting cables are routed correctly.



Step 1 — Unpack the Assemblies

5. After checking the hoses and cables, remove the shipping-frame bolts with a wrench. Lift the main runway with a forklift and lower it onto wooden blocks. Use a flat lifting sling and the forklift to turn the runway over. Remove the remaining components. Support the runways and crossbeams on wooden blocks, leaving room for the forklift. Arrange the components in the work area and check them against the packing list.



Packing List (F)			
Serial-F	Name	Specification	Quantity
F-1	Main Column Assembly	2697-120-120-6	1
F-2	Secondary Column Assembly 1	2697-120-120-6	1
F-3	Secondary Column Assembly 2	2697-120-120-6	2
F-4	Main Runway Assembly	5207-508-127	1
F-5	Secondary Runway Assembly	5207-508-127	1
F-6	Cross Beam Assembly	3166-270-150	2
F-7	Power Unit Bracket Assembly	2595-175	1
F-8	Aluminum Approach Ramp Assembly	1255-480-155	2
F-9	Wheel Stop Assembly	405-205-5	4
F-10	Hook Assembly	400-65	4

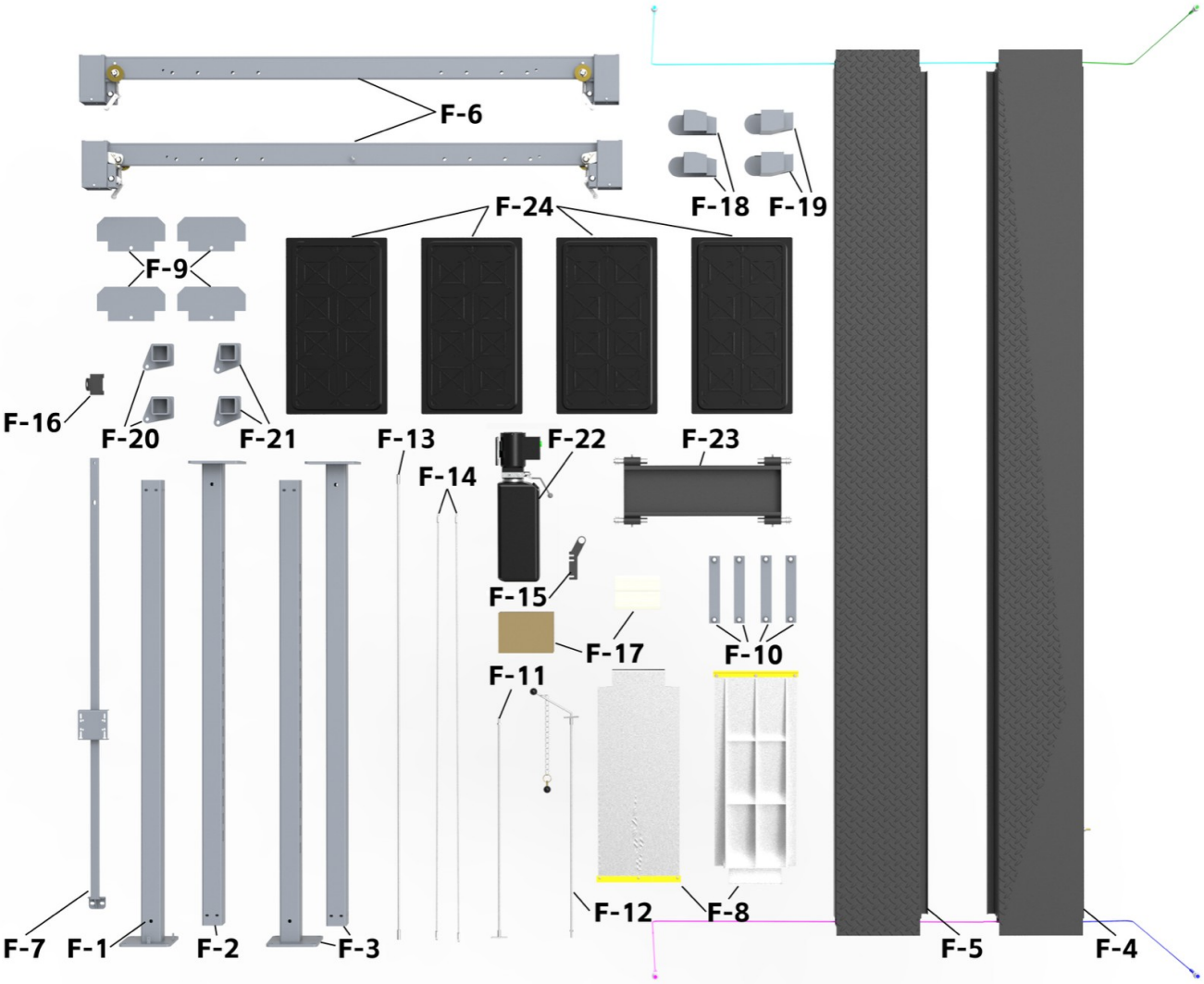
Packing List — Continued

F-11	Lock Release Rod Assembly	M12-1310	1
F-12	Lock Release Handle Assembly with 500 mm Chain	M12-1300	1
F-13	Intermediate Connecting Rod	M12-2755	1
F-14	Cross Beam Lock Release Adjusting Rod (with Rod End Bearing)	M8-2450	2
F-15	Column Bellows Bracket Assembly	269-100-3.75	1
F-16	Runway Bellows Bracket Assembly	125-97-72	1
F-17	Hardware Kit	320-235-190 Maximum Component Dimensions	2
F-18	Cross Beam Protective Cover A	186-286-122	1
F-19	Cross Beam Protective Cover B	186-286-122	1
F-20	Column Cover Plate Assembly A	182-160-16	2
F-21	Column Cover Plate Assembly B	182-160-16	2
F-22	Power Unit	950-350-290	1
F-23	Rolling Tool Tray	930-400-75	1
F-24	Customized Plastic Drip Tray	1050-604-40	4

Tool kit contents

14 pcs 10 mm Drive 6-Point Sockets (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19MM)
1 pc 10 mm Drive Quick-Release Ratchet Handle, 8"
1 pc 10 mm Drive Universal Joint
1 pc Adjustable Wrench, 10"
3 pcs Fully Polished Combination Ratcheting Wrenches (13, 14, 17 mm)
12 pcs Fully Polished Combination Wrenches (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19MM)
9 pcs Extra-Long Ball-End Hex Key Set (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10MM)
1 pc Combination Pliers, 8"
1 pc Long Nose Pliers, 6"
1 pc External Straight Circlip Pliers (German Type), 5"
1 pc Internal Straight Circlip Pliers (German Type), 5"
3 pcs Series A Slotted Screwdrivers (3.2×75, 5×100, 6×38MM)
4 pcs Series A Phillips Screwdrivers (#0×75, #1×100, #2×38, #2×150MM)
1 pc Magnetic Pick-Up Tool, 380 mm
1 pc Utility Knife with Plastic Handle, 18×100 mm
1 pc Tape Measure (8-segment blade), 5 m × 19 mm
23 pcs Metric & Imperial Feeler Gauge Set (0.02–1.00 mm)
1 pc Steel Ruler, 300 mm
1 pc Fiberglass-Handle Ball Peen Hammer, 1 lb

Supplied Assemblies (F)



Hardware List (C)

ITEM	PART	SPECIFICATION	QTY	INSTALLATION LOCATION
C-1	Anchor Bolt	M19-140mm	16	Column Base Plate
C-2	M8-30 Hex Head Bolt	GB/T5781C(4.8)	4	Lock Release Rod
C-3	M8 Self lock Nut	GB/T927-88	4	Lock Release Rod
C-4	M8-35 Hex Head Bolt	GB/T5781C(4.8)	4	Power Unit
C-5	Ø8 Flat Washer	GB 96-85-C	8	Power Unit
C-6	Ø8 Spring Washer	GB 93-87	4	Power Unit
C-7	M8 Hex Nut	GB/T41-86(4.8)	4	Power Unit
C-8	Rubber Vibration Pad	160-47-5	2	Power Unit
C-9	M8-25 Hex Head Bolt	GB/T5781C(4.8)	1	Power Unit Bracket
C-10	Ø8 Flat Washer	GB 95-85-C	1	Power Unit Bracket
C-11	Ø8 Spring Washer	GB 93-87	1	Power Unit Bracket
C-12	M6-15 Phillips Pan Head Screw	GB 818-85 H	4	Cross Beam Cover Fastening Position
C-13	Ø6 Flat Washer	GB 95-85-C	4	Cross Beam Cover Fastening Position
C-14	Ø6 Spring Washer	GB 93-87	4	Cross Beam Cover Fastening Position
C-15	M10 Grease Fitting	M10-1	4	Runway Cable Pulley Shaft Lubrication Point
C-16	M6 Grease Fitting	M6 Flat Head Screw	4	Cross Beam Cable Pulley Shaft Lubrication Point
C-17	M12-30 Hex Head Bolt	GB/T5781C(4.8)	16	Column Cover Plate
C-18	Ø12 Flat Washer	GB 95-85-C	16	Column Cover Plate
C-19	Ø12 Spring Washer	GB 93-87	16	Column Cover Plate
C-20	M18-100mm Hex Head Bolt	GB/5780/5786-86	8	Runway-to-Cross Beam Connecting Bolts
C-21	Ø18 Flat Washer	GB 95-85-C	16	Runway-to-Cross Beam Connecting Bolts
C-22	Ø18 Spring Washer	GB 93-87	8	Runway-to-Cross Beam Connecting Bolts
C-23	M18 Hex Nut	GB/T41-86(4.8)	8	Runway-to-Cross Beam Connecting Bolts

Hardware List — Continued

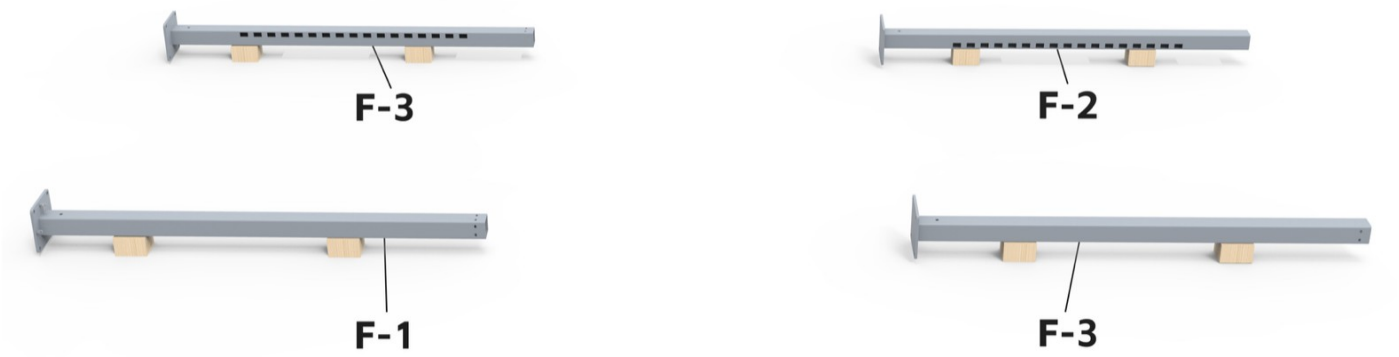
ITEM	PART	SPECIFICATION	QTY	INSTALLATION LOCATION
C-24	Power Unit Hydraulic Hose Fitting	9/16 UNC Grease Fitting (Straight / Flat Type)	1	Power Unit Hydraulic Hose Connector
C-25	Power Unit Sealing Washer	Ø14 Copper Washer	2	Power Unit Fitting
C-26	Brake Rubber Pad		2	Runway
C-27	Hydraulic Hose	L=2340- SAE Fittings 9/16	1	Hydraulic Hoses from Power Unit to Column (One Straight, One 90° Elbow Swivel Fitting)
C-28	Round Slotted Shim		20	
C-29	Cable Tie		10	
C-30	M8-30 Hex Head Bolt	GB/T5781C(4.8)	2	Runway Bellows Bracket Mounting Position
C-31	Ø8 Flat Washer	GB 95-85-C	4	Runway Bellows Bracket Mounting Position
C-32	Ø8 Spring Washer	GB 93-87	2	Runway Bellows Bracket Mounting Position
C-33	M8 Hex Nut	GB/T41-86(4.8)	2	Runway Bellows Bracket Mounting Position
C-34	Bellows Connector	AD34.5-M36	2	Column Bellows Bracket and Runway Bellows Bracket
C-35	Bellows	L=2100 PE--AD34.5	1	Connecting the Column Bellows Bracket and the Runway Bellows Bracket
C-36	M8 Lock Release Adjusting Rod (with M8 Rod End Bearing)	M8-261	2	Cross Beam Lock Release Adjustment
C-37	Cross Beam Stop Block A	270-40/40-8	8	Cross Beam-to-Column Stop Position
C-38	Cross Beam Stop Block B	270-40/24-8	4	Cross Beam-to-Column Stop Position
C-39	Cross Beam Stop Block C	270-40/24-8	2	Cross Beam-to-Column Stop Position
C-40	Cross Beam Stop Block D	270-40/24-8	2	Cross Beam-to-Column Stop Position

Hardware Kit (C)



Steps 2–3 — Columns and Crossbeams

Step 2: Position the main column (F-1), secondary column 1 (F-2), and secondary column 2 (F-3) on the ground with the matching sides facing each other. Support the columns on wooden blocks and align them as shown.



Step 3: Use a forklift to position the crossbeam (F-6). Fit the sleeves over the columns and engage the safety latches with the lock ladders. Keep both ends of the crossbeam at the same height and orient the eye bolts as shown.

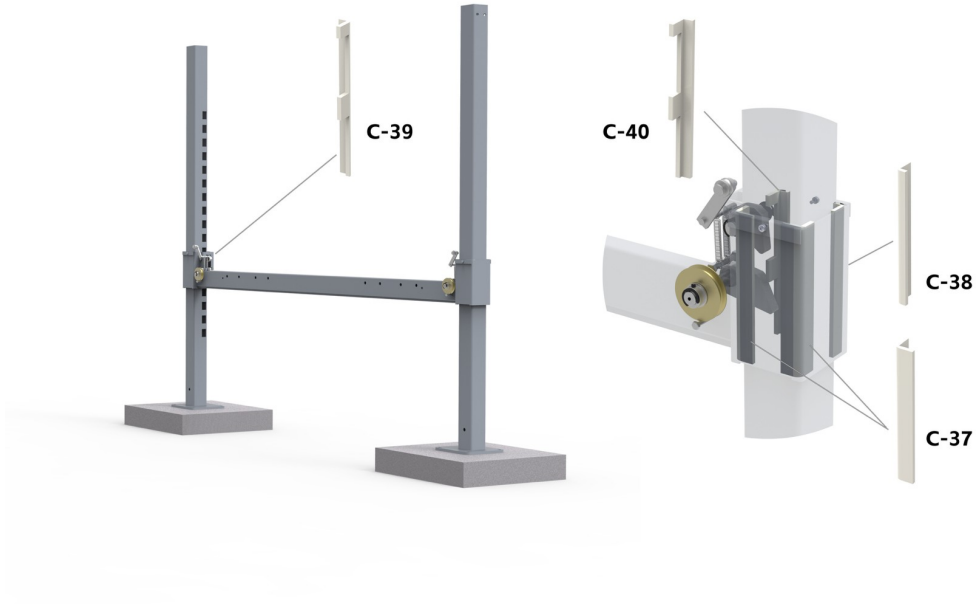


Steps 4–5 — Upright Assemblies

Step 4: Use a forklift to raise the assemblies upright and position them on the foundation layout lines.

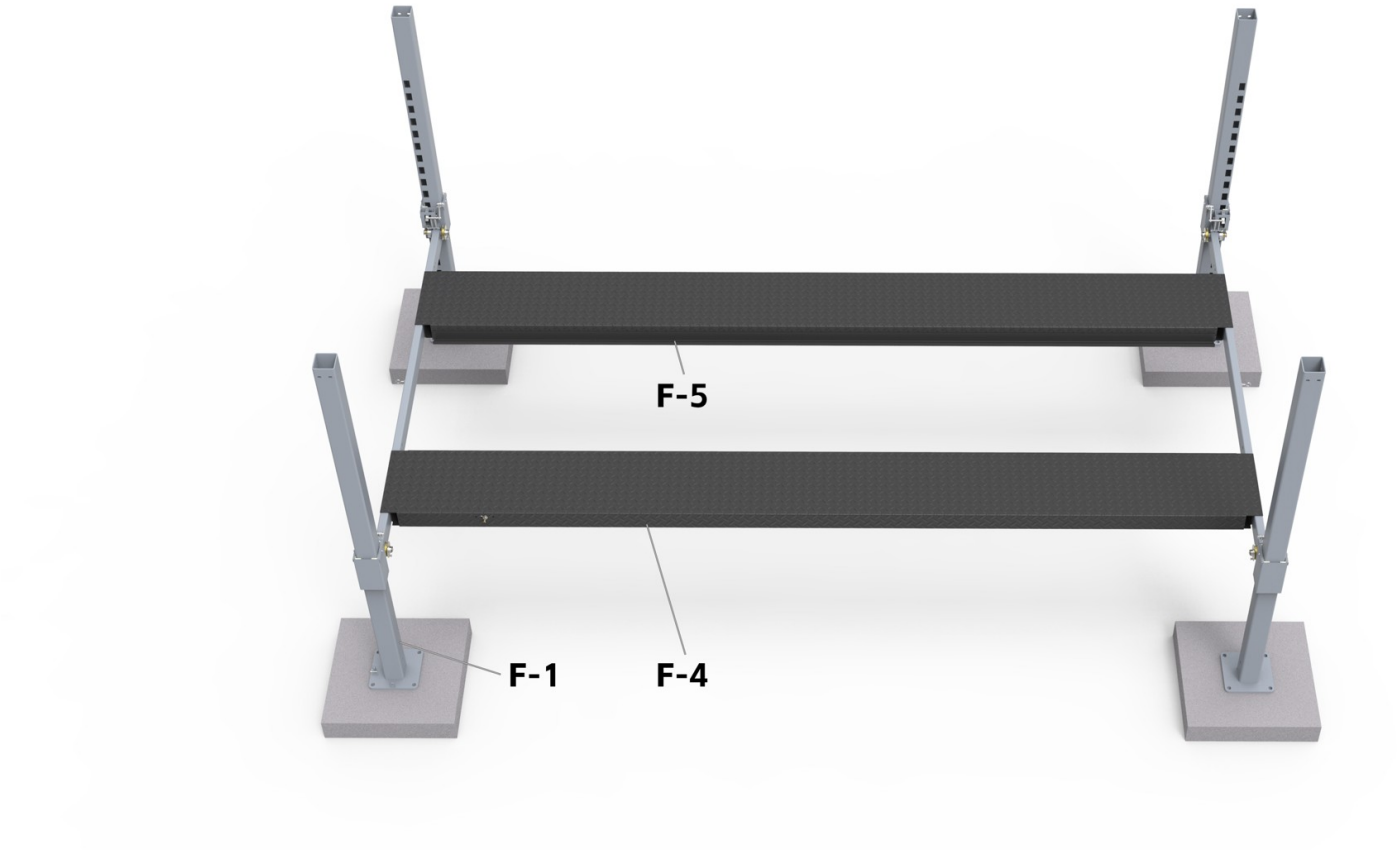


Step 5: Fit the crossbeam stop blocks (C-37, C-38, C-39, and C-40) between the columns and crossbeam sleeves as shown. Secure them with the stop-block brackets using the supplied screwdriver.



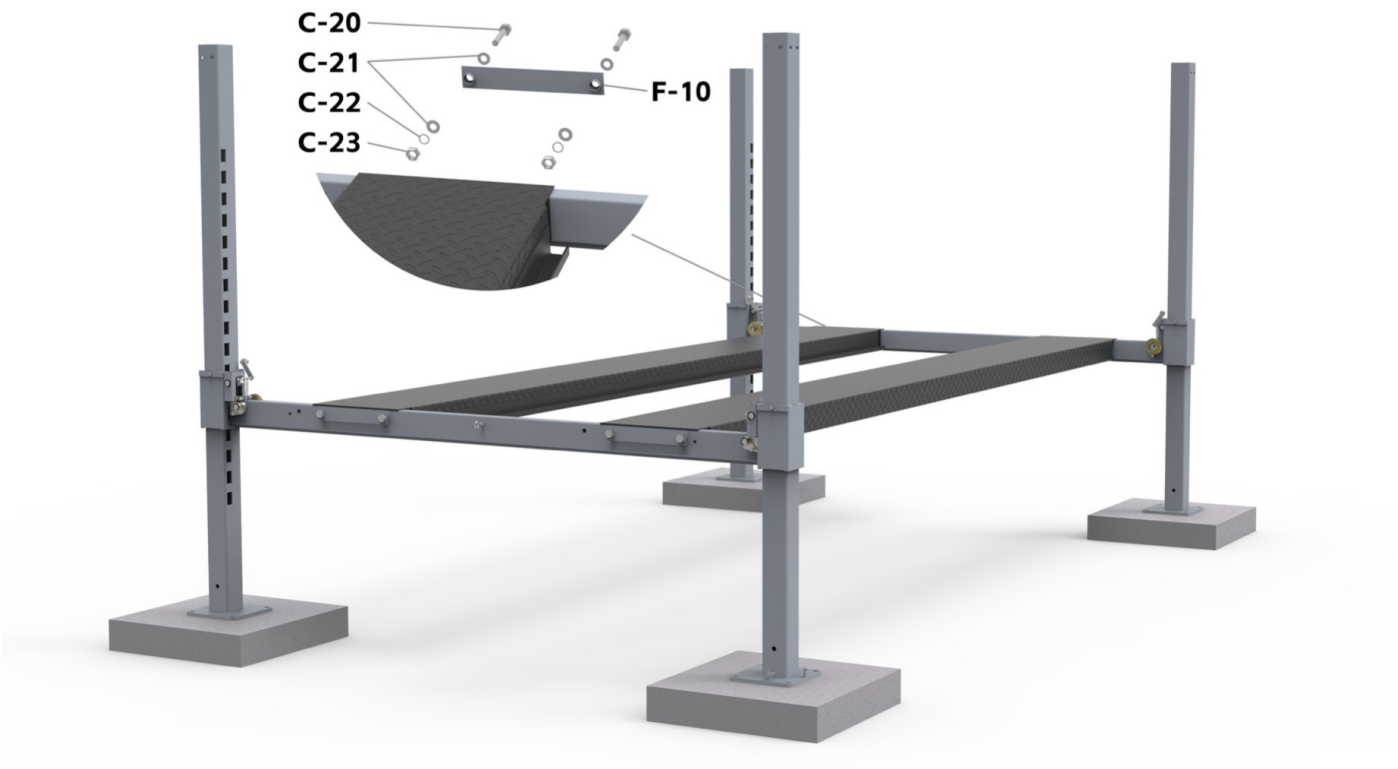
Step 6 — Position the Runways

Step 6: Use a forklift to place the main runway (F-4) and secondary runway (F-5) onto the crossbeams.



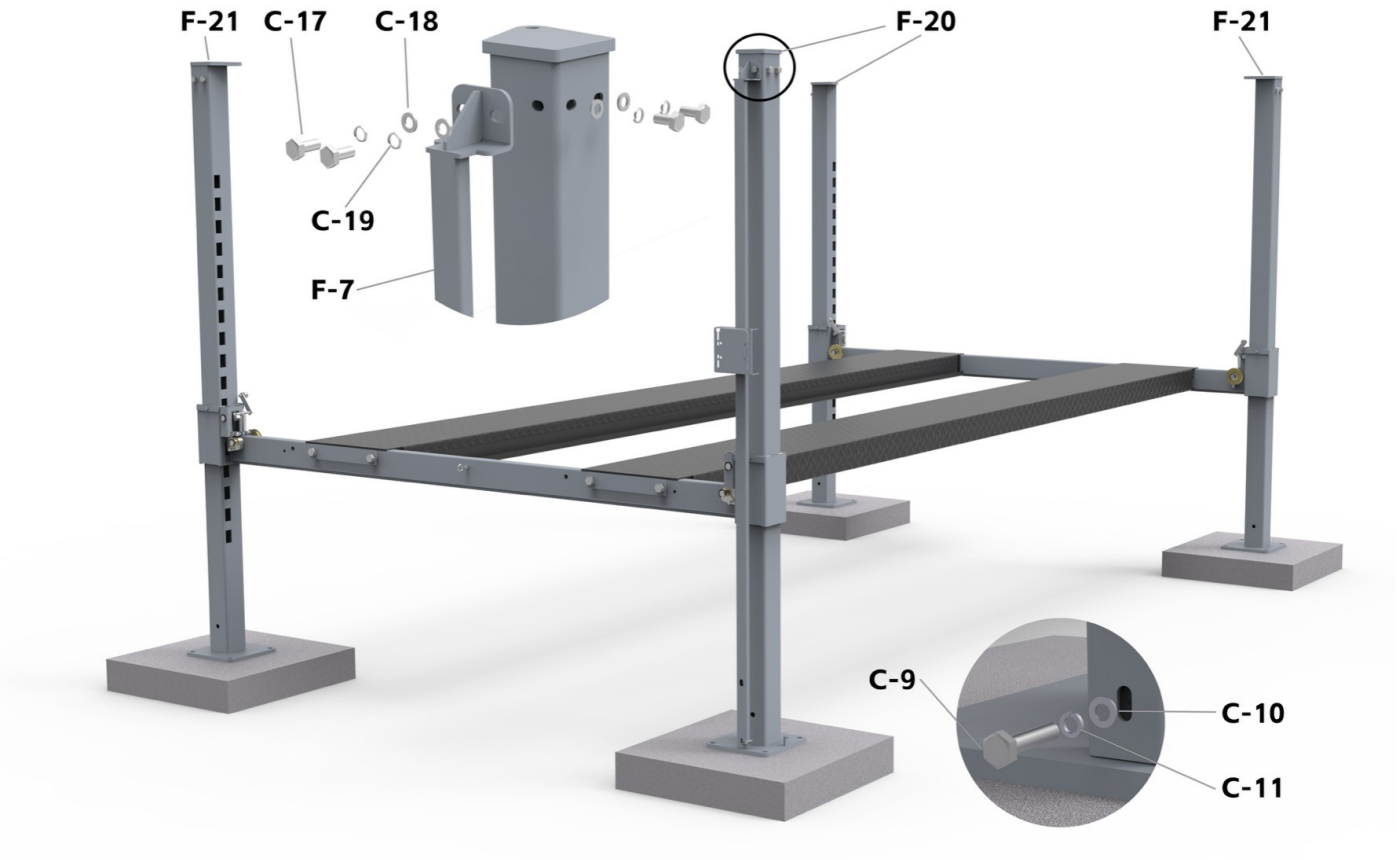
Step 7 — Secure the Runways

Step 7: Install the hook assemblies (F-10). Secure the runways to the crossbeams with M18×100 hex-head bolts (C-20), Ø18 flat washers (C-21), Ø18 spring washers (C-22), and M18 hex nuts (C-23). Use the supplied retaining-ring pliers and open-end wrenches.



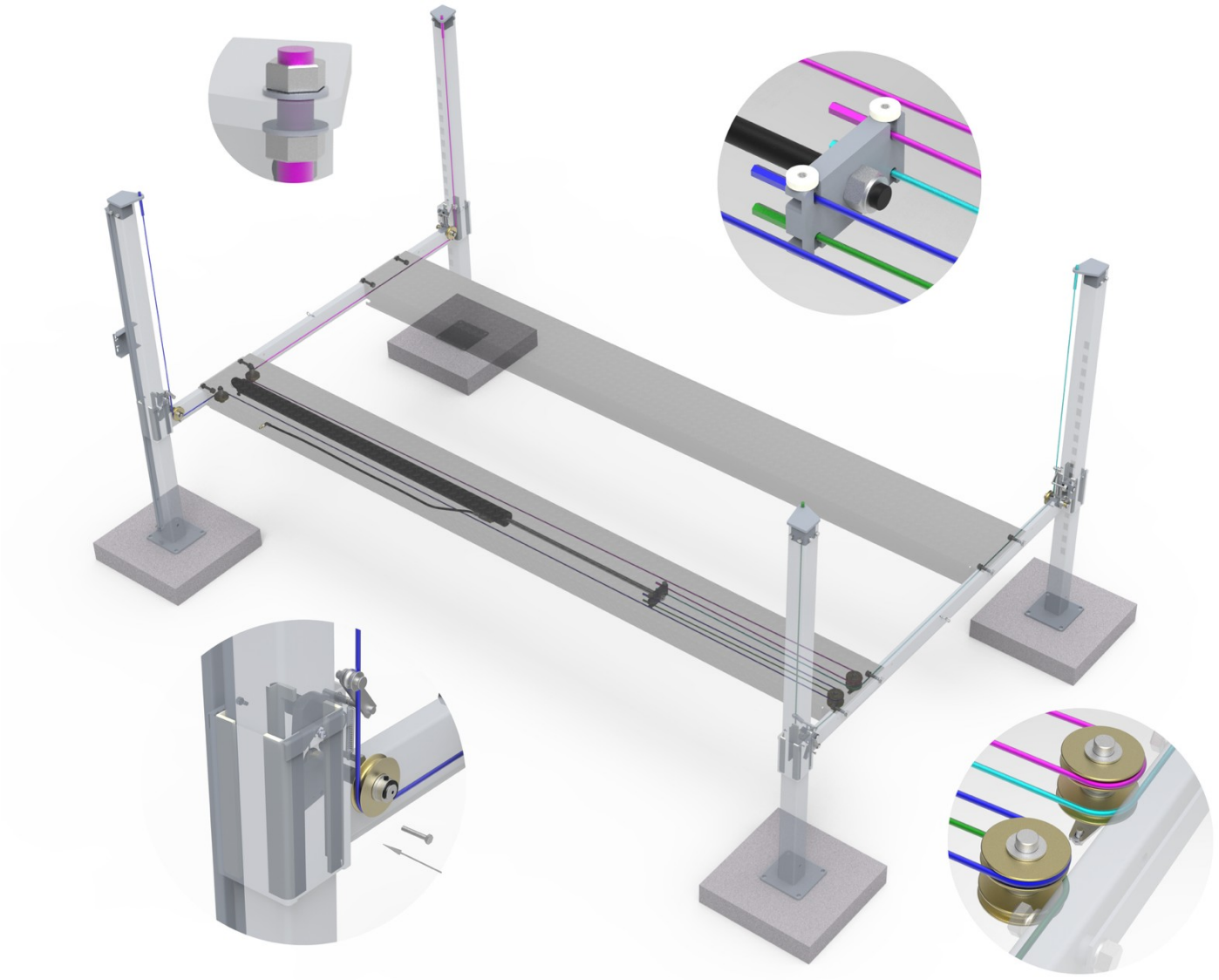
Step 8 — Covers and Power Bracket

Step 8: Install the column cover plates (F-20 and F-21) and power-unit bracket (F-7). Use M12×30 hex-head bolts (C-17), Ø12 flat washers (C-18), and Ø12 spring washers (C-19). Choose the correct cover plate for each column. Secure the bottom of the power-unit bracket with the M8×25 hex-head bolt (C-9), Ø8 flat washer (C-10), and Ø8 spring washer (C-11). Use open-end wrenches and an adjustable wrench.



Step 9 — Route the Lifting Cables

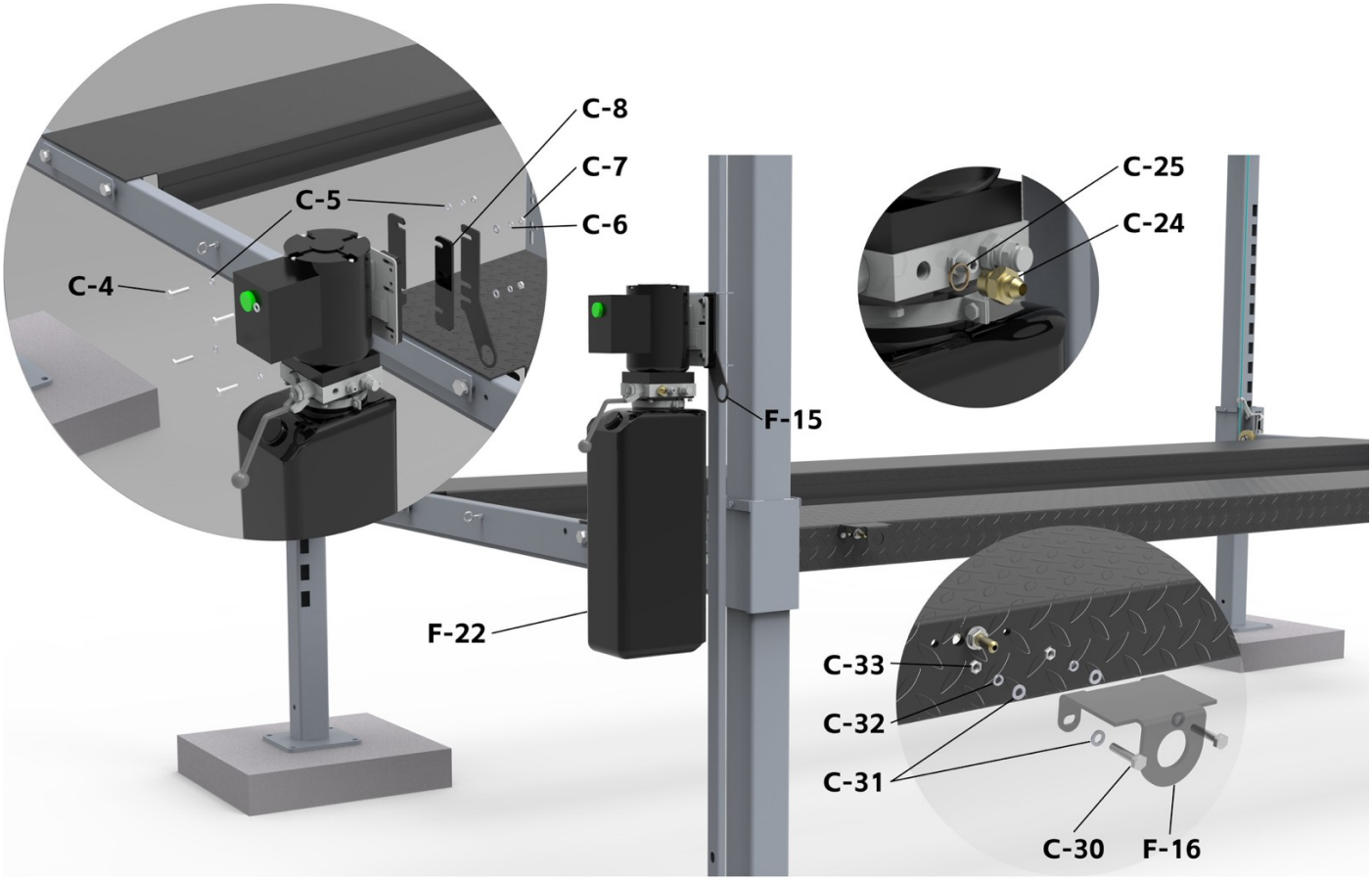
Step 9: Route the main runway’s lifting cables through the cable and guide pulleys, then secure them to the column cover plates. Use retaining-ring pliers and open-end wrenches.



Step 10 — Install the Power Unit

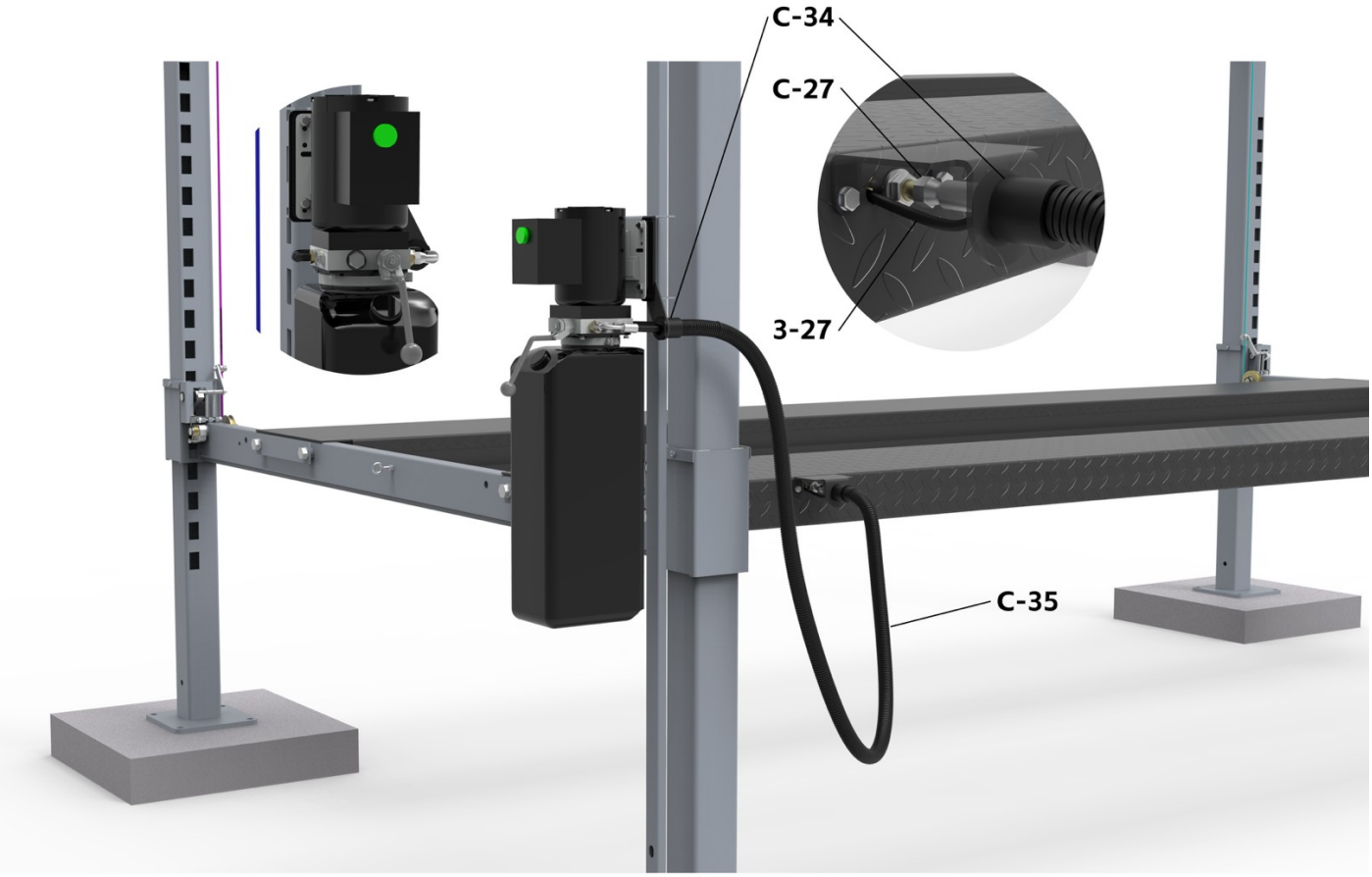
Step 10: Mount the power unit (F-22) on the main column. Install the hydraulic fittings and protective sleeves shown in the drawing.

Parts required:
Power Unit (F-22), M8×35 Hex Head Bolts (C-4), Ø8 Flat Washers (C-5), Ø8 Spring Washers (C-6), M8 Hex Nuts (C-7), Rubber Vibration Pads (C-8), Hydraulic Hose Fittings (C-24), Ø14 Copper Washers (C-25), Hydraulic Hoses (C-27), Column Bellows Brackets (F-15), Runway Bellows Brackets (F-16), M8×30 Hex Head Bolts (C-30), Ø8 Flat Washers (C-31), Ø8 Spring Washers (C-32), M8 Hex Nuts (C-33), Bellows Connectors (C-34), and Bellows (C-35). (Use the open-end wrenches and adjustable wrench provided in the tool kit.)



Step 11 — Power and Hydraulic Oil

Step 11: Fill the hydraulic reservoir with N32 or N46 hydraulic oil. Connect the prewired three-prong plug to a properly grounded 110V receptacle. The motor is single-phase and rated at 1 HP.



Step 12 — Manual Lock Release

Step 12: Install the manual lock-release components. Use open-end wrenches and an adjustable wrench.

Required components

Lock Release Handle Assembly with 500 mm Chain (F-12), including a plastic ball, Ø20–40 lock release rod stop collar, and M12 hex nut

Lock Release Rod Assembly (F-11), including a Ø20–40 lock release rod stop collar and M12 hex nut

Intermediate Connecting Rod (F-13)

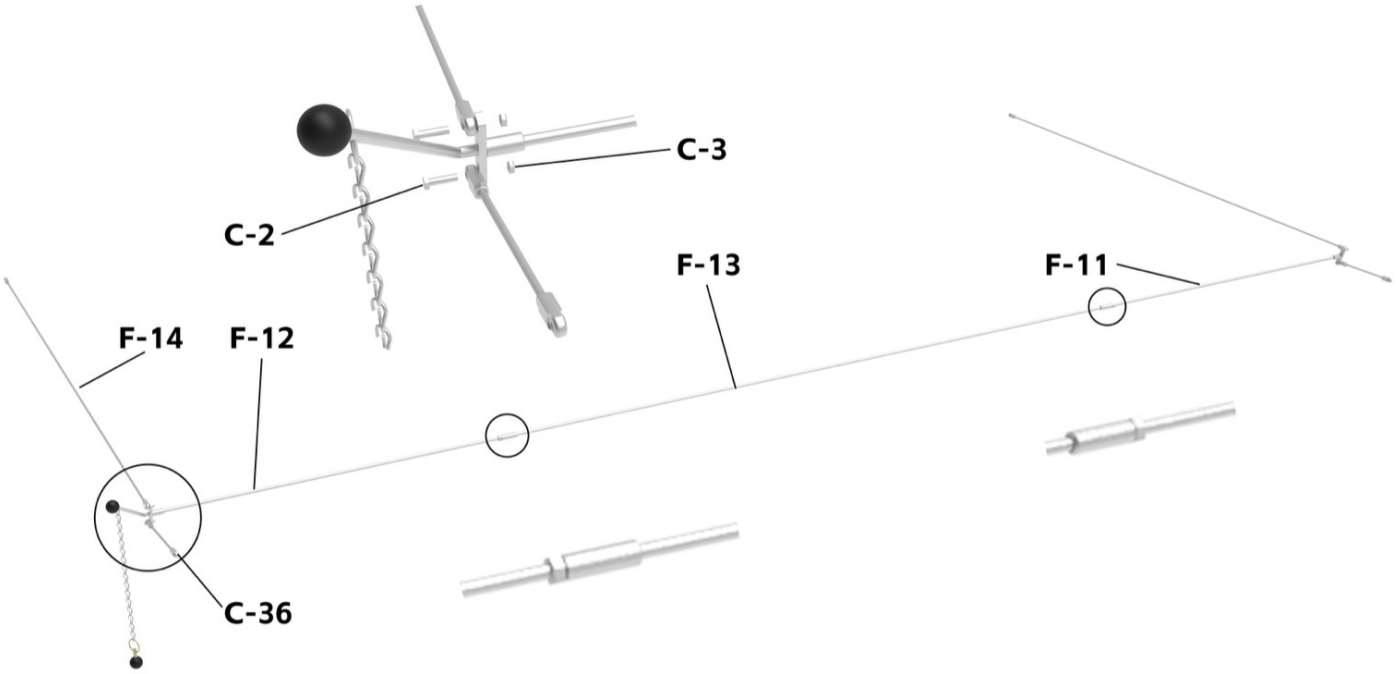
M8×30 Hex Head Bolts (C-2)

M8 Nylon Lock Nuts (C-3)

M8×261 Cross Beam Safety Lock Adjusting Rod (C-36)

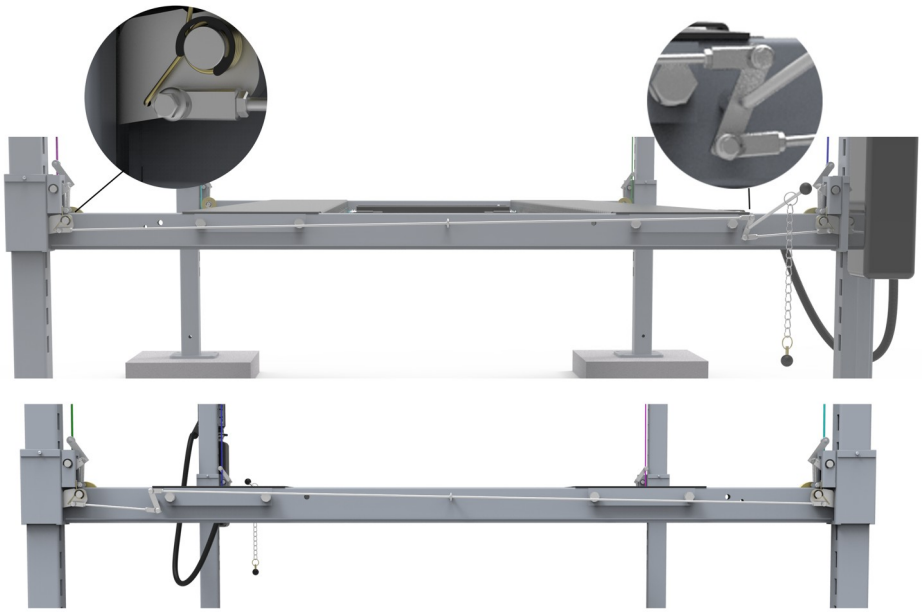
M8×2450 Cross Beam Safety Lock Adjusting Rod (F-14), including two rod end bearings and two hex nuts

Step 12 — Installation Locations

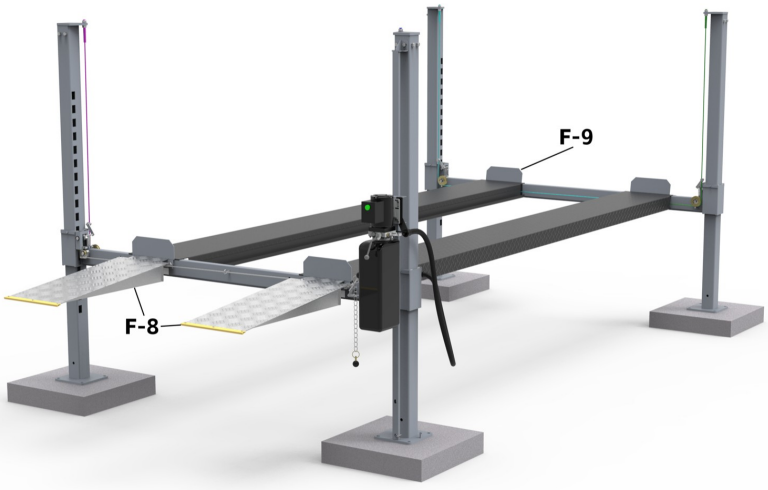


Steps 13–14 — Ramps and Initial Test

Step 13: Install the approach ramps (F-8) and wheel stops (F-9) using a rubber mallet.

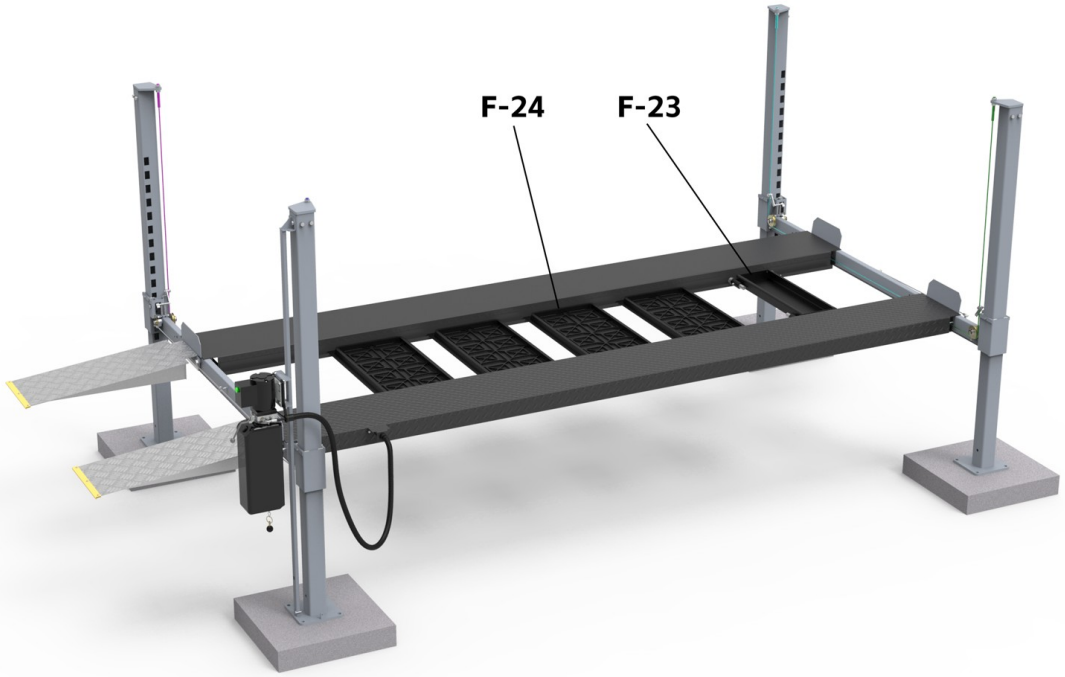


Step 14: Test the unloaded lift by briefly pressing the UP button. Confirm that every cable remains seated in its pulley and that the safety locks engage and release correctly. Install the tool tray (F-23) and drip trays (F-24).

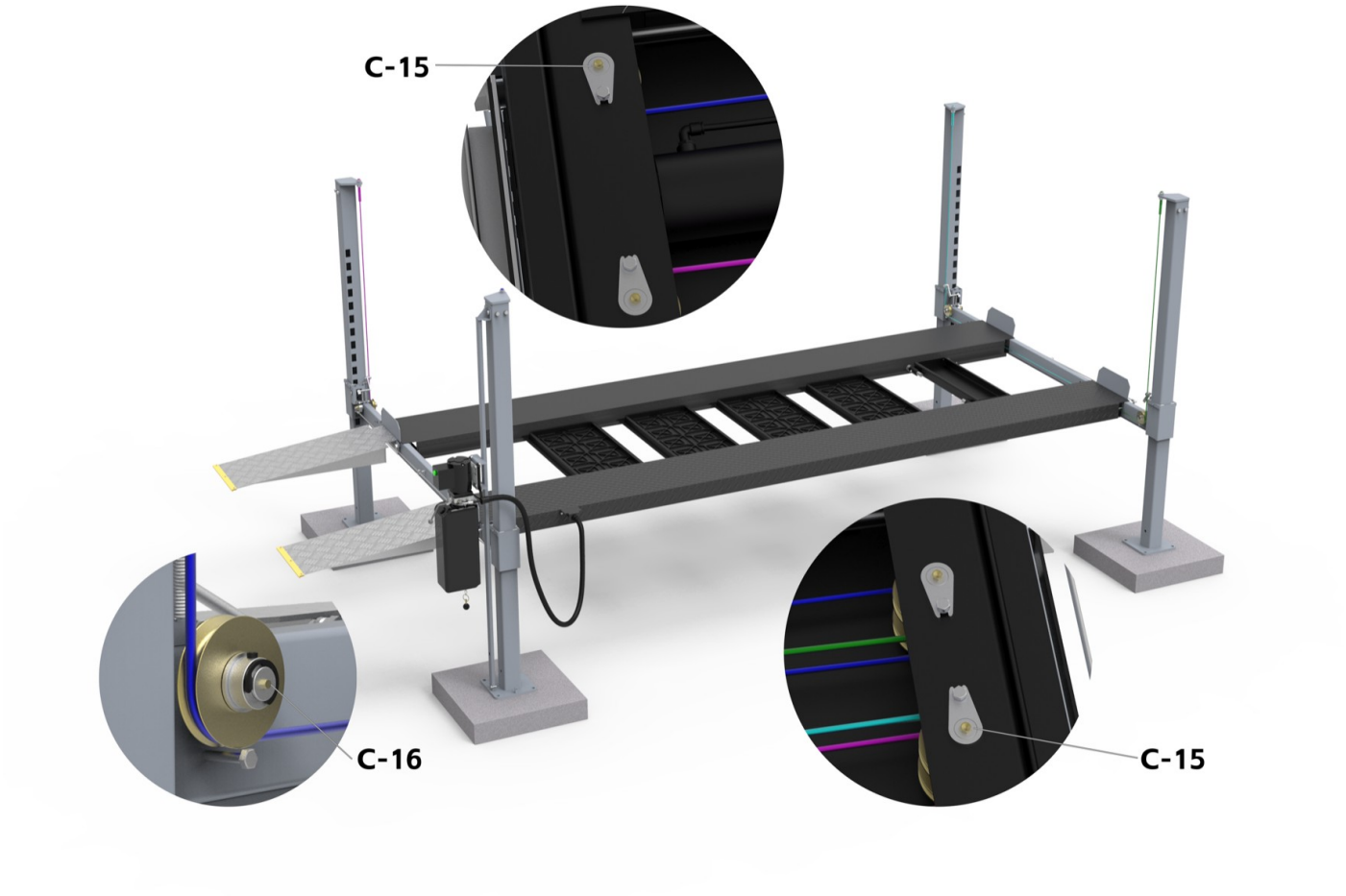


Step 15 — Install Grease Fittings

Step 15: Install the grease fittings (C-15 and C-16), then grease the lubrication points.

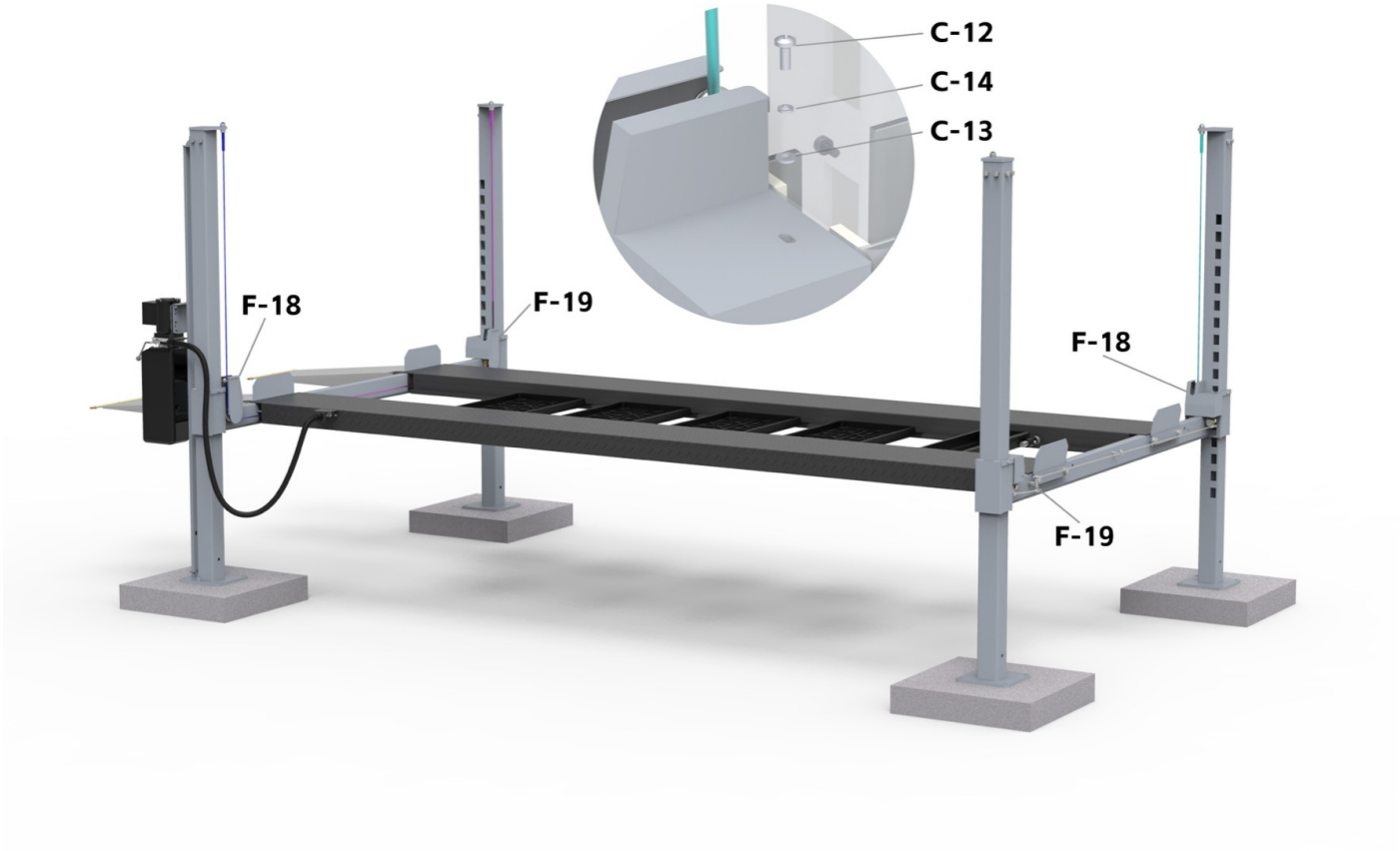


Step 15 — Lubrication Locations



Step 16 — Install Crossbeam Covers

Step 16: Install the crossbeam covers with M6×15 Phillips pan-head screws (C-12), Ø6 flat washers (C-13), and Ø6 spring washers (C-14). Use the supplied screwdriver.

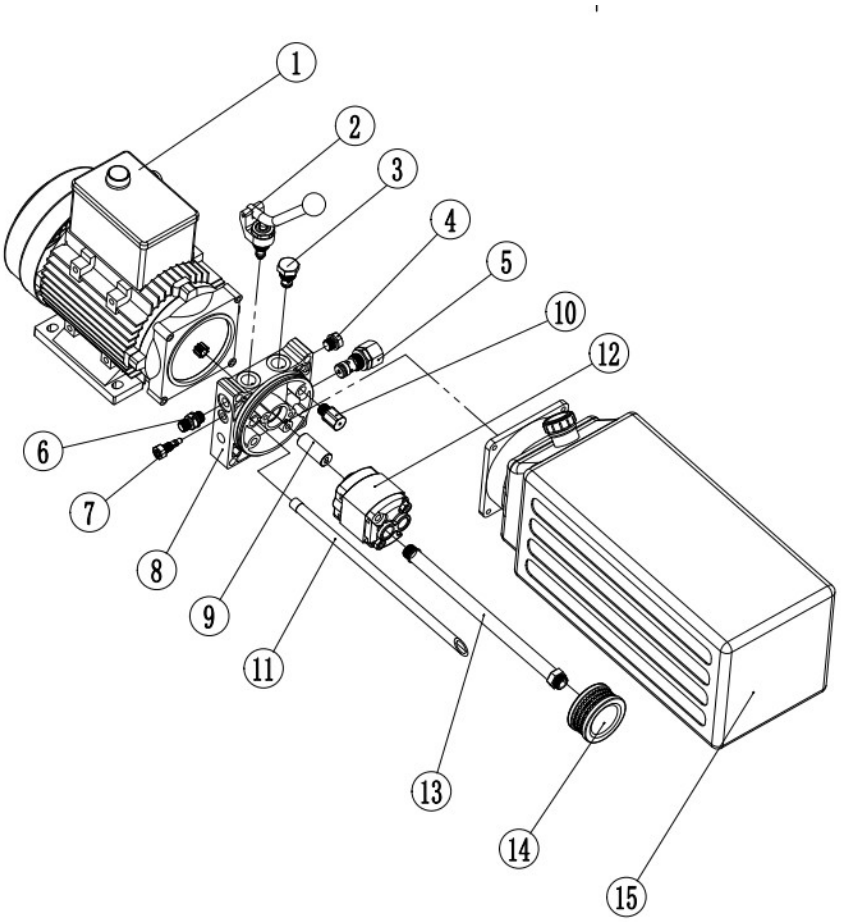


Step 17 — Level and Anchor the Lift

Step 17: Check that the columns are plumb and the runways are level. Adjust them with the round slotted shims. After leveling, drill the anchor holes and secure the lift with anchor bolts (C-1). Apply all labels, remove oil residue, clean the work area, and put the tools away. Use a steel hammer, level, and hammer drill.

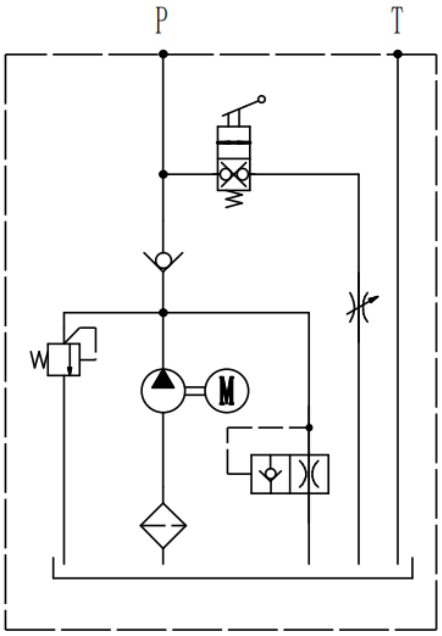


Power Unit Components



No.	Name	Quantity	No.	Name	Quantity
1	Electric Motor	1	9	Coupling	1
2	Lowering Valve	1	10	Cushion Valve	1
3	Check Valve	1	11	Return Hose	1
4	Hex Head Plug	1	12	Gear Pump	1
5	Relief Valve	1	13	Suction Hose	1
6	Pipe Fitting	1	14	Suction Filter	1
7	Flow Control Adjusting Screw	1	15	Oil Reservoir	1
8	Main Valve Block	1			

Hydraulic Operation



Raising the lift

Pressing the UP button starts the motor and gear pump. Oil passes through the filter, pump, and check valve into the hydraulic cylinder, raising the lift.

Releasing the UP button stops the motor and pump. The check valve and lowering valve maintain hydraulic pressure. Lower the runways onto the mechanical safety locks before leaving the lift raised.

Lowering the lift

Raise the runways slightly to take the load off the safety locks. Disengage the locks with the manual release, then press the lowering-valve handle. Release the handle to stop lowering.

The flow-control valve adjusts lowering speed. Turning it inward slows the descent; turning it outward increases the speed.

Pressure and Power Unit Care

Factory pressure setting

The power unit is factory-set to approximately 2,611–2,901 psi. The relief valve limits system pressure and also controls the pressure setting. Do not adjust it unnecessarily. Any required adjustment should be performed by a qualified service technician.

Operating precautions

4. A cushion valve allows the power unit to start without a load, reducing startup noise and helping extend motor and pump life.

5. The supplied motor operates on 110V, single-phase power and is prewired with a three-prong plug. Do not change the motor wiring.

6. Connect the lift to a properly grounded 110V receptacle suitable for the motor. Have a qualified electrician address any power-supply or electrical problem.

7. Change the hydraulic oil as needed, depending on use and oil condition. Use ISO 46 hydraulic oil.

Power Unit Troubleshooting

Disconnect power before service. Hydraulic and electrical repairs should be performed by qualified personnel.

SYMPTOM	POSSIBLE CAUSE	CHECKS AND CORRECTIVE ACTION
Lift does not raise	Motor, cushion valve, or gear pump	Check power and motor operation. Have a qualified electrician inspect electrical faults. Inspect the cushion valve O-ring and replace it if damaged. A qualified technician can briefly test pump output at the disconnected cylinder supply fitting; replace the pump if no oil is delivered.
Lift drifts down	Lowering valve, check valve, hose, or cylinder	Check for external leaks. Repair leaking hoses or fittings. Inspect the lowering valve and replace it if leaking. If no leak is visible, clean and reinstall the lowering valve. Disassemble and clean the check valve with an approved cleaning solvent, then reassemble it. Inspect the cylinder piston seals and replace worn or damaged seals.
Power unit makes unusual noise	Hydraulic oil or motor	Check that oil fills approximately four-fifths of the reservoir. Add the specified hydraulic oil or No. 35 machine oil as needed. Have a qualified technician locate the source of abnormal motor noise and replace the motor if necessary.
Lift lowers too quickly	Check valve, lowering valve, or hose	Disassemble and clean the check valve and lowering valve with an approved cleaning solvent, then reinstall them. Inspect hoses and fittings for leaks; repair or replace affected components.

Electrical Connection

The QL10K is supplied with a 110V, single-phase, 1 HP motor and a prewired three-prong grounded plug. Connect it to a properly grounded receptacle with appropriate electrical protection. Never remove the grounding prong, modify the plug, or rewire the motor. Disconnect power before service. Have a qualified electrician perform electrical repairs.

Supplied power configuration

ITEM	CONFIGURATION
Motor	110V, single-phase, 1 HP
Power connection	Prewired three-prong grounded plug

Initial Setup and Operation

Before loading a vehicle

Test the lift without a load. Confirm that every cable stays seated in its pulley, the runways move evenly, the hydraulic system is free of leaks, and all safety locks engage and release correctly.

Positioning the vehicle

Confirm that the vehicle is within the 10,000 lb capacity and fits the runways. Position it securely on the lift. Apply the parking brake and use wheel chocks.

Raising and locking

Keep people and objects clear. Raise the vehicle to a designated locking position, then lower the runways onto the mechanical safety locks. Confirm that all four locks are fully engaged before working around the raised vehicle.

Lowering from the locks

Raise the runways slightly to unload the locks. Use the manual release to disengage them, then press the lowering-valve handle. Release the handle to stop lowering. Keep the area clear throughout the cycle.

Troubleshooting

No.	Fault	Corrective Action
1	Motor Does Not Run	Check that power is available and the plug is connected. Have a qualified electrician inspect loose or damaged electrical connections.
2	Motor Runs but No Hydraulic Pressure Is Generated	Have a qualified electrician inspect the motor. Do not interchange motor leads. Check whether the suction hose inside the oil reservoir has disconnected.
3	Lift Slowly Lowers After Raising	Clean the power unit’s check valve and lowering valve.
4	Safety Locks Do Not Engage Properly	Check the safety latch positions and column alignment. Inspect the latch return springs for proper operation.
5	Motor or Electrical Components Malfunction	Disconnect power immediately. Have a qualified electrician inspect and repair or replace the affected components.

Inspection and Maintenance

Daily checks

1. Confirm that every safety lock engages correctly during operation.

2. Check that the safety locks release properly and that the column lock ladders are in good condition.

3. Inspect hydraulic fittings, air fittings, and hoses for leaks.
4. Check the lifting cables for kinks, broken strands, and loose connections.
5. Watch for cable wear as the lift raises and lowers.
6. Confirm that all retaining rings are seated securely.
7. Check bolts, nuts, and screws. Tighten any loose fasteners.
8. Inspect electrical wiring and switches for damage.
9. Inspect the concrete around each anchor bolt for damage.
10. Grease the cable pulley shafts regularly and at least once a year after the lift enters service.

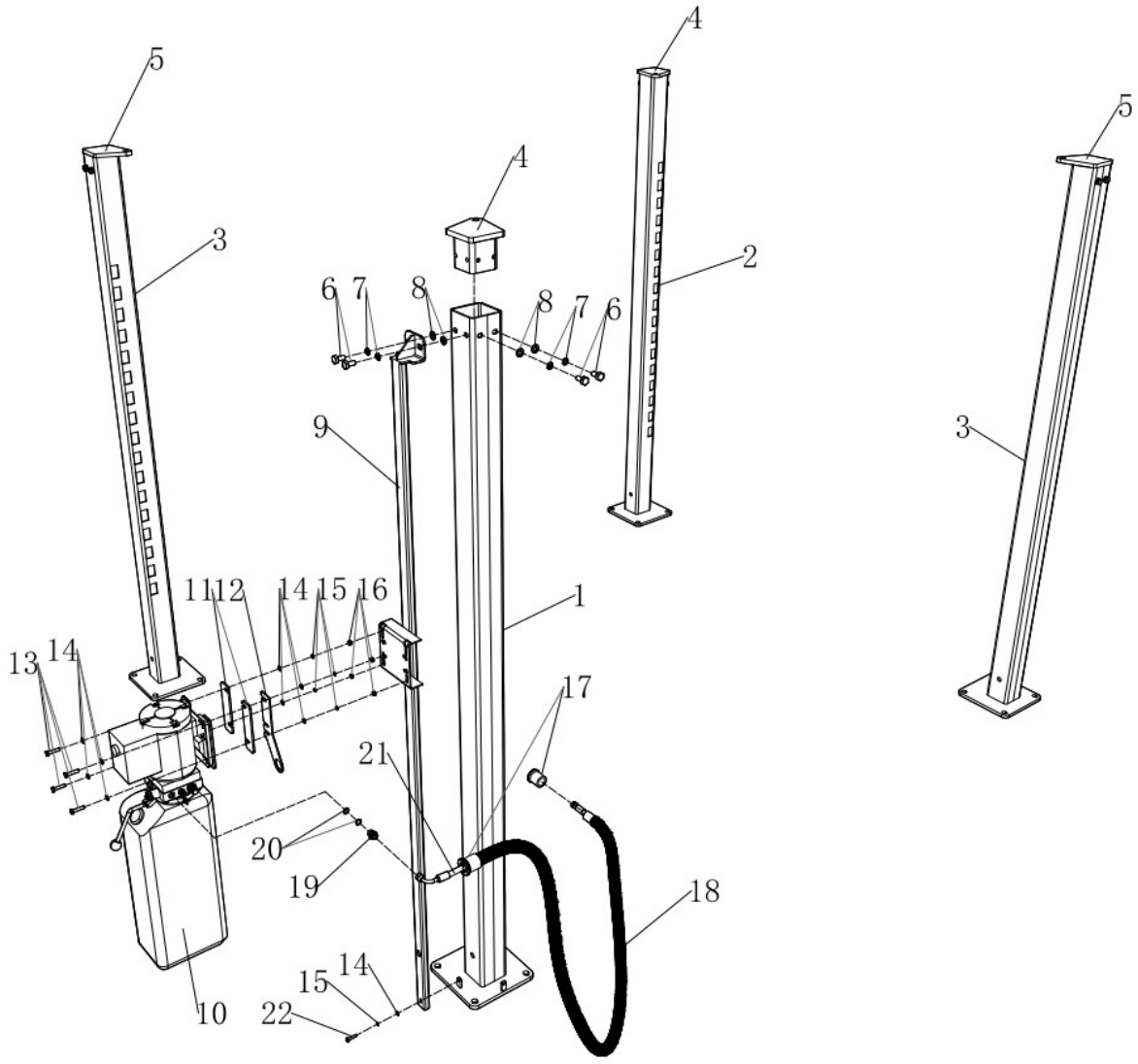
Weekly Checks
1. Inspect the anchor bolts and tighten any that are loose.
2. Check the concrete around the anchor bolts for cracks or deterioration.
3. Check the hydraulic oil level.
4. Inspect the fasteners and tighten any that are loose.

5. Check the condition and fit of the cable pulleys and shafts.

Monthly Checks
1. Grease the cable pulleys and shafts.
2. Inspect the lifting cables for wear. Replace excessively worn cables immediately.
3. Check the hydraulic oil condition. Change the oil as needed, depending on use.

Column Assembly

1. Column Assembly



Serial	Name	Part No.	Specification	Qua	Remarks

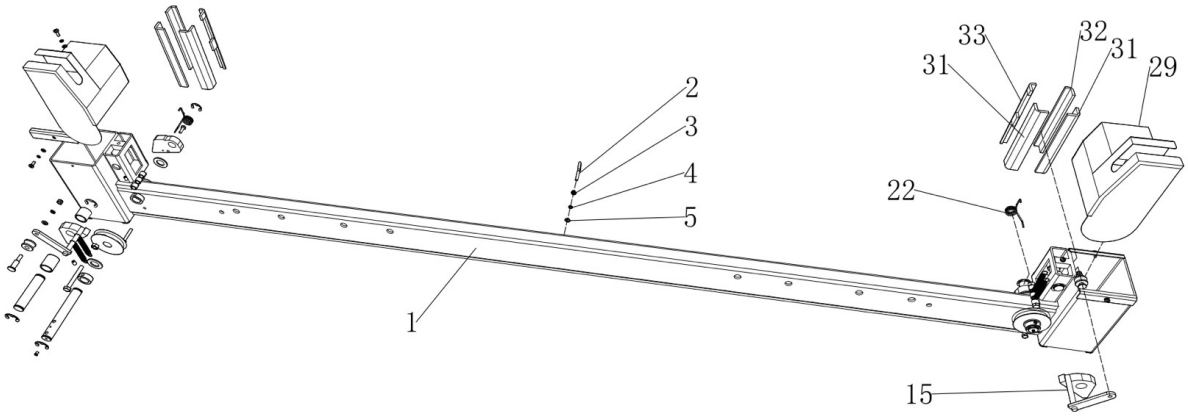
Column Parts

				ntity	(Installation Location)
1	Main Column	P 0011 01 10000	2697-120-120-6	1	
2	Secondary Column 1	P 0011 01 20000	2697-120-120-6	1	
3	Secondary Column 2	P 0011 01 30000	2697-120-120-6	2	
4	Column Cover Plate A	P 0011 01 40000	R25-135-116-16	2	
5	Column Cover Plate B	P 0011 01 50000	R25-135-116-16	2	
6	Hex Head Bolt	DG-01-005-003	GB/T 5783-2016 M12×30	16	Column Cover Plate
7	Spring Washer	DG-01-061-007	GB/T 93-2025 φ12	16	Column Cover Plate
8	Flat Washer	DG-01-059-010	GB 95-85-C φ12	16	Column Cover Plate
9	Power Unit Bracket	P 0011 01 60000	2595-175	1	Main Column
10	Power Unit	DG-01-080-051		1	According to Customer Order
11	Rubber Vibration Pad	DG-01-122-015	175-47-5	2	Power Unit
12	Column Bellows Bracket	P 0011 01 00001	R35/φ38-234-50-3.75	1	Power Unit Bracket
13	Hex Head Bolt	DG-01-003-005	GB/T 5783-2016 M8×35	4	Power Unit
14	Flat Washer	DG-01-059-005	GB 95-85-C φ8	9	Power Unit / Power Unit Bracket
15	Spring Washer	DG-01-061-005	GB/T 93-2025 φ8	5	Power Unit / Power Unit Bracket
16	Hex Nut	DG-01-058-004	GB/T 6170-2016 M8	4	Power Unit
17	Bellows Connector	DG-01-144-001	AD34.5-M36	2	Column Bellows Bracket and Runway Bellows Bracket
18	Bellows	DG-01-143-002	PE--AD34.5 L=2100	1	Connects the Column Bellows Bracket and Runway Bellows Bracket
19	Power Unit Fitting	DG-01-106-004	U.S. 9/16 (Pointed / Flat Type)	1	Power Unit-to-Hydraulic Hose Connection Fitting
20	Power Unit	DG-01-060-001	φ14 Copper Washer	2	Power Unit Fitting

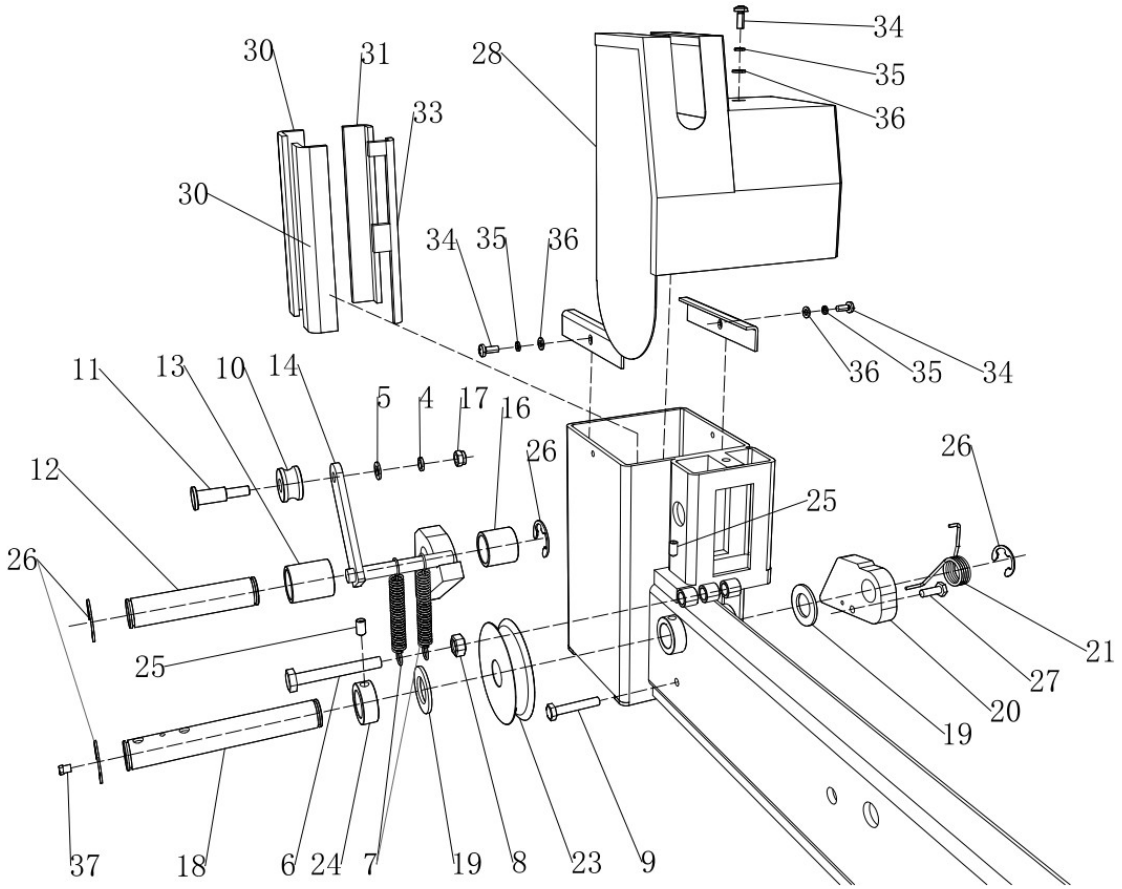
Column Parts and Crossbeam Reference

	Sealing Washer				
21	Hydraulic Hose	DG-01-085-014	L=2340- U.S. 9/16	1	Power Unit-to-Column Hydraulic Hose (One Straight, One 90° Elbow Swivel Fitting)
22	Hex Head Bolt	DG-01-003-003	GB/T 5783-2016 M8×25	1	Power Unit Bracket

2. Cross Beam Assembly



Crossbeam Assembly



Serial	Name	Part No.	Specification	Quantity	Remarks (Installation Location)
1	Cross Beam	P 0011 02 10000	3166-270-150	2	
2	Eye Bolt	DG-01-071-002	GB/825-1988 M8	2	Cross Beam Lock Release Rod Stop
3	Hex Nut	DG-01-058-004	GB/T 6170-2016 M8	2	Cross Beam Lock Release Rod Stop
4	Spring Washer	DG-01-061-005	GB/T 93-2025 φ8	6	Cross Beam Lock Release Rod Stop / Mechanical Safety Lock Stop Roller Pin
5	Flat Washer	DG-01-059-005	GB 95-85-C φ8	6	Cross Beam Lock Release Rod Stop /

Crossbeam Parts

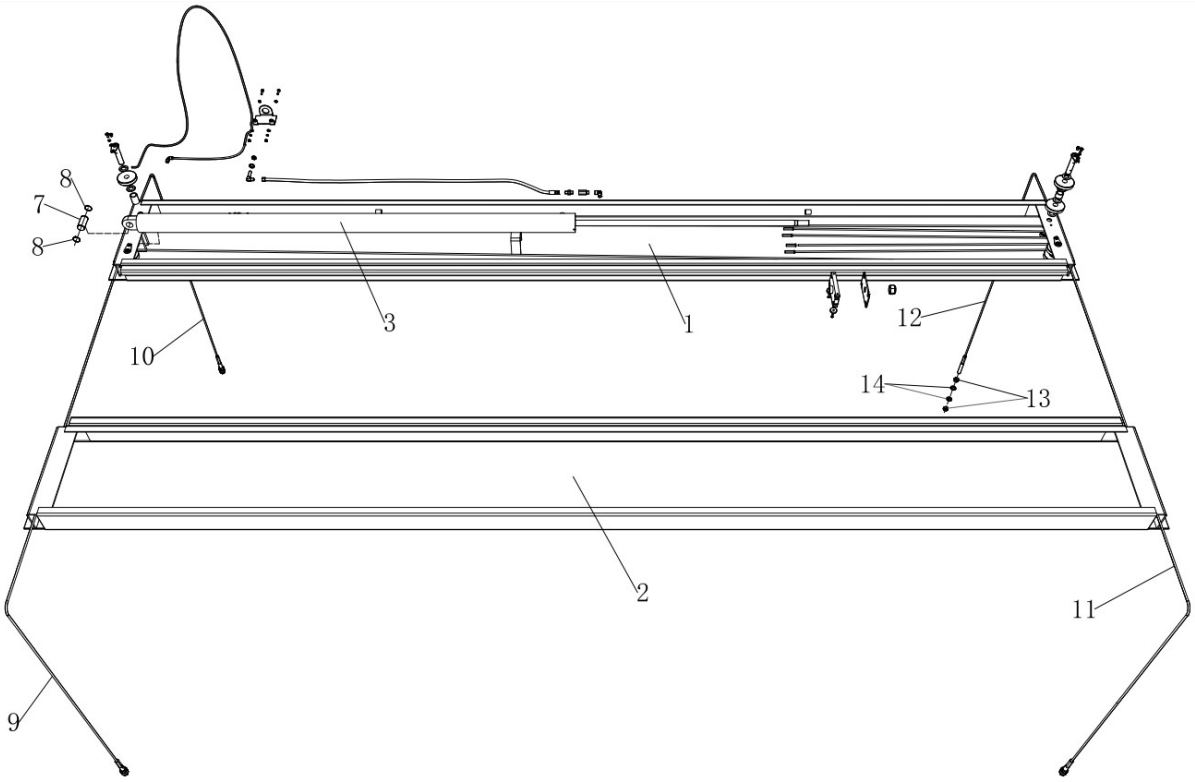
					Mechanical Safety Lock Stop Roller Pin
6	Hex Head Bolt	DG-01-004-008	GB/T 5783-2016 M10×80	4	Cross Beam Lock Release Spring Retainer
7	Mechanical Safety Lock Extension Spring	DG-01-108-005	φ12/φ1.6-55	8	Mechanical Safety Lock Extension Spring
8	Hex Nut	DG-01-058-005	GB/T 6170-2016 M10	4	Cross Beam Lock Release Spring Retainer
9	Hex Head Bolt	DG-01-003-007	GB/T 5783-2016 M8×50	4	Cross Beam Steel Cable Stop
10	Mechanical Safety Lock Galvanized Steel Cable Guide Pulley	DG-FB-029-010	φ30/φ25/φ12-17	4	Mechanical Safety Lock Stop Roller
11	Mechanical Safety Lock Stop Roller Pin	DG-FB-029-011	φ20/φ12-28-M8-22	4	Mechanical Safety Lock Stop Roller Pin
12	Safety Lock Shaft	P 0011 02 00001	φ25/φ22-110	4	Cross Beam Safety Lock Shaft
13	Safety Lock Spacer A	P 0011 02 00002	φ33.5/φ26.5-38	4	Safety Lock Stop
14	Cross Beam Steel Cable Failure Safety Latch A	P 0011 02 20000	98-59.85-25	2	
15	Cross Beam Steel Cable Failure Safety Latch B	P 0011 02 30000	98-59.85-25	2	
16	Safety Lock Spacer B	P 0011 02 00003	φ33.5/φ26.5-30	4	Safety Lock Stop
17	Self Lock Nut	DG-01-058-019	GB/T 1337-1988 M8	4	Mechanical Safety Lock Stop Roller Pin
18	Cable Pulley Shaft	DG-FB-029-004	φ25/φ22-168.3	4	Cross Beam Cable Pulley Shaft
19	Flat Washer-3mm	DG-01-059-020	GB 95-85-C φ24	8	Cross Beam Cable Pulley Shaft
20	Cross Beam Manual Safety Latch	P 0011 02 00004	φ25/62-20	4	
21	Manual Safety Lock Torsion Spring A	DG-01-109-001-1	φ26/φ3-58/52	2	Manual Safety Lock

Crossbeam Parts — Continued

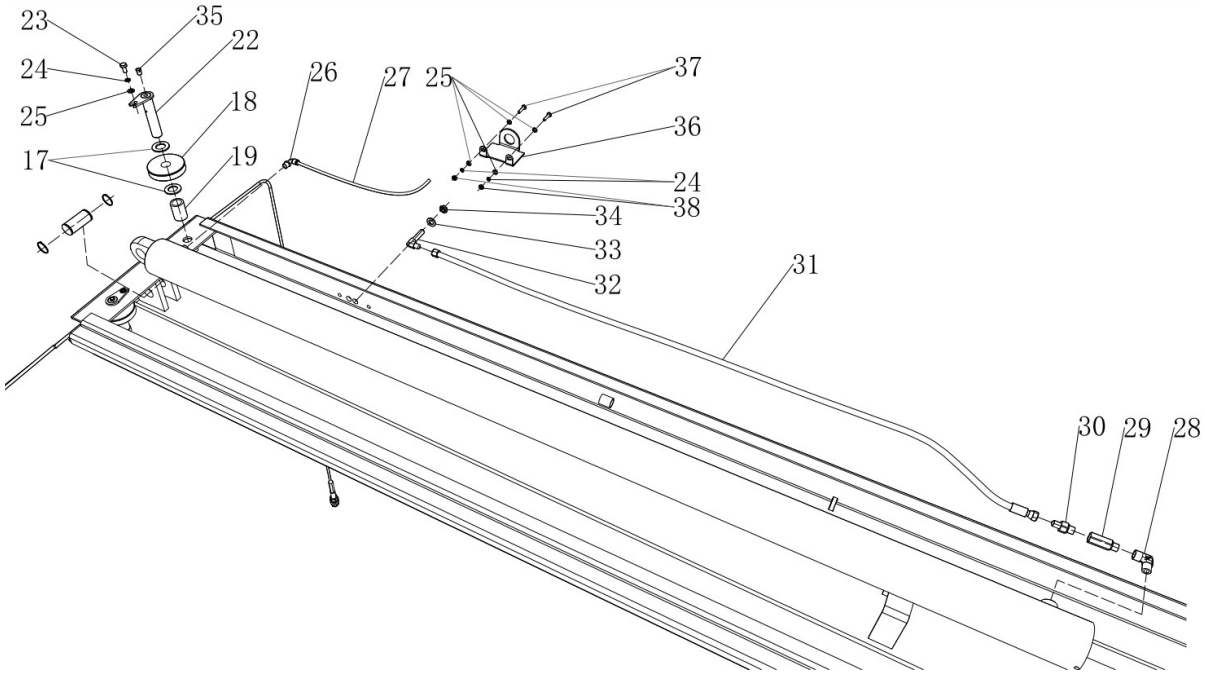
22	Manual Safety Lock Torsion Spring B	DG-01-109-001-2	φ26/φ3-58/52	2	Manual Safety Lock
23	Cable Pulley	DG-FB-100-005	φ98/φ25-19.3/R6	4	Cross Beam Cable Pulley
24	Cross Beam Cable Pulley Spacer	DG-FB-010-005	φ38/φ25.3-14/M8	4	Cross Beam Cable Pulley Stop
25	Hex Socket Set Screw	DG-01-025-004	GB/T 70.2-2025 M8×16	8	Cross Beam Cable Pulley Shaft Retainer / Spacer
26	E-Clip	DG-01-066-001	GB896 φ22	16	Stop Pulley Shaft / Safety Lock Shaft
27	Hex Head Bolt	DG-01-003-003	GB/T 5783-2016 M8×25	4	Cross Beam Lock Release Rod End Bearing Retainer
28	Cross Beam Cover A	P 0011 02 40000	186-197.5-121.6	2	
29	Cross Beam Cover B	P 0011 02 50000	186-197.5-121.6	2	
30	Cross Beam Stop Block A	P 0011 02 00005	270-40/40-8	8	Cross Beam Column Stop
31	Cross Beam Stop Block B	DG-01-104-024	270-40/24-8	4	Cross Beam Column Stop
32	Cross Beam Stop Block C	DG-01-104-025	270-40/24-8(100-40-20	2	Cross Beam Column Stop
33	Cross Beam Stop Block D	DG-01-104-026	270-40/24-8(100-40-20	2	Cross Beam Column Stop
34	Phillips Pan Head Screw	DG-01-104-027	GB/T 818-2016 M6×16	12	Cross Beam Cover Retainer / Cross Beam Stop Block Angle Bracket
35	Spring Washer	DG-01-050-002	GB/T 93-2025 φ6	12	Cross Beam Cover Retainer / Cross Beam Stop Block Angle Bracket
36	Flat Washer	DG-01-061-004	GB 95-85-C φ6	12	Cross Beam Cover Retainer / Cross Beam Stop Block Angle Bracket
37	Grease Fitting	DG-01-059-004	M6 Flat Head Screw	4	Lubricate Cross Beam Cable Pulley Shaft

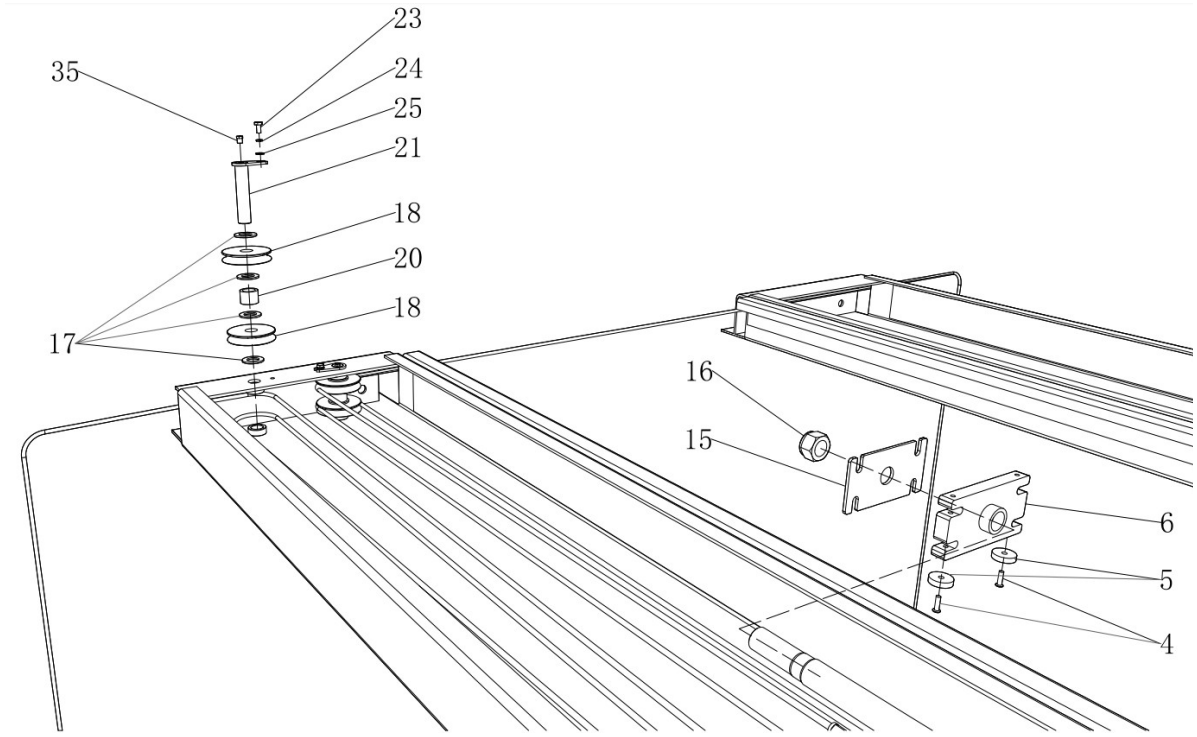
Crossbeam Parts and Runway Reference

3. Runway Assembly



Runway Assembly





Runway Parts

Serial	Name	Part No.	Specification	Quantity	Remarks (Installation Location)
1	Main Runway Assembly	P 0011 03 10000	5207-508-127	1	
2	Secondary Runway Assembly	P 0011 03 20000	5207-508-127	1	
3	Custom Hydraulic Cylinder	DG-01-101-018	90/30*2200	1	Cylinder Bore: 90 mm, Stroke: 2200 mm
4	Phillips Flat Head Screw	DG-01-043-002	GB/T 819.1 M6×12	4	Hydraulic Cylinder Slider Retainer
5	Hydraulic Cylinder Slider	DG-01-104-018	58-30-8mm	2	
6	Hydraulic Cylinder Pull Plate	P 0011 03 30000	φ38/φ28-170-88-35	1	
7	Hydraulic Cylinder Rear Pin	DG-FB-009-005	φ35-78mm	1	Hydraulic Cylinder Retainer
8	External Retaining Ring	DG-01-062-010	GB 894.1 894.2-86 φ35	2	Hydraulic Cylinder Rear Pin Retainer
9	Steel Cable D	DG-01-091-117-1	L=10340-φ11	1	
10	Steel Cable C	DG-01-091-117-2	L=8615-φ11	1	
11	Steel Cable B	DG-01-091-117-3	L=5268-φ11	1	
12	Steel Cable A	DG-01-091-117-4	L=3542-φ11	1	
13	Hex Nut	DG-01-058-011	GB/T41-86 M20	8	
14	Flat Washer	DG-01-059-018	GB 95-85-C φ20	8	
15	Steel Cable Lock Plate	P 0011 03 00001	170-88-4.5	1	
16	Self-Lock Nut	DG-01-058-025	GB/T 1337-1988 M27	1	
17	Flat Washer-3mm	DG-01-059-020	GB 95-85-C φ24	12	Runway Cable Pulley
18	Cable Pulley	DG-FB-100-005	φ98/φ25-19.3/R6	6	Runway Cable Pulley
19	Nylon Spacer	P 0011 03 00002	φ36xφ26-51mm	2	
20	Nylon Spacer	P 0011 03 00003	φ36xφ26-26mm	2	
21	Front Hydraulic Cylinder Cable	P 0011 03 40000	φ25-120/41/51mm	2	

Runway Parts — Continued

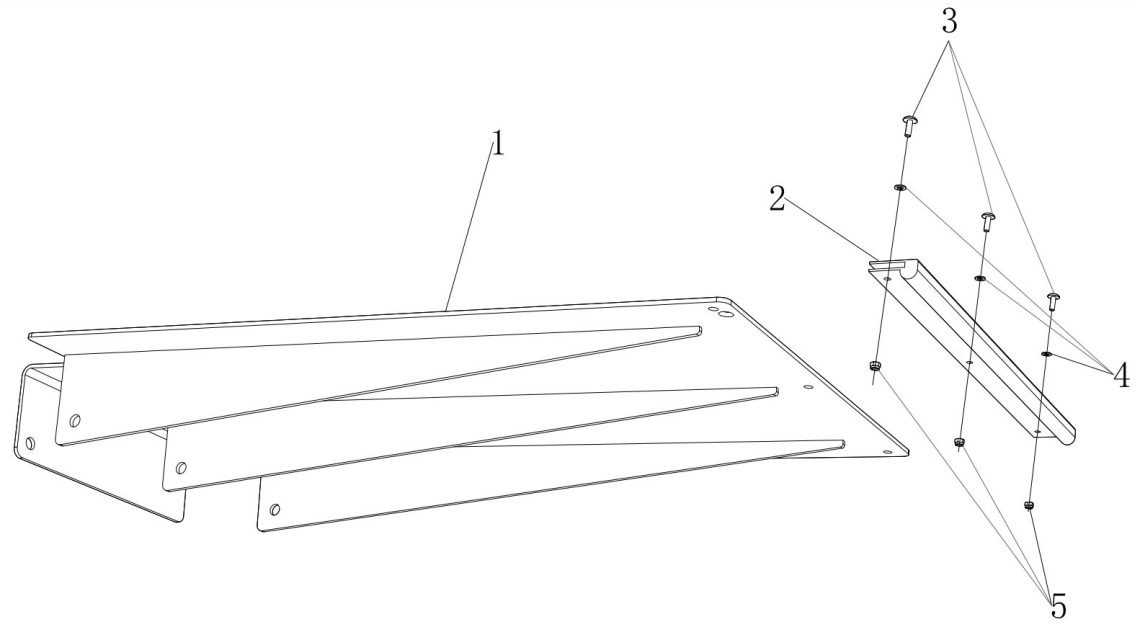
	Pulley Shaft (2 Holes)				
22	Rear Hydraulic Cylinder Cable Pulley Shaft (1 Hole)	P 0011 03 50000	φ25-120/41mm	2	
23	Hex Head Bolt	DG-01-003-001	GB/T 5783-2016 M8×16	4	Cable Pulley Shaft Retainer
24	Spring Washer	DG-01-061-005	GB/T 93-2025 φ8	6	Cable Pulley Shaft Retainer / Runway Bellows Bracket
25	Flat Washer	DG-01-059-005	GB 95-85-C φ8	8	Cable Pulley Shaft Retainer / Runway Bellows Bracket
26	Return Hose Fitting	DG-01-134-005	1/4-φ8	1	Hydraulic Cylinder
27	Return Hose	DG-01-132-002	φ8 L=3500mm	1	
28	Hydraulic Cylinder 90° Elbow Fitting	DG-01-106-006	ZG3/8 Male-G3/8 Female	1	Hydraulic Cylinder Hose Fitting
29	Hose Burst Protection Valve	DG-01-106-031	G3/8 Male -9/16 U.S. Standard Male (Cone Seat)	1	Hydraulic Cylinder Hose Fitting
30	Large Hydraulic Fitting	DG-01-106-019	G3/8	1	
31	Lower Runway Hydraulic Hose	DG-01-084-087	9/16-L=1780mm	1	Hydraulic Cylinder to Runway
32	Runway Small 90° Elbow Fitting	DG-01-106-007-1	9/16 U.S. Standard Male × Male (Cone Seat)	1	Power Unit-to-Hydraulic Cylinder Hose Connection
33	Flat Washer for Runway Small Elbow Fitting	DG-01-106-007-2	GB 95-85-C φ14	1	Power Unit-to-Hydraulic Cylinder Hose Connection
34	Hex Nut for Runway Small	DG-01-106-007-3	9/16-8mm	1	Power Unit-to-Hydraulic

Runway Parts — Continued

	Elbow Fitting				Cylinder Hose Connection
35	Grease Fitting	DG-01-120-001	M10-1 Flat Seat	4	Lubricate Runway Cable Pulley Shaft
36	Runway Bellows Bracket	P 0011 03 00004	φ39/125-97-67	1	
37	Hex Head Bolt	DG-01-003-004	GB/T 5783-2016 M8×30	2	Runway Bellows Bracket
38	Hex Nut	DG-01-058-004	GB/T 6170-2016 M8	2	Runway Bellows Bracket

4. Approach Ramp Assembly

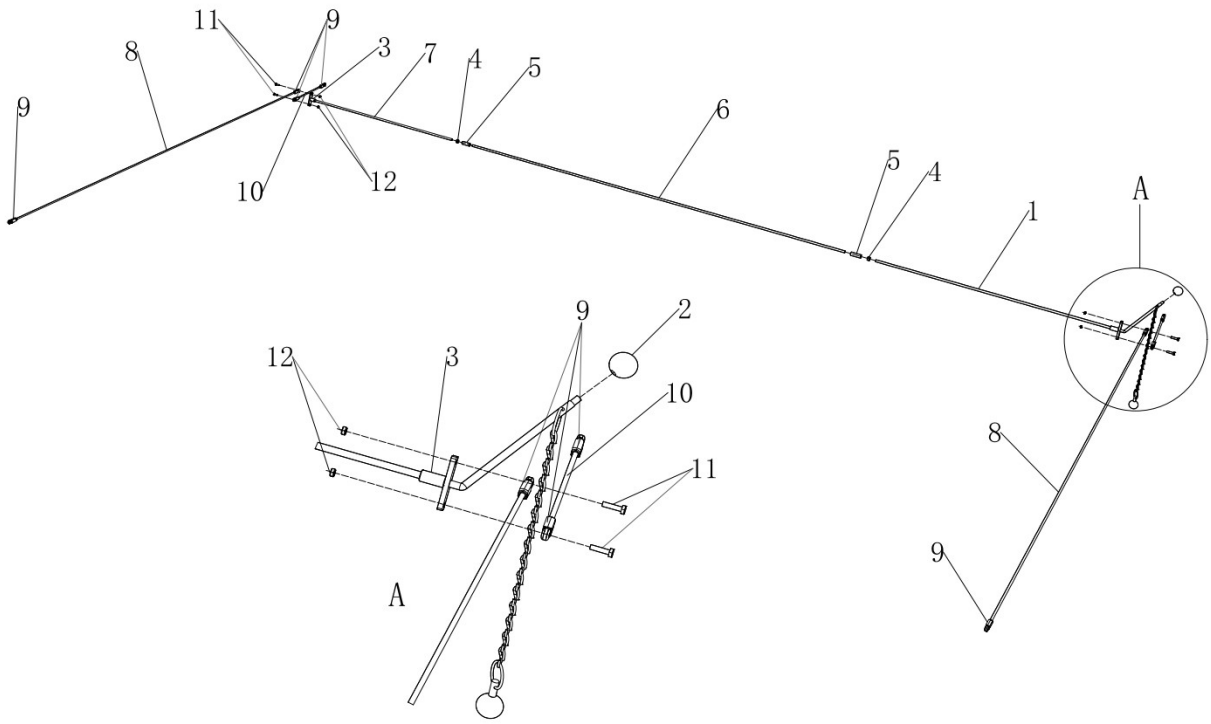
Approach Ramp Assembly



Serial	Name	Part No.	Specification	Quantity	Remarks (Installation Location)
1	Aluminum Approach Ramp	P 0011 04 10000	1255-480-155	2	
2	Slide Strip	DG-01-122-011	500-45	2	Aluminum Approach Ramp
3	Phillips Pan Head Screw	DG-01-042-100	GB/T 818-2016 M5×16	6	Aluminum Approach Ramp
4	Flat Washer	DG-01-059-003	GB 95-85-C φ5	6	Aluminum Approach Ramp
5	Self-Lock Nut	DG-01-058-034	GB/T 1337-1988 M5	6	Aluminum Approach Ramp

5. Manual Lock Release Assembly

Manual Lock Release Assembly

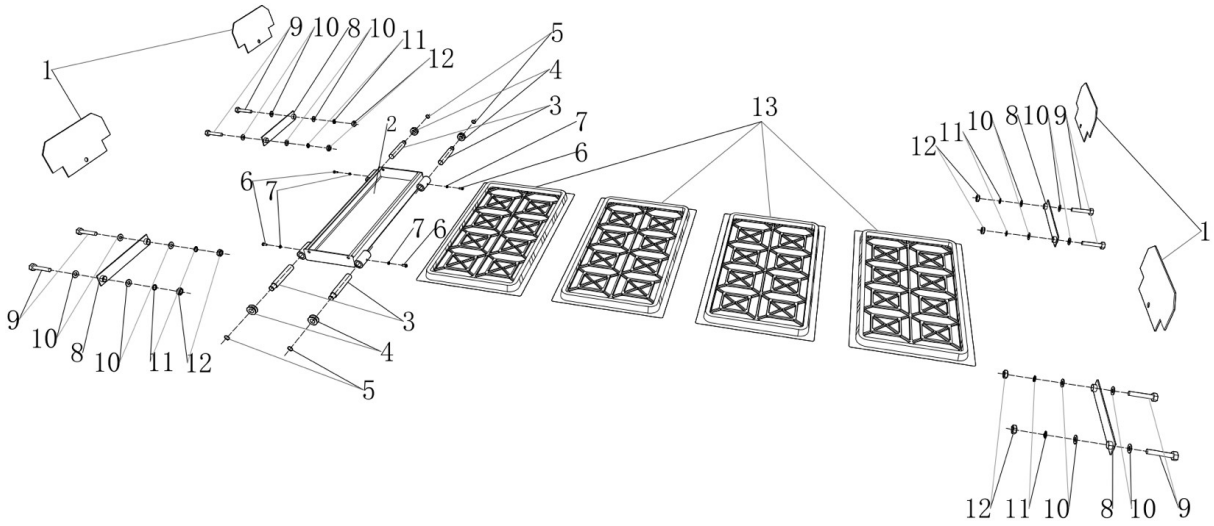


Serial	Name	Part No.	Specification	Quantity	Remarks (Installation Location)
1	Lock Release Handle Assembly with 500 mm Chain	DG-FB-015-003	M12-1300mm	1	
2	Plastic Ball	DG-01-121-001	φ10 Black	2	Lock Release Handle
3	Lock Release Rod Stop Collar	DG-FB-010-014	φ20/φ12.5-40mm	2	
4	Hex Nut	DG-01-058-031	GB/T 6170-2016 M12	2	
5	Lock Release Rod Connector	DG-FB-010-015	φ20/φ12.5-60	2	
6	Intermediate Connecting Rod	P 0011 07 10000	M12-2755mm	1	
7	Lock Release Rod	P 0011 07 20000	M12-1310mm	1	
8	Cross Beam Lock Release Adjusting Rod A	P 0011 07 00001	M8-2450mm	2	
9	Rod End Bearing	DG-01-116-002	SI8T/K Female Right-Hand Thread	8	

Lock Release and Loose Parts

10	Cross Beam Lock Release Adjusting Rod B	P 0011 07 00002	M8-261mm	2	
11	Hex Head Bolt	DG-01-003-004	GB/T 5783-2016 M8×30	4	Cross Beam Lock Release Rod Retainer
12	Self-lock Nut	DG-01-058-019	GB/T 1337-1988 M8	4	Cross Beam Lock Release Rod Retainer

6. Loose Parts Assembly



Serial	Name	Part No.	Specification	Quantity	Remarks (Installation Location)
1	Wheel Stop	P 0011 09 00001	405-205	4	Hook
2	Rolling Tool Tray	P 0011 06 10000	930-300-75	1	Between the Runways
3	Steel Tool Tray Roller Pin	P 0011 06 00001	φ32/φ25-200	4	Rolling Tool Tray
4	Steel Tool Tray Roller	P 0011 06 00002	φ50/φ34/φ25-20	4	Steel Tool Tray Roller Pin

Loose Parts — Continued

5	External Retaining Ring	DG-01-062-006	GB 894.1 894.2-86 φ25	4	Steel Tool Tray Roller Pin
6	Hex Head Bolt	DG-01-003-002	GB/T 5783-2016 M8×20	4	Roller Pin
7	Hex Nut	DG-01-058-004	GB/T 6170-2016 M8	4	Roller Pin
8	Hook Assembly	P 0011 08 10000	400-65	4	Cross Beam
9	Hex Head Bolt	DG-01-008-003	GB/T 5783-2016 M18×100	8	Runway-to-Cross Beam Connecting Bolt
10	Flat Washer	DG-01-059-017	GB 95-85-C φ18	16	Runway-to-Cross Beam Connecting Bolt
11	Spring Washer	DG-01-061-010	GB/T 93-2025 φ18	8	Runway-to-Cross Beam Connecting Bolt
12	Hex Nut	DG-01-058-010	GB/T 6170-2016 M18	8	Runway-to-Cross Beam Connecting Bolt
13	Custom Plastic Drip Tray	P 0011 03 00005	1050-604-40	4	Between the Runways