OLYMPIC 4PHDA 11, 15 Four Post Open Front Alignment Lifts Installation Guide

OLYMPIC AUTO SHOP EQPT

INSTALLATION AND OPERATION MANUAL
FOUR-POST OPEN FRONT ALIGNMENT LIFTS
11,000 LBS&15,000 LBSCAPACITY
Models: 4PHDA-11
4PHDA-15

⚠ **WARNING**

Please read and understand the product manual completely before assembly
Check against the parts list to make sure all parts are received Wear proper safety goggles or other protective gears while in assembly
Do not return the product to dealer.They are not equipped to handle your requests

Contents

INTRODUCTION

1. Carefully remove the crating and packing materials.CAUTION! Be careful when cutting steel banding material as items may become loose and fall caus-ing personal harm or iniury.
2. Check the voltage, phase and amperage requirements for the motor shown on the motor plate wiring should be performed by a certified electrician only.

IMPORTANT SAFETY INSTRUCTIONS
Read these safety instructions entirely!
IMPORTANT NOTICE
Oa not attempt to install this Lift if you have never been trained on basic automotive Lift installation procedures.
Never attempt to Lift companents without proper Lifting toals such as ForkLift or Cranes.
Stay clear of any maving parts that can fall and cause injury.
TOOLS REQUIRED

- Rotary Hammer Orill or Similar
- Socket And Ratchet Set: SAE/Metric
- Crow Bar
- 3/4″ Masonry Bit
- Hex-Key /Allen Wrench Set
- Chalk LineMedium Fat Screwdriver
- Hammer
- 14mm Socket/Hex-Key
- Tape Measure: 25 Foot Minimum
- 4-Foot Level
- Large Crescent wrench
- Needle Nose Pliers
- Open-End wrench Set: SAE/Metric
- Large Pipe Wrench

STEP 1 (Selecting Site)
Before installing your new Lift, check the following.

1. Lift LOCATION: Always use architects plans when available. Check layout dimension against flaor plan requirements making sure that adequate space is available.
2. OVERHEAD OBSTRUCTIONS: The area where the Lift will be located should be free of overhead obstructions such as heaters, building supports, electrical lines, etc.
3. DEFECTIVE FLOOR: Visually inspect the site where the Lift is to be installed and check for cracked or defective

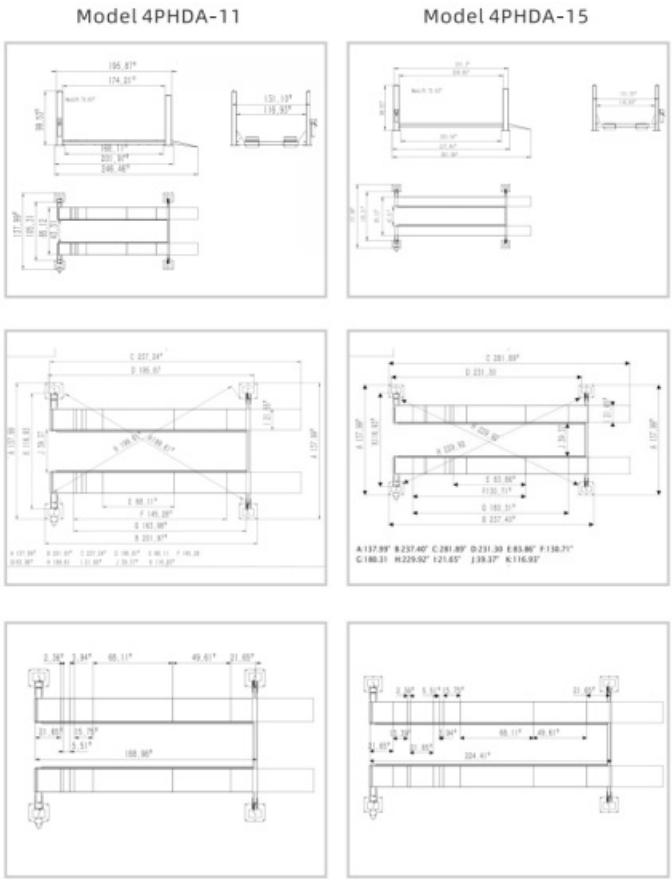
concrete.

4. Lift is designed for INDOOR INSTALLATION ONLY. OUTOOOR INSTALLTIONIS PROHIBITED, Always follow warnings illustrated on equipment labels.
5. This lift is equipped with an air operated lock release system. The air supplied to the lift must be clean, dry, lubricated, and regulated to 90-120 psi, FRL(Filter/Regulator/Lubricator). The FRL must be within 30 feet of lift. Failure to provide clean, dry, lubricated, and pressure regulated air will void warranty on pneumatic components.

STEP 2 (Floor Requirements)

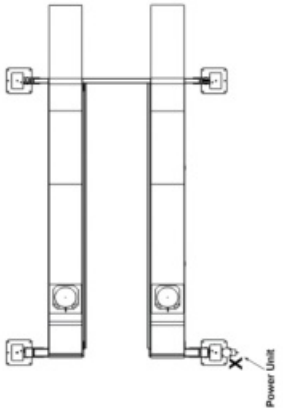
1. It is recommended to use a level floor for proper use, installation, and lifting. If there are issues with the floor's slope, consider having the site inspected and/or the possibility of pouring a new level concrete slab.

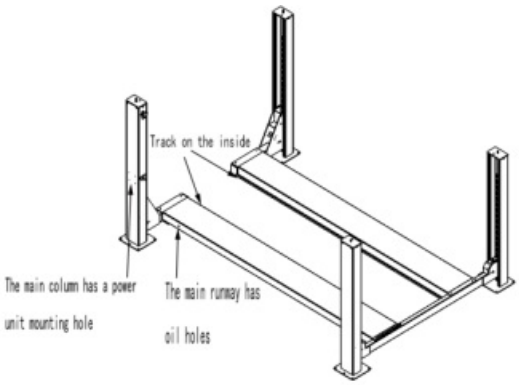
   ⚠ **DANGER**
2. Minimum requirements for concrete are 9.8 inches minimum depth, with steel reinforcement, 3500 psi, concrete anly conforming to the minimum requirements shown above. New concrete must be adequately cured by at least 28 days minimum.
3. This lift must be installed on solid, level concrete flooring with a slope of no more than 3 degrees. Failure to do so may result in serious injury or death.



POWER UNIT LOCATION

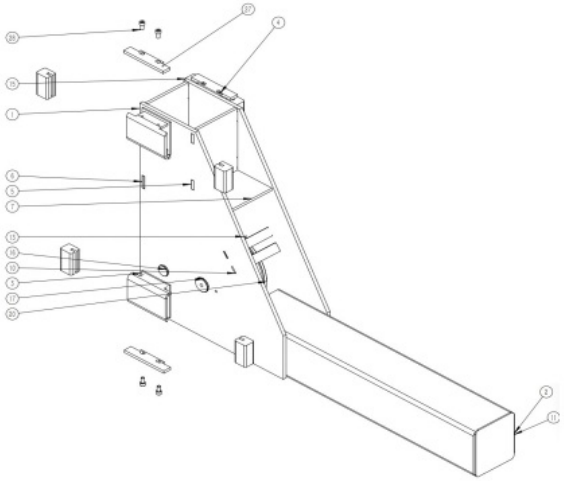
The power unitwill be located at "X" location shown below. Itisimportant to locate the POWER SIDE runway (with cylinder) on the SAME SIDE as the power unit location. Note the location of the bulkhead fitting holes in the POWER SIDE runway. Utility rails on the side of each runway MUST be installed to the inside.

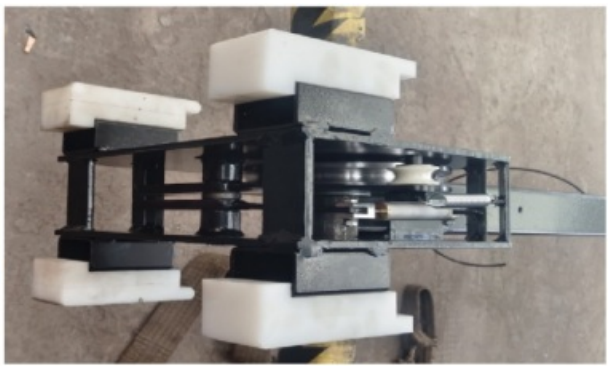




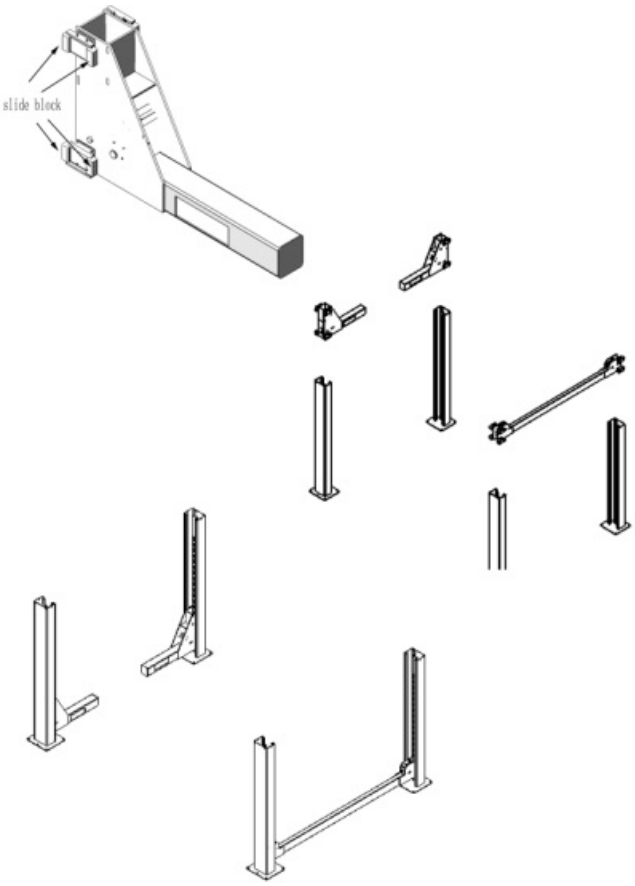
STEP 3 (Column & Cross Tube Installation)

1. Place a chalk line on the floor according to the floor plan layout. Pay attention to the Power Unit location. Locate and stand the Columns at their respective locations. BOLT columns down at this time. Use caution to prevent the Columns from falling over.
2. Assemble the Left and Right Short Crosstube and Weldment as shown in the following figures. DO NOT Carriage

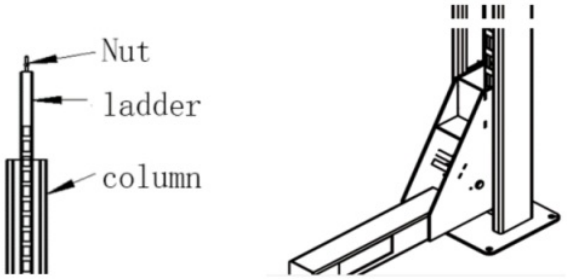


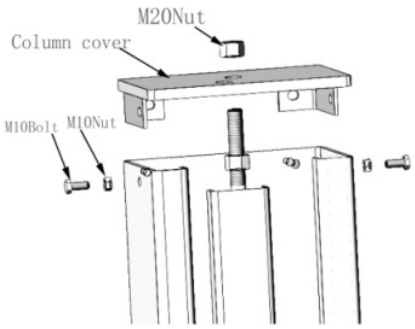


3. Using a forkLift or crane, raise the Cross tubes (making sure the Plastic Slide Blocks and Buttons are stillin position) and slide down into the top of the Columns.



4. With the Columns standing and the cross tubes in position, install the Safety Ladders. Pass the ladders through the Column openings and drop down through the Slide Block guide slots on the Cross Tube until the Ladders come to rest on the Base Plates. DO NOT BOLT Columns down at this time.

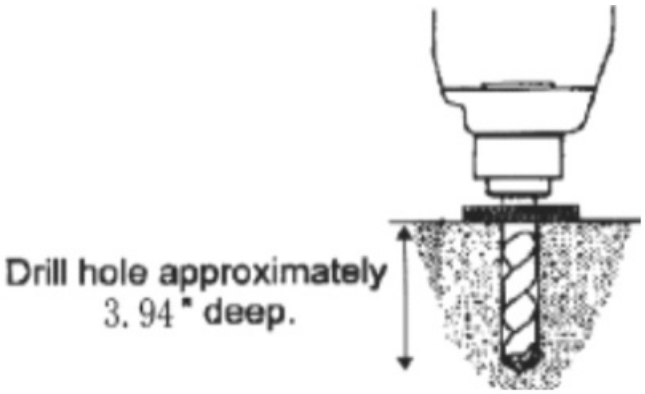




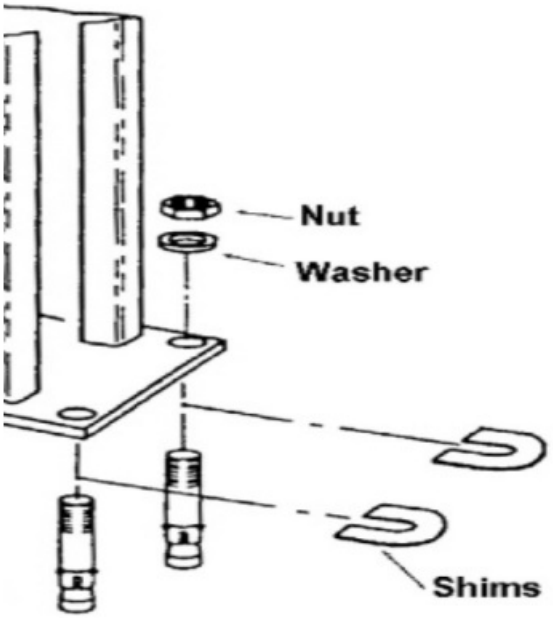
5. Turn the Top Nut on each Safety Ladder until the jam nutis touching the Ladder and the TOP CAP.

STEP 4 (Anchoring The Columns)

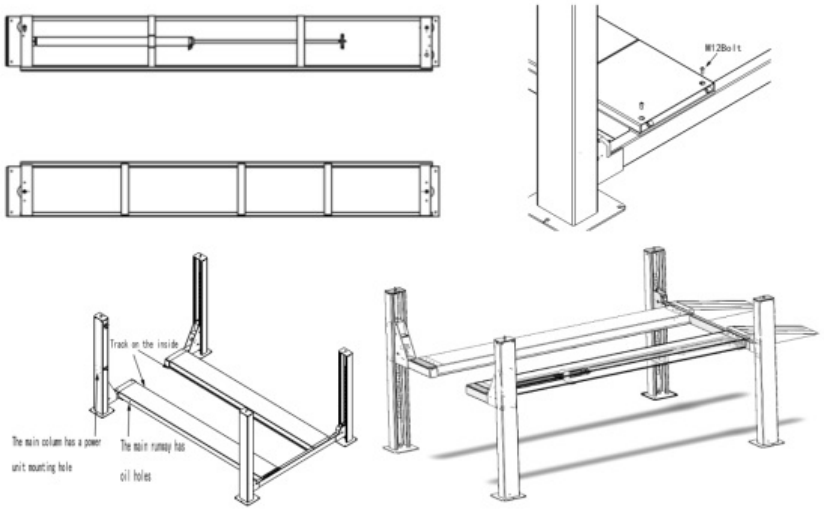
1. Before proceeding, double check the measurements and make certain that the Bases of each Column are square and aligned with the chalk line. ALWAYS WEAR SAFETY GOGGLES.
2. Using the Base Plate on each Column as a guide, drill each anchor hole approximately 3.94″ deep using a rotary hammer drill and 3/4″ concrete bit. Drill hole approximately



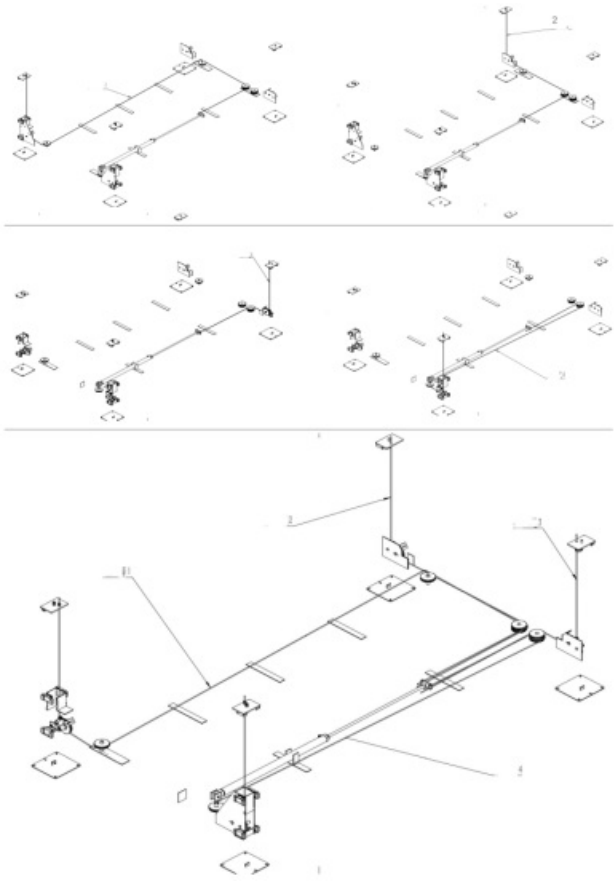
3. After drilling, remove dust thoroughly from each hole using compressed air and/or bristle brush. Make certain that the Columns remain aligned with the chalk line.
4. Assemble the Washers and Nuts on the Anchors then tap into each hole with a hammer until the Washer rests against the Base Plate. Be sure that if shimming will be required, enough threads are left exposed.
5. After any necessary hims are installed, tighten each anchor nut three to five turns past finger tight. IMPORTANT – If Anchor Bolts do not hold when torqued 10.85-90 ft. lbs., concrete must be replaced. Saw cut and remove 24 x 24″ square area under each Column base then re-pour with reinforced 4,000 PS| concrete to a depth of six inches minimum, keying new concrete under existing floor.



STEP 5 (Powerside Runway Installation and (Offside Runway Installation)
Locate the Powerside Runway easily identified by the Cylinder and Sheave Roller mounting structures welded on the underside. The Powerside Runway will be positioned on the side of the Lift where the Power Unit is installed. Position the Offside Runway on top of the Cross Tubes with the utility rail located insid.



STEP 6 (Cable Installation)



STEP 7 (Power Unit Installation)

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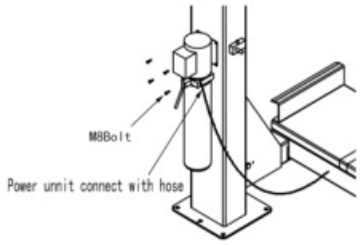
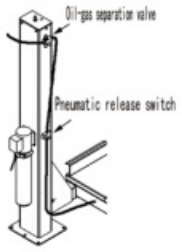
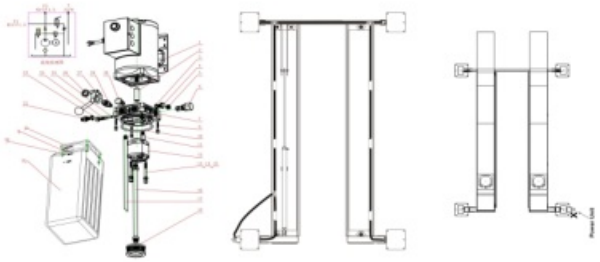


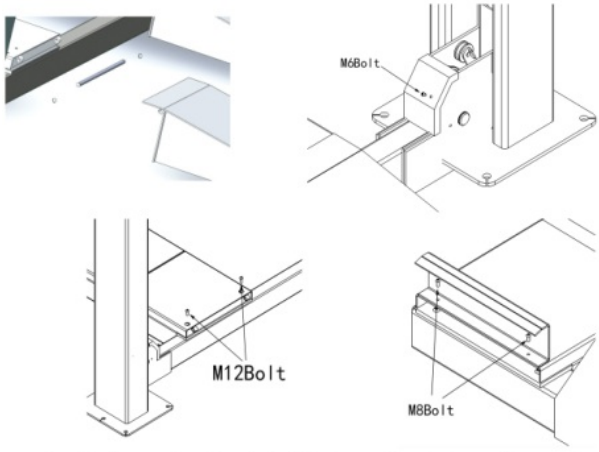
STEP 8 (Routing Air Lines)



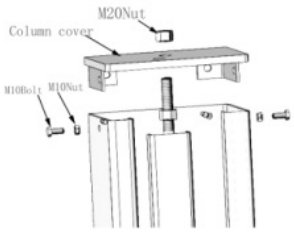


STEP 9 (Lift Start Up / Final Adjustments)

1. Make sure the Power Unit reservoir s full with hydraulic oil or automatic transmission fluid.
2. Spray the inside of the Columns where the Slide Blocks glide with a light lubricant .
3. Test the Power Unit by pressing the push-button switch. If the motor sounds like it is operating properly, raise the Lift and check all Hose Connections for leaks. If the motor gets hot or sounds peculiar, stop and check all electrical connections.
4. Before proceeding, double-check to make sure all Cables are properly positioned within the grooves of ALL Sheaves. Make sure all Cable Sheave retaining pins and/or clips are secure.
5. Check to make sure that all Slack Safety Locks are cleared and free. STEP 10 (Attaching Approach Ramps/ Tire Stops)

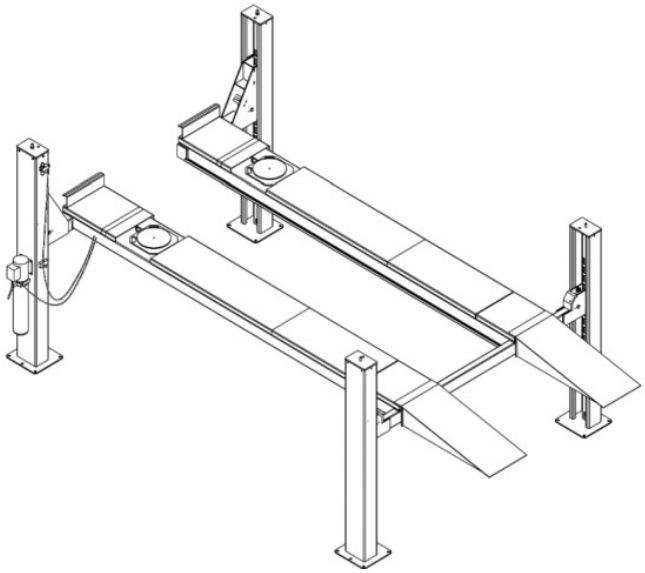


To complete the leveling procedures, lock each safety ladder jam nut tightly against bottom of column top plate



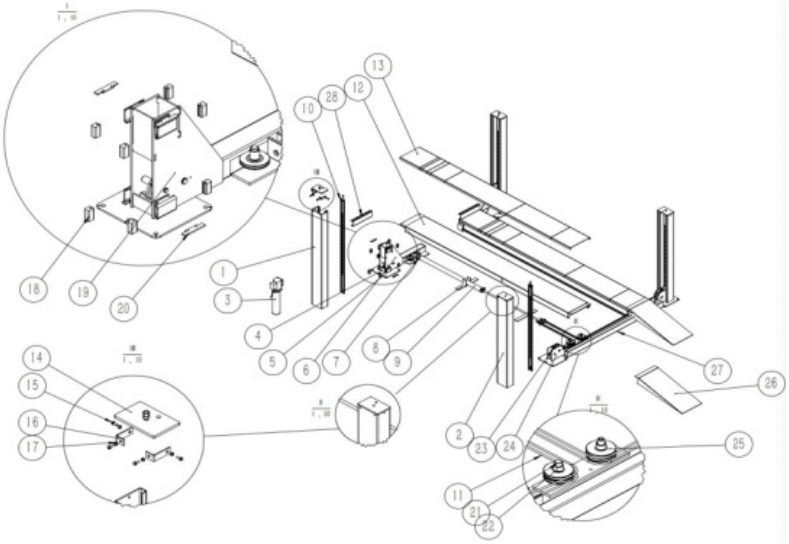
STEP 11 (Post-installation check-off)

- Columns properly shimmed and stable
- Anchor Bolts tightened
- Pivot / Sheave Pins properly attached
- electric power supply confirmed
- Cables adjusted properly
- safety Locks functioning properly
- Check for hydraulic leaks Oil level
- Lubrication of critical components
- Check for overhead obstructions
- Allscrews, Bolts, and Pins securely fastened
- surrounding area clean
- Operation, Maintenance and Safety Manualson site
- perform an Operational Test with a typical Vehicle



Parts Breakdown

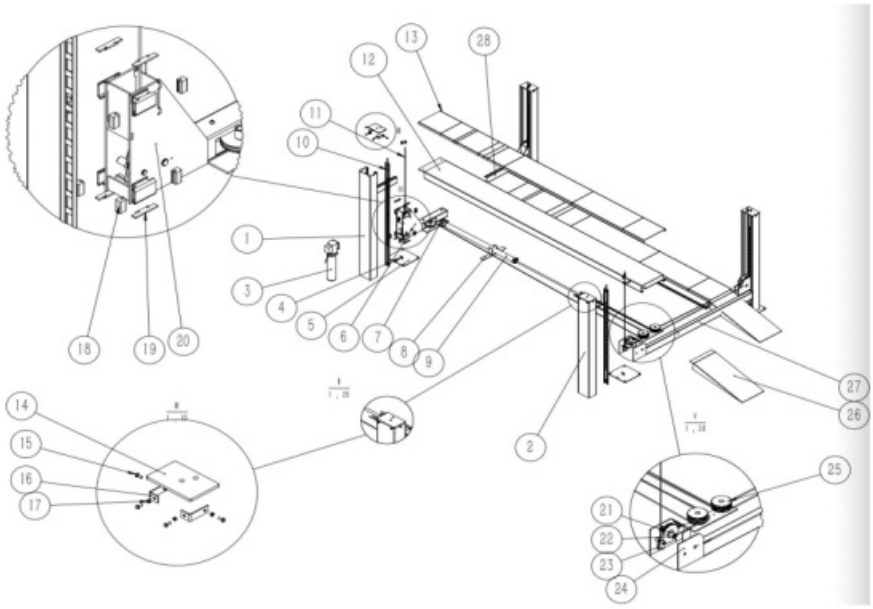
Models: 4PHDA-11



Number	Part Number	Qty
1	Main Column	1
2	Auxiliary Column	3
3	Power Unit	1
4	Safety Lock Plate	4
5	Column Base	4
6	End Side Plate	4
7	Cylinder Fixed Base	2
8	Cylinder Fixed Assembly	3
9	Cylinder	1
10	Safety Bar	4
11	Steel Cable	4
12	Runway	2
13	Runway Cover Plate	2
14	Top Cover Fixing Plate	4
15	Top Cover Fixing Bolt	6
16	Top Cover Fixing Angle	8
17	Top Cover Fixing Nut	16
18	Slide Block	24
19	Slide Block Lock Plate	8
20	End Side Plate	4
21	Wheel Axle	10
22	wheel Axle Spacer	8
23	Safety Stop Block	8
24	Crossbeam Side Plate	4
25	Sheave	2
26	Ramp	2
27	Front Crossbeam	1
28	Tire Stop Plate	2

Parts Breakdown

Models: 4PHDA-15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10	Safety Bar	4
11	Steel Cable	4
12	Runway	2
13	Runway Cover Plate	2
14	Top Cover Fixing Plate	4
15	Top Cover Fixing Bolt	6
16	Top Cover Fixing Angle	8
17	Top Cover Fixing Nut	16
18	Slide Block	24
19	Slide Block Lock Plate	8
20	End Side Plate	4
21	Wheel Axle	10
22	wheel Axle Spacer	8
23	Safety Stop Block	8
24	Crossbeam Side Plate	4
25	Sheave	2
26	Ramp	2
27	Front Crossbeam	1
28	Tire Stop Plate	2

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Documents / Resources

	**OLYMPIC 4PHDA 11, 15 Four Post Open Front Alignment Lifts** [pdf] Installation Guide 11, 15, 4PHDA 11 15 Four Post Open Front Alignment Lifts, 4PHDA 11 15, Four Post Open Front Alignment Lifts, Post Open Front Alignment Lifts, Open Front Alignment Lifts, Front Alignment Lifts, Alignment Lifts, Lifts

References

- **User Manual**