



ATLAS BP9000X

9,000 lb. Capacity
Two-Post Baseplate Lift

INSTALLATION & OPERATION MANUAL



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I. FLOORPLATE CHAIN-DRIVE TWO POST LIFT

Model BP9000X

- Compact design
- Dual hydraulic cylinders, designed and made on ANSI standards, utilizing NOK oil seal for cylinder
- Self- lubricating UHMW Polyethylene sliders and bronze bushings
- Single-point safety release and dual safety design
- Super-symmetric (2 in 1) arms design, Stackable adapters 1.5", 3", 6"

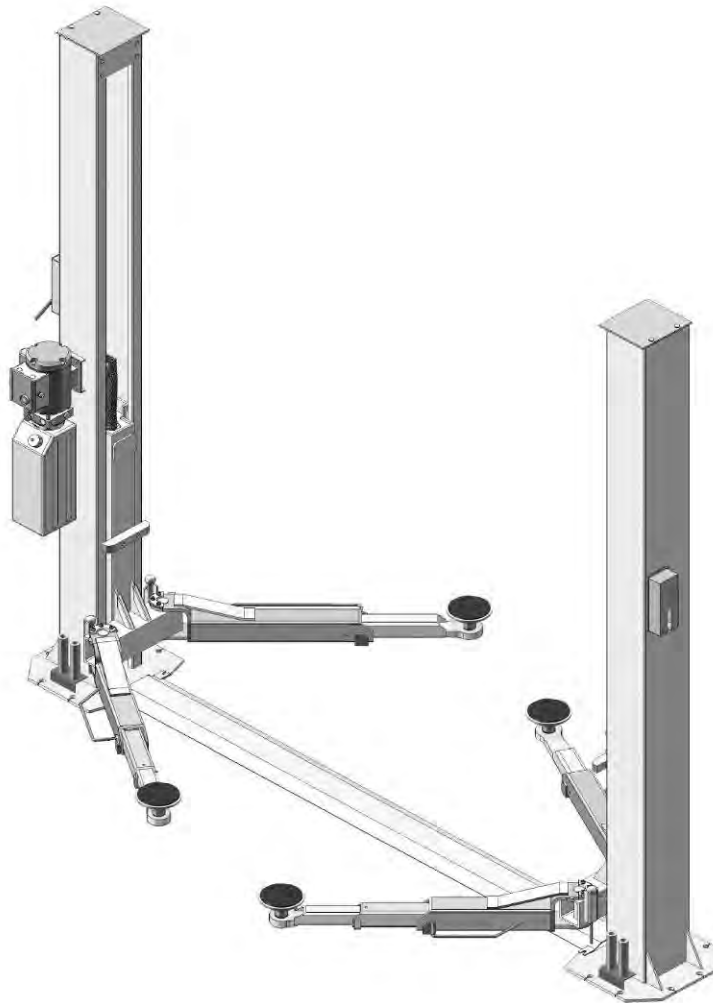
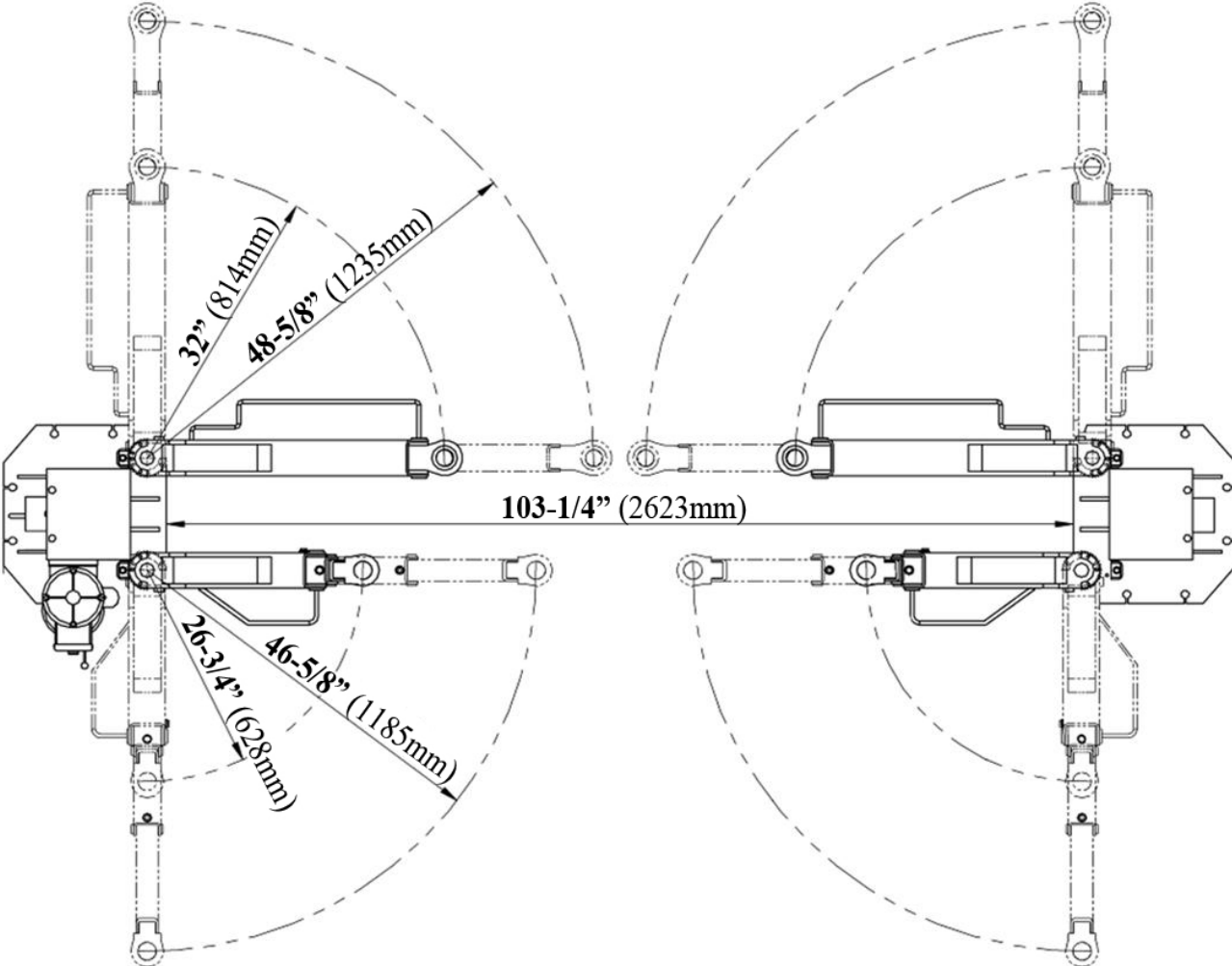


Fig. 1

MODEL BP9000X SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width Between Posts	Minimum Pad Height for stackable adapter	Motor
BP9000	Floor Plate Chain-Drive	4.0 T 9,000 lbs	49 Sec.	1930-2200 mm 76" – 86 5/8"	2837 mm 111 3/4"	3458 mm 136 1/8"	2850 mm 112 1/4"	105 mm 3 1/8"	3.0 HP

Model BP9000X



II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

- ✓ Rotary Hammer Drill (3/4" Drill Bit)



- ✓ Hammer



- ✓ Level Bar



- ✓ Crescent Wrench (12")



- ✓ Ratchet Spanner With Socket



- ✓ Socket Set (mm)



- ✓ Carpenter's Chalk



- ✓ Screw Sets



- ✓ Tape Measure



- ✓ Pliers



- ✓ Allen Head Wrench (6mm)



- ✓ Vise Grips



- ✓ (10#, 13#, 14#, 15#, 17#, 19#, 24#, 27#)

Fig. 2

B. CONCRETE SECIFICATIONS (See Fig. 3).

Concrete Specifications Must Be Followed.

Failure To Do So May Result In Lift and /or Vehicle Falling.

1. Concrete must be a minimum of 4" and without reinforcing steel bars, and must be dried totally before the installation.
2. Concrete must be in good condition and must have a strength of 3,500 psi (250kg/cm²) minimum.
3. Floor must be level and no cracks.

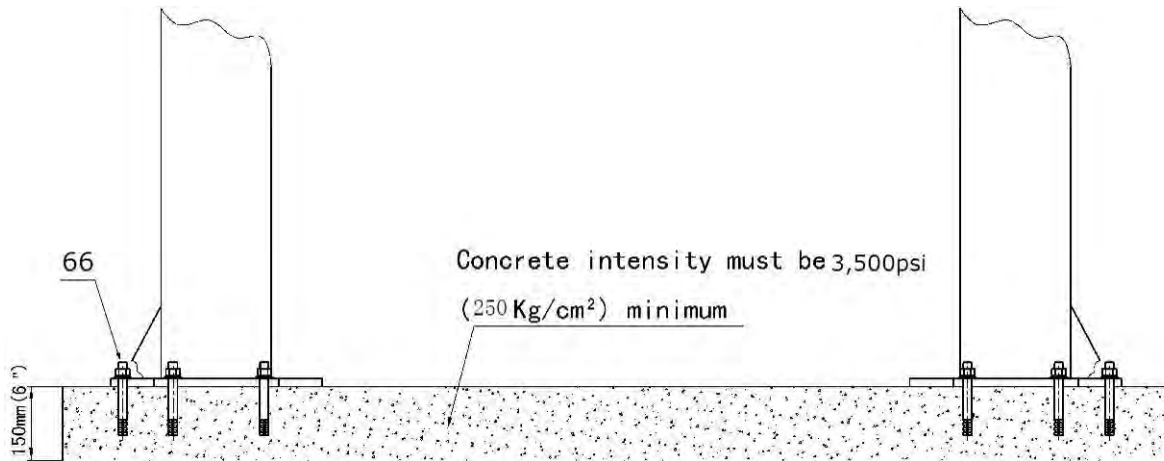


Fig. 3

C. POWER SUPPLY

The capacity of power must be 3 HP minimum. The line must be 2.5 mm² (12 guage) minimum.

III. STEPS FOR INSTALLATION

A. Location of Installation

Check the installation location (concrete, layout, space, size etc.) for the lift installation.

B. Use a carpenter's chalk line to establish installation layout of the base plate (See Fig. 4).



Fig. 4 Model BP9000X

C. Check the Parts Before Assembly.

1. Packaged lift and Hydraulic Power Unit (See Fig. 5).



Fig. 5

2. Unload the lift with a fork lift or hoist, and open the outer packing carefully (See Fig. 6).

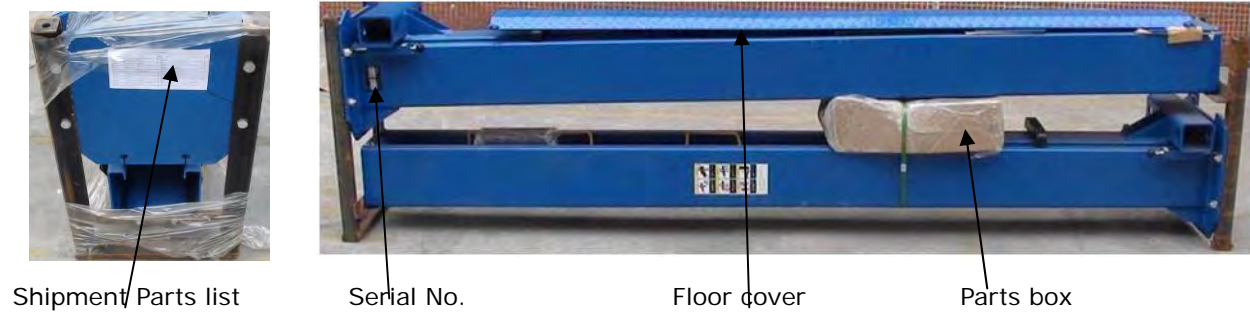


Fig. 6

3. Remove the parts from upper and inside the column, then take out the parts box, and check the parts according to the shipment parts list (See Fig. 7).

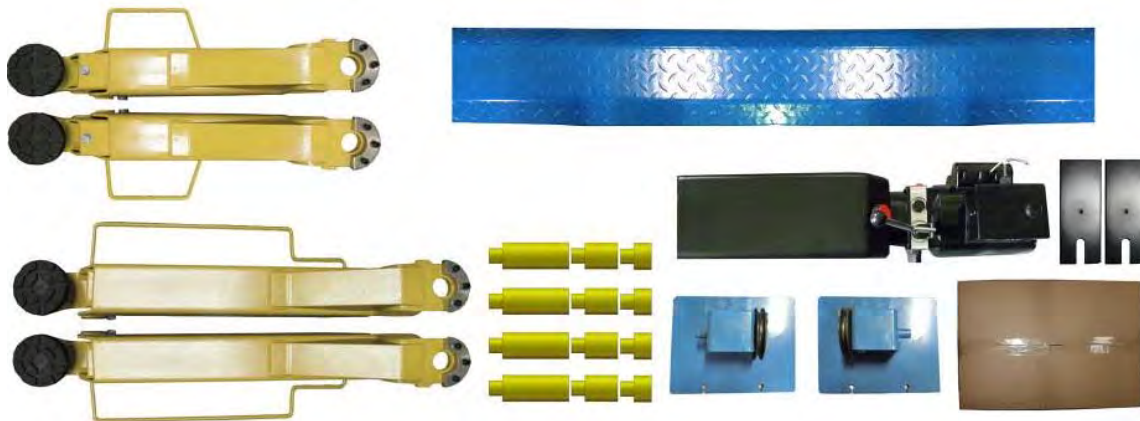
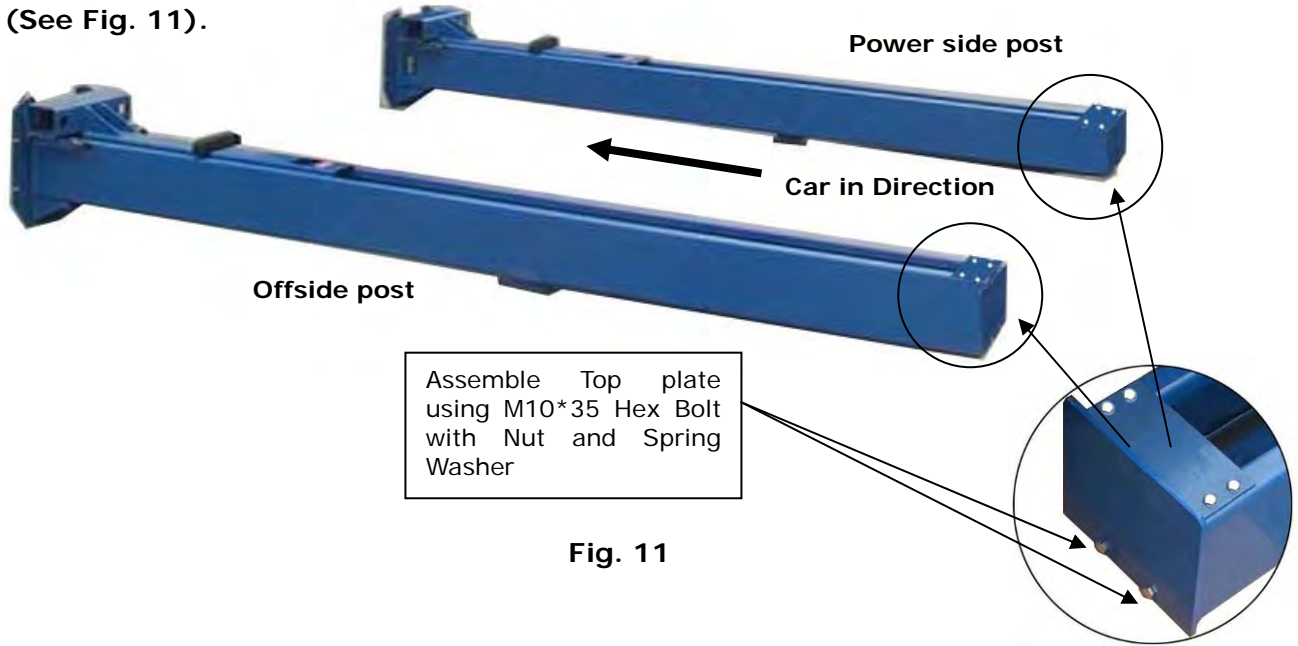


Fig. 7 Model BP9000X

D. Position Power Side Post

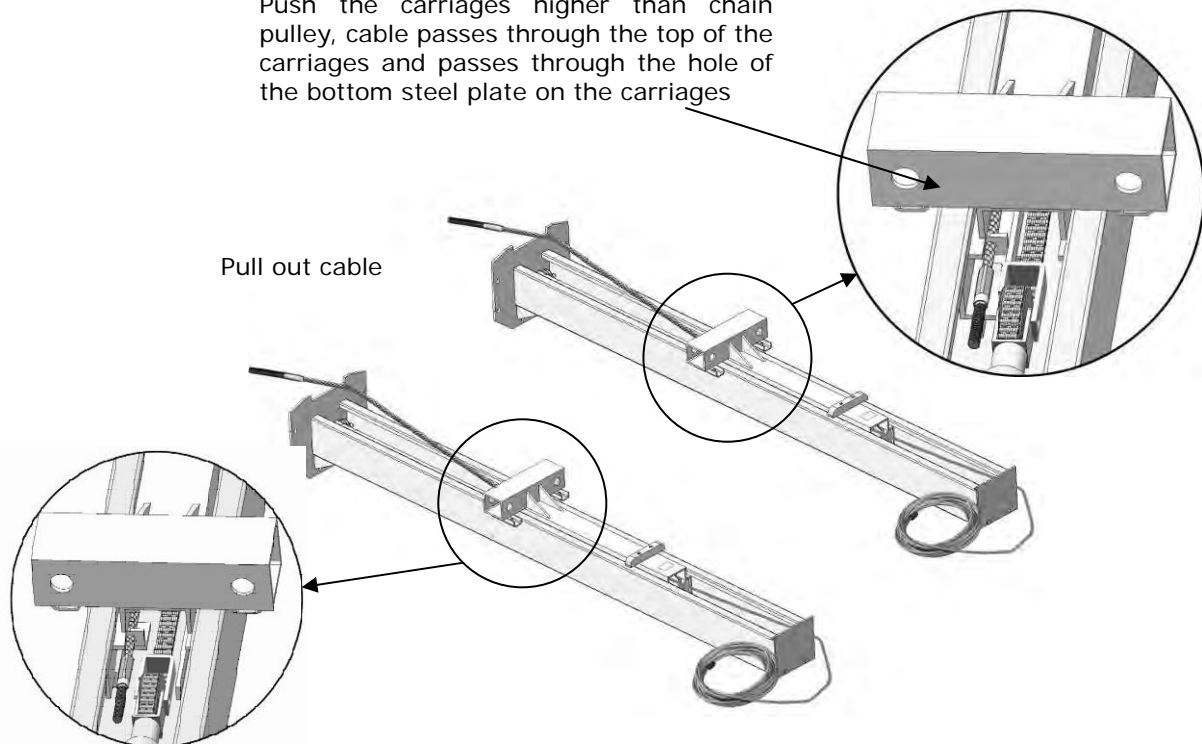
Lay down the two posts on the installation site parallel, position the Power side post according to the location of the actual installation. Usually, it is suggested to install Power side Post on the front-right side from which vehicles are driven to the lift (See Fig. 11).



E. Connecting the Cables

1. With the posts down, push the carriages higher than the chain pulley (See Fig. 12).

Push the carriages higher than chain pulley, cable passes through the top of the carriages and passes through the hole of the bottom steel plate on the carriages



2. Push the carriages to the bottom of the columns (See Fig. 13).



Fig. 13

F. Position posts (See Fig. 14)

Check the posts plumb with level a, and adjust with shims if the posts are not level.

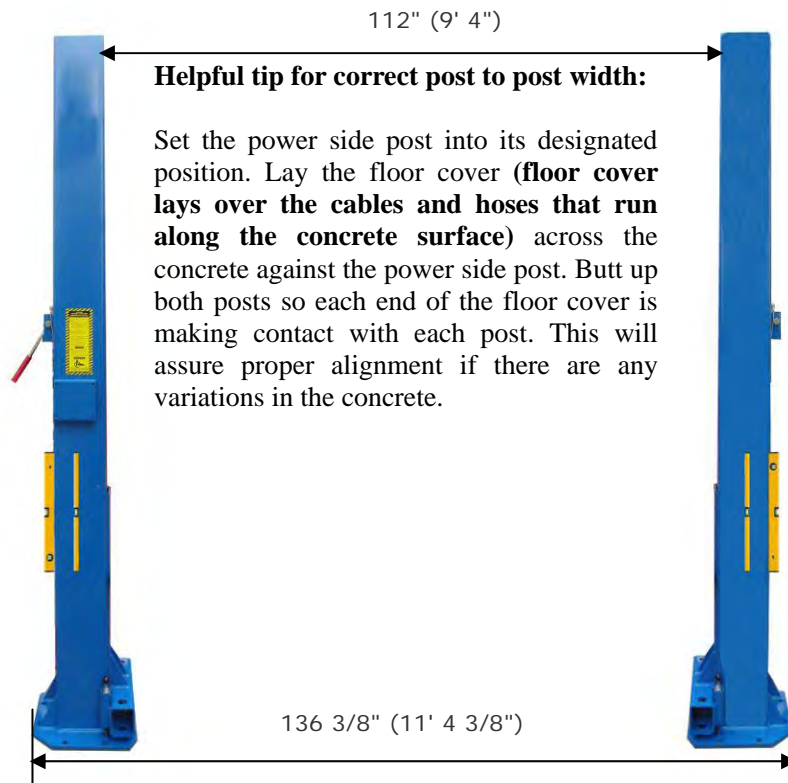
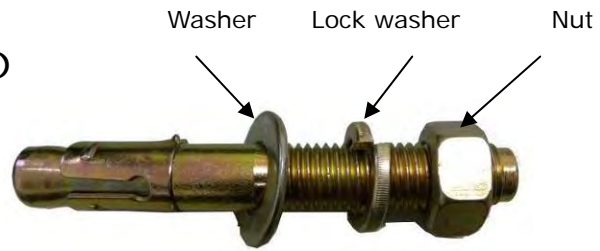


Fig. 13

G. Install the Anchor Bolts

1. Prepare anchor bolts. (See Fig. 14)

Fig. 14



2. Use a rotary hammer drill with a $\frac{3}{4}$ " masonry drill bit, and drill all the anchor holes and install the anchor bolts. Tighten the anchor bolts to 100 foot pounds (See Fig. 15).

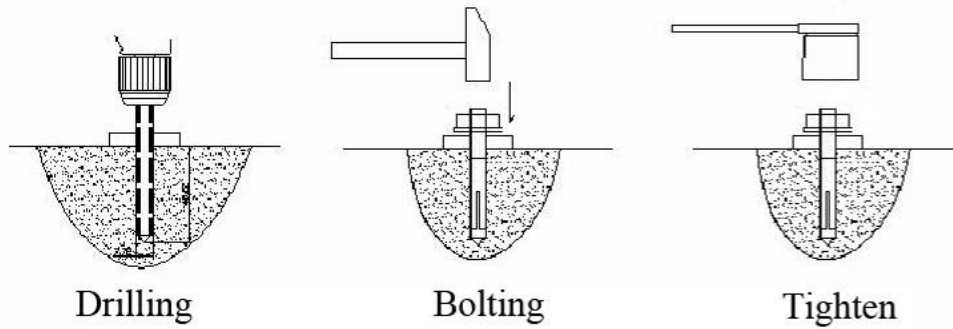


Fig. 15

H. Lift the carriages up by hand and let them rest on the first set of locks. (See Fig. 16).

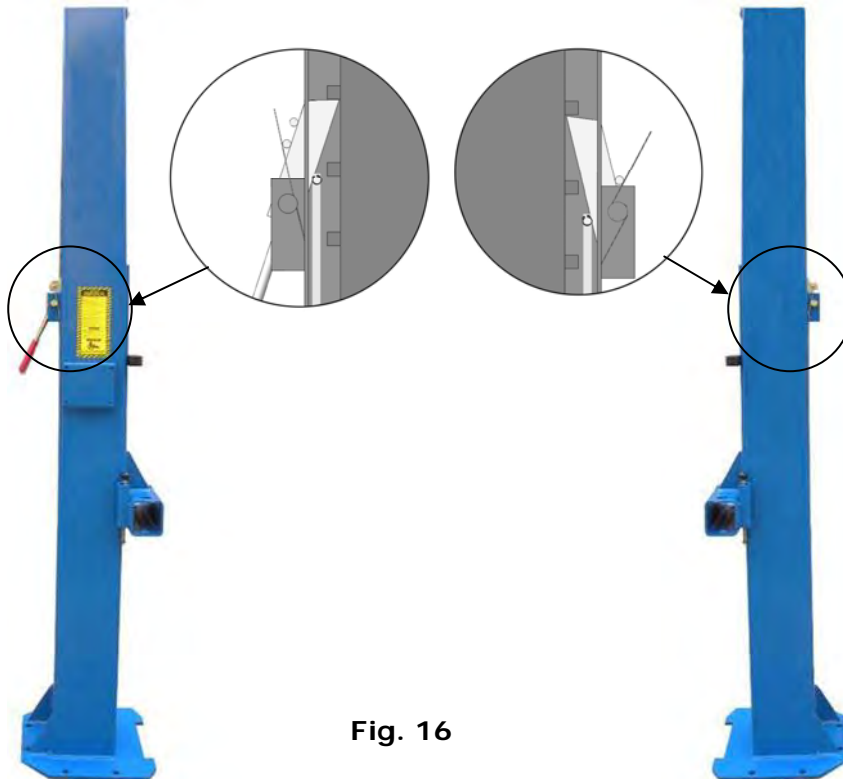
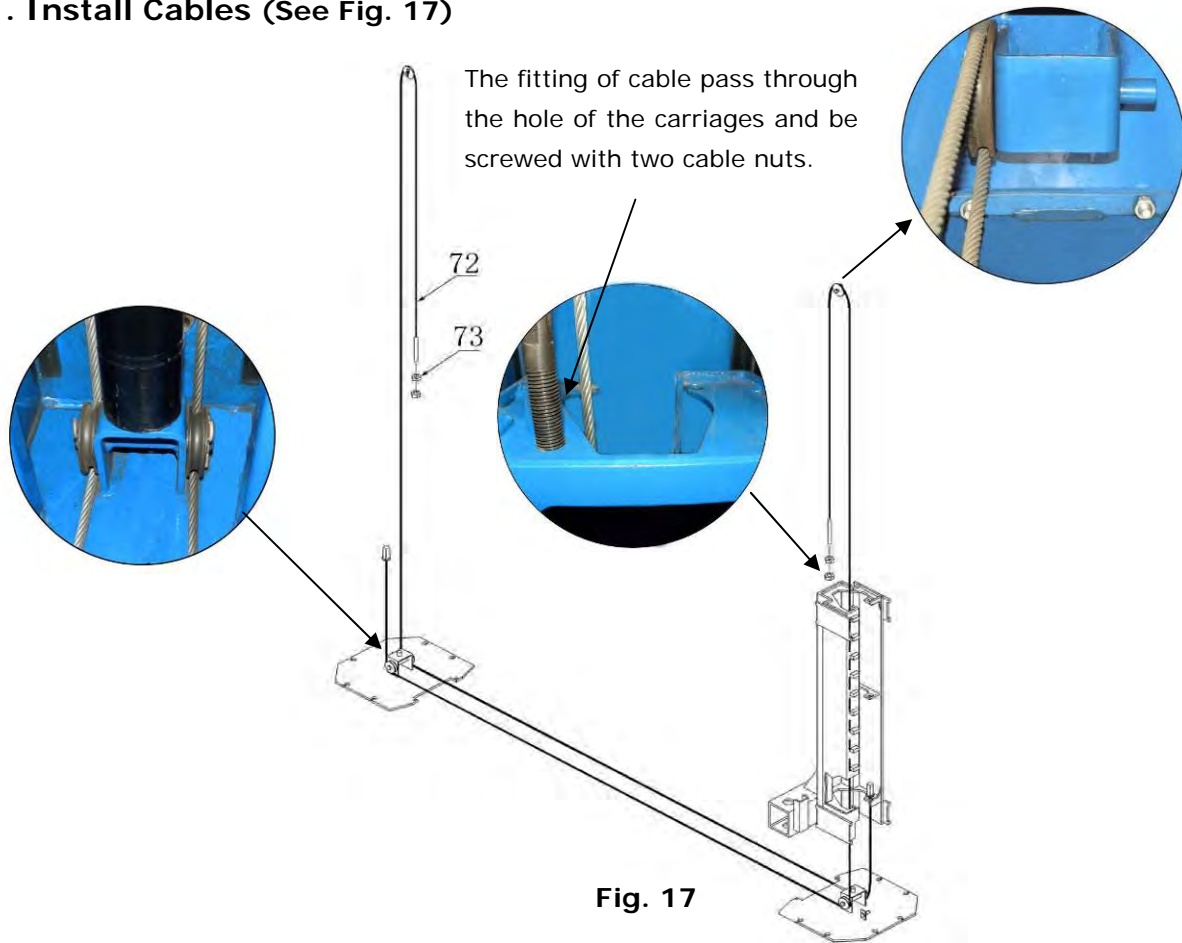
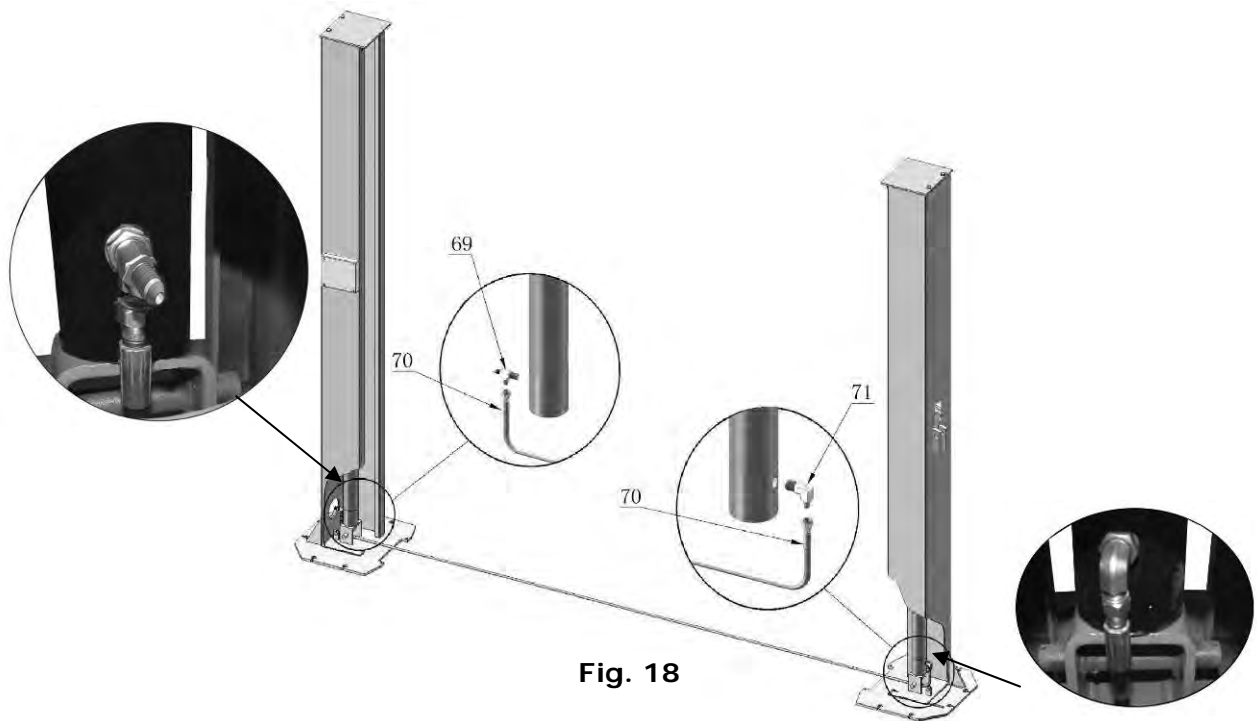


Fig. 16

I. Install Cables (See Fig. 17)



J. Hydraulic Hose Assembly (See Fig. 18).



K. Install Hydraulic Power Unit and the Hydraulic Hose (See Fig. 19).

Tighten all the hydraulic fittings, and fill the reservoir with hydraulic oil.

Note: Before filling the power unit reservoir, make electrical connections to the 220volt power unit and test run it for a few seconds to see if it operates properly. Fill the power unit reservoir with #32 series hydraulic oil; approximately 3 gallons.

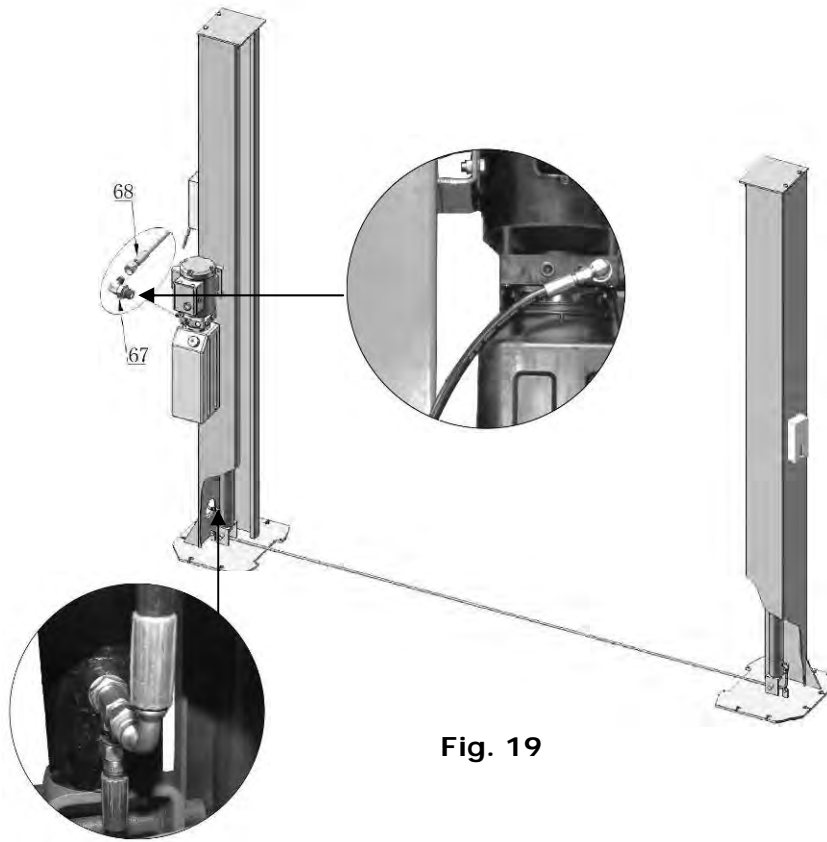


Fig. 19

L. Install Safety Device and Safety Cable (See Fig. 20).

- NOTE:** 1. Install the safety cable from the offside lock assembly.
2. Pay attention to the connecting direction of the safety cable.

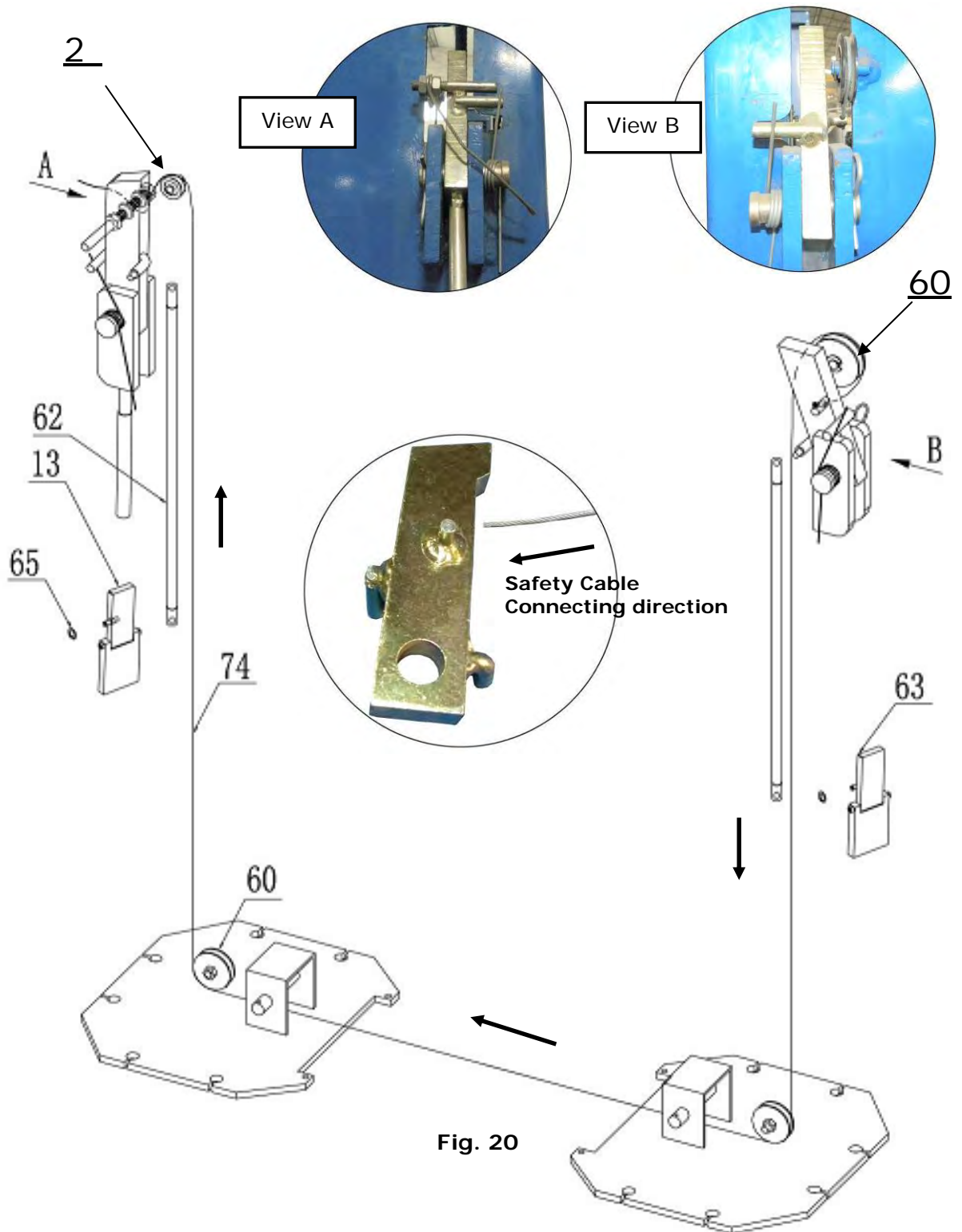


Fig. 20

M. Assemble Floor Cover and Protective Rubber Guards (See Fig. 21).



Fig. 21

N. Install the Lifting Arms and Adjust the Arm Locks

1. Install the Lifting Arms (See Fig. 22).

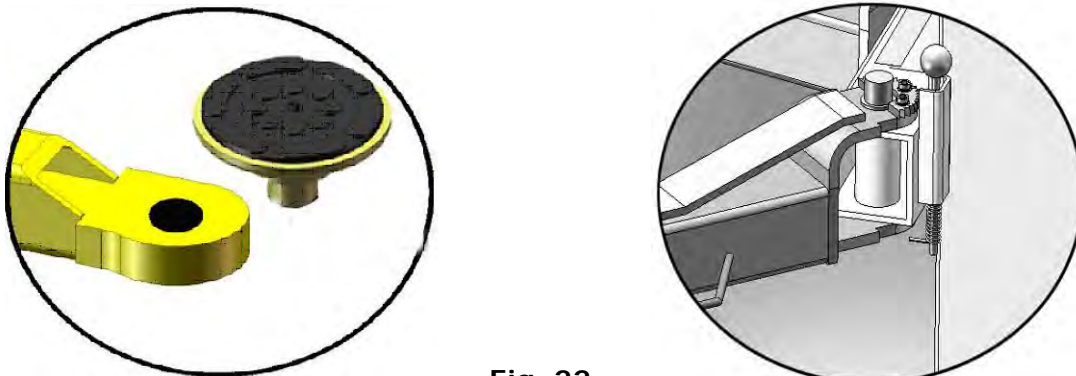


Fig. 22

2. Lowering the carriages down to the lowest position, then use the 17# wrench to loosen the nut (See Fig. 23)

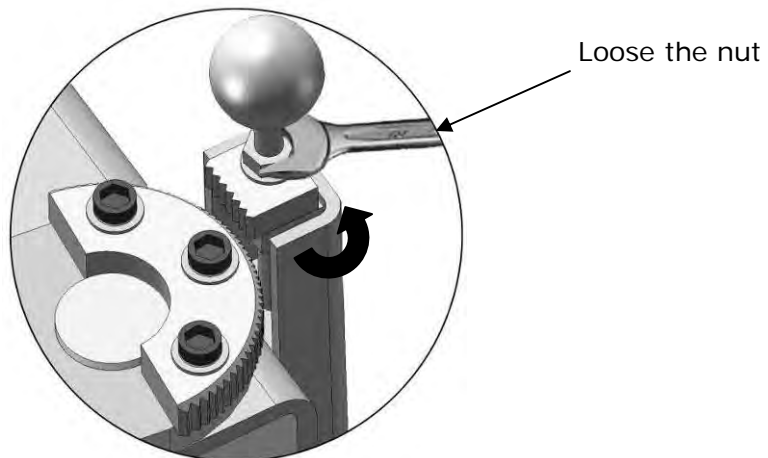


Fig. 23

3. Adjust the arm lock either back or forth to mesh the gear lock teeth (See Fig. 24).

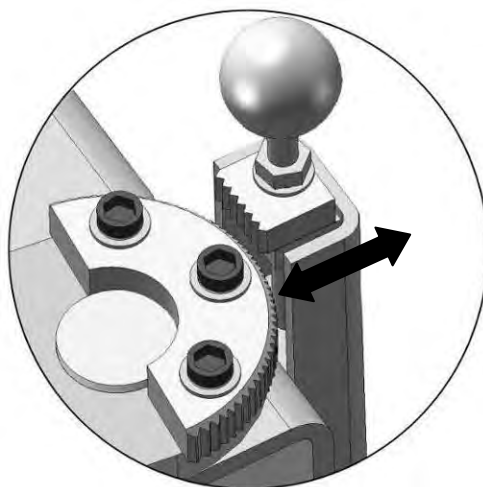


Fig. 24

O. Install Electrical System

Note:

Single phase motor wiring (See Fig. 25)

1. Connect the two power supply lines (fire wire **L** and zero wire **N**) to terminals on the AC contactor marked **L1, L2**.
2. Connect the two motor wires to terminals on the AC contactor marked **T1, T2**.
3. Connect the jumper wire (about 3" long) **A2** to **L2** on the AC contactor.
4. Connect the control (**push**) button wires to **A1, L1** on the AC contactor.

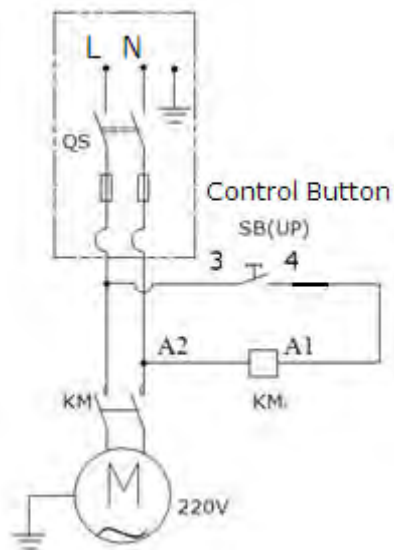
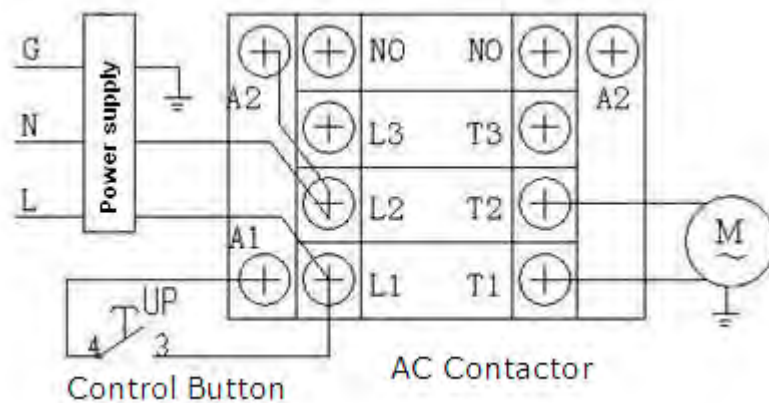
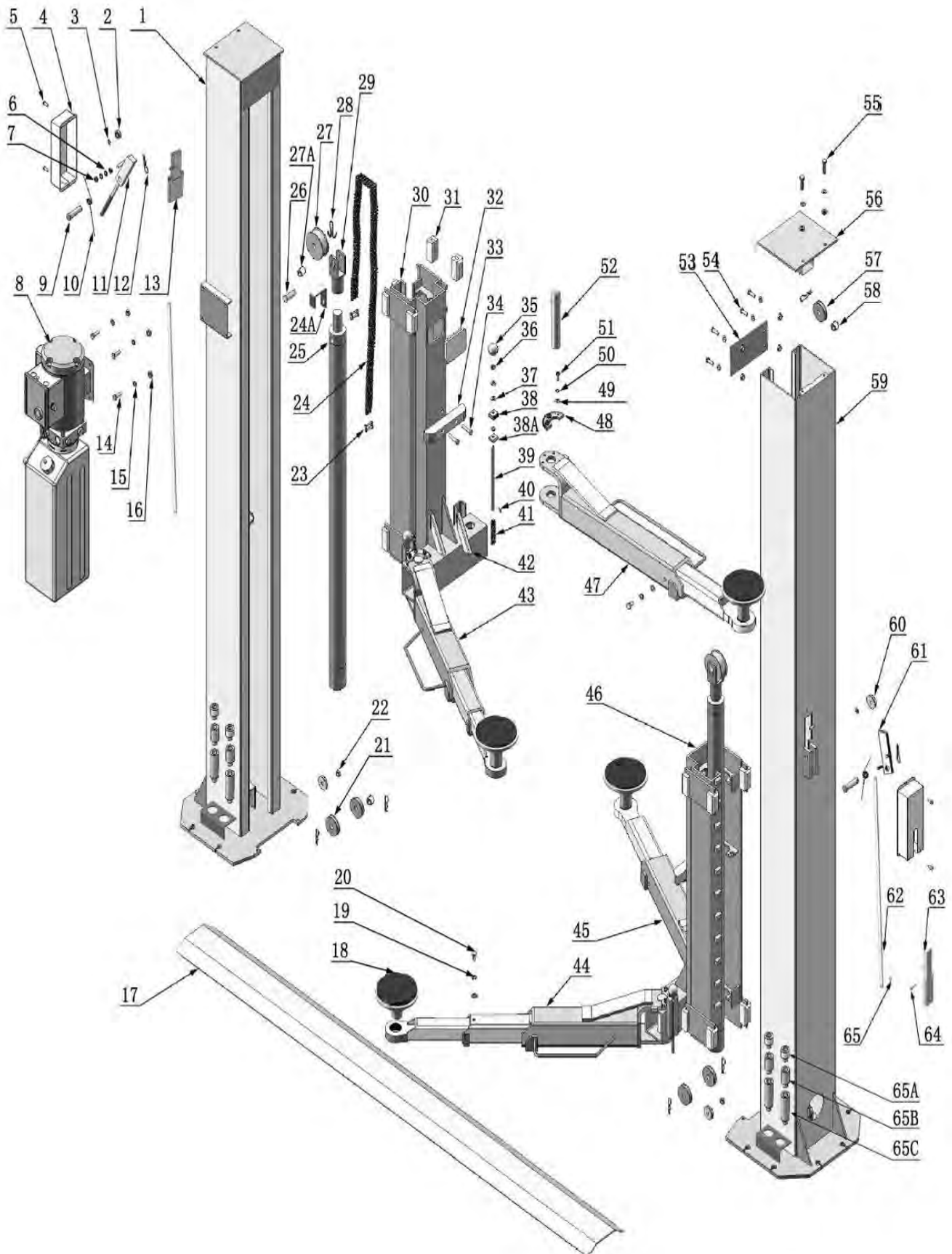
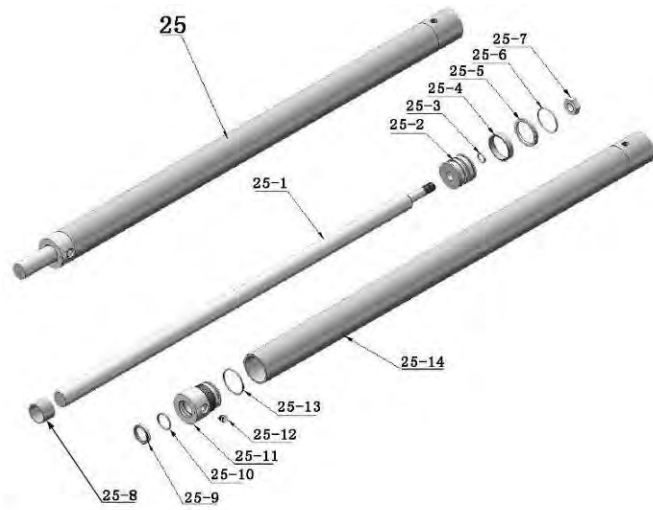


Fig. 25

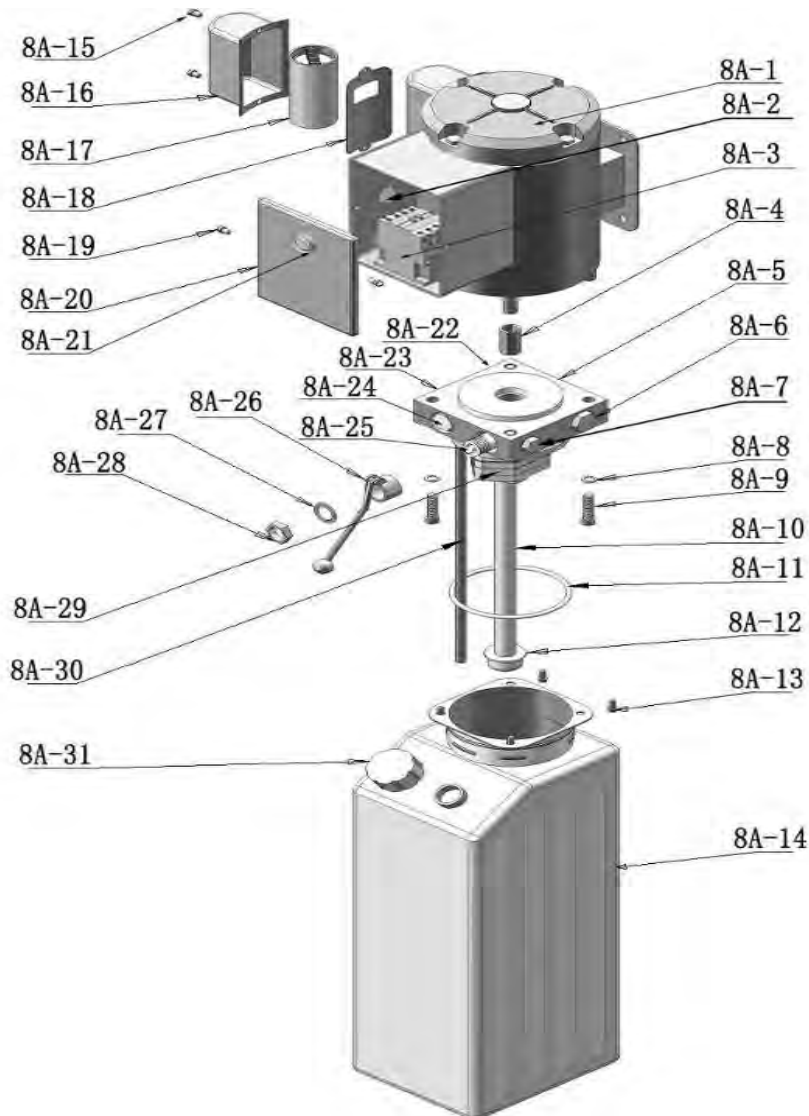
Exploded View



Cylinder Exploded View



Hydraulic Power Unit Exploded View



PEAK hydraulic power unit

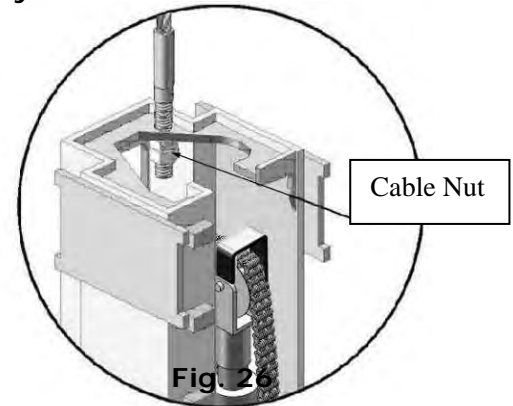


V. TEST RUN

1. Adjust Synchronizing Cables (See Fig. 26)

Use a crescent wrench to hold the cable end and
Use a ratchet or wrench to tighten the cable nut.
Make sure the two cables have the same tension.
The two carriages should go up and down at the same time.
Install the plastic grommet covers on the carriages.

First Safety Lock



- a. Press **UP** button to lift the carriages past the first safety lock. Then lower the carriages on the first set of safety locks.
- b. Loosen the safety cable lock nuts. Release the safety lock on the side that is in a higher position. The other side safety lock is engaged. Then lower the lift down. The side with the carriage in the lower position will be locked and the other side is unlocked. Continue to lower down the lift until both carriages are at the same level.
- c. Tighten the cable nut on the synchronizing cables, and tighten the safety cable with the lock nuts, raise the lift again, adjust the cables if needed.

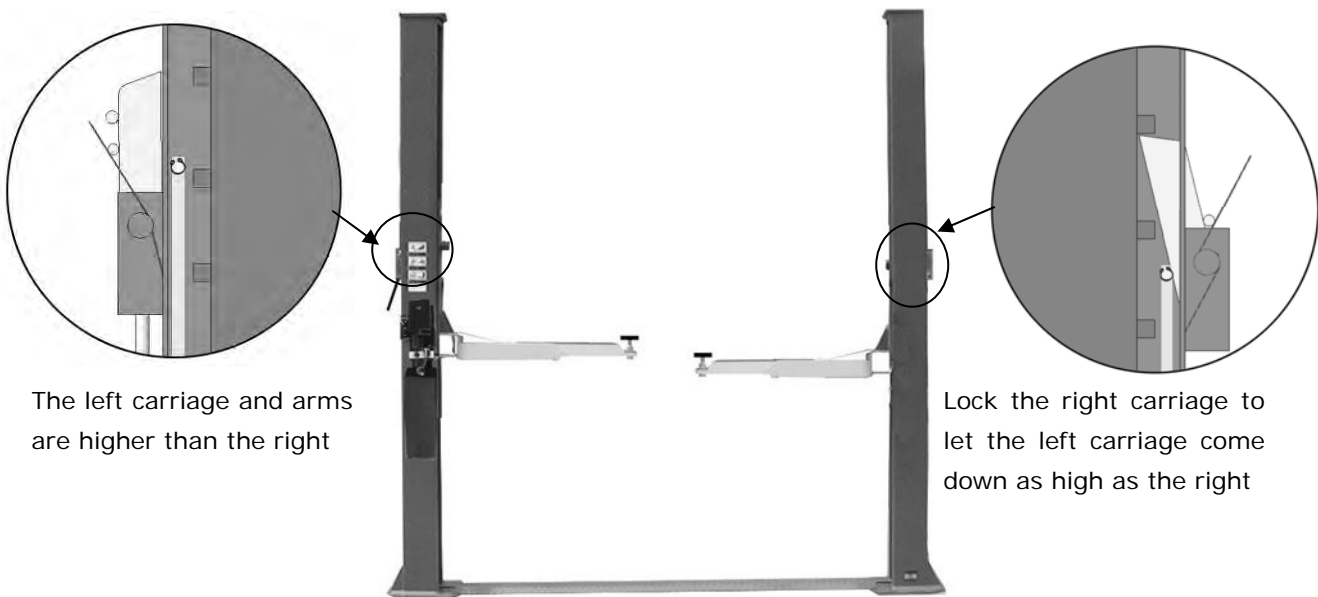


Fig. 27

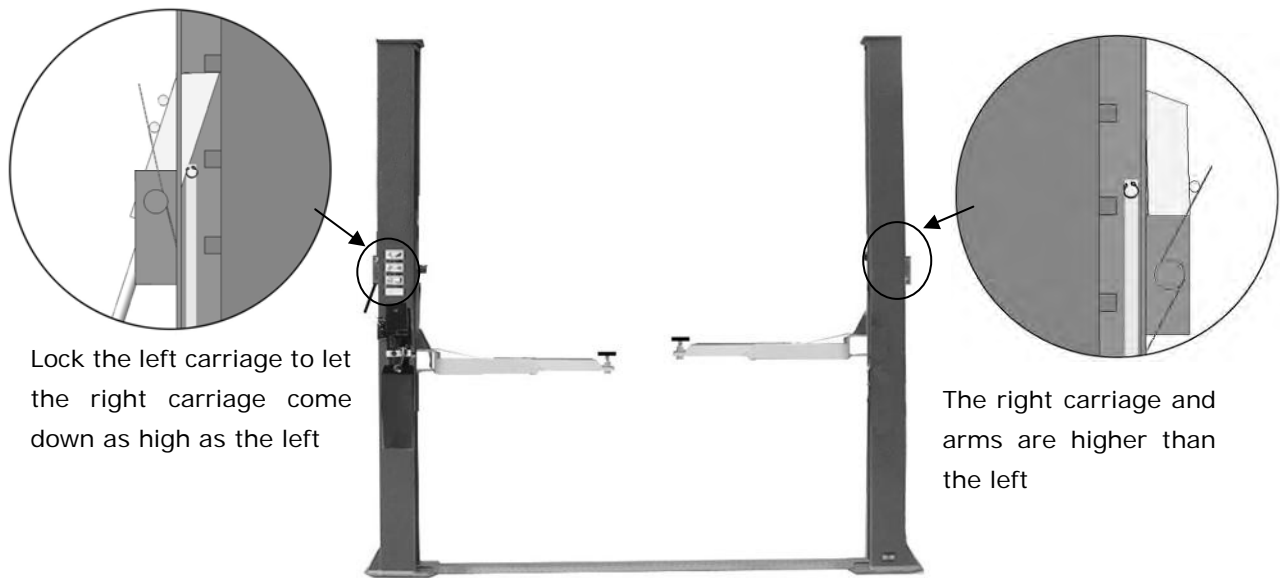


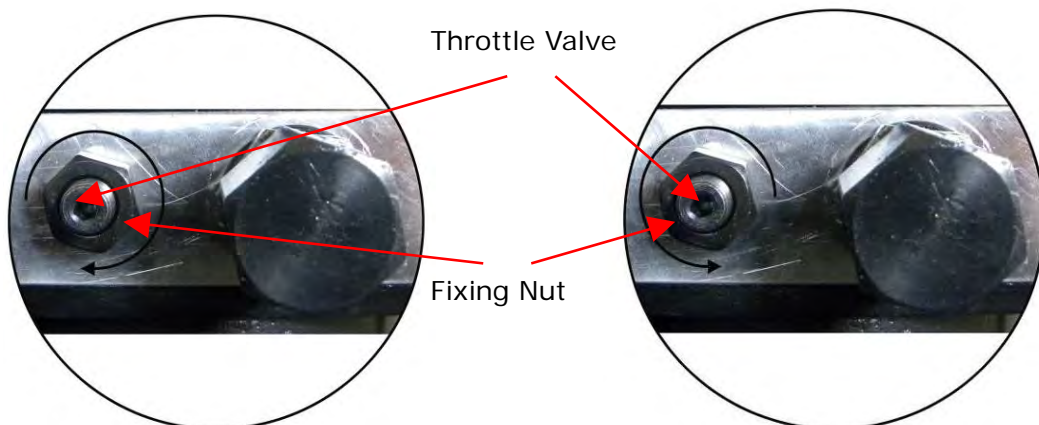
Fig. 28

2. Adjusting the Safety Cable

Raise the carriages to same height and lower on the safety locks, tighten the safety cable and then release the tension a little, and then tighten the cable nuts.

3. Adjust the Lowering Speed

You can adjust the lower speed of the lift if needed: Loosen the locking nut on the Throttle Valve, and then turn the Throttle Valve clockwise to decrease the lowering speed, or counterclockwise to increase the lowering speed. Do not forget to tighten the locking nut after the lowering speed adjustment has been done.



Clockwise to decrease the down speed

Fig. 29

Counterclockwise to increase the down speed

4. Test with load

Test run the lift with a load. Run the lift in low position several times, make sure the lift carriages can raise and lower at the same time. The safety locks should engage and release at the same time. Test run the lift to the top and bottom. The above steps may need to be repeated if the lift arms raise or lower at different intervals.

NOTE: The lift arms may vibrate on the way down. This means that air is trapped in the cylinder(s). By raising and lowering the lift several more times, the air will bleed out automatically.

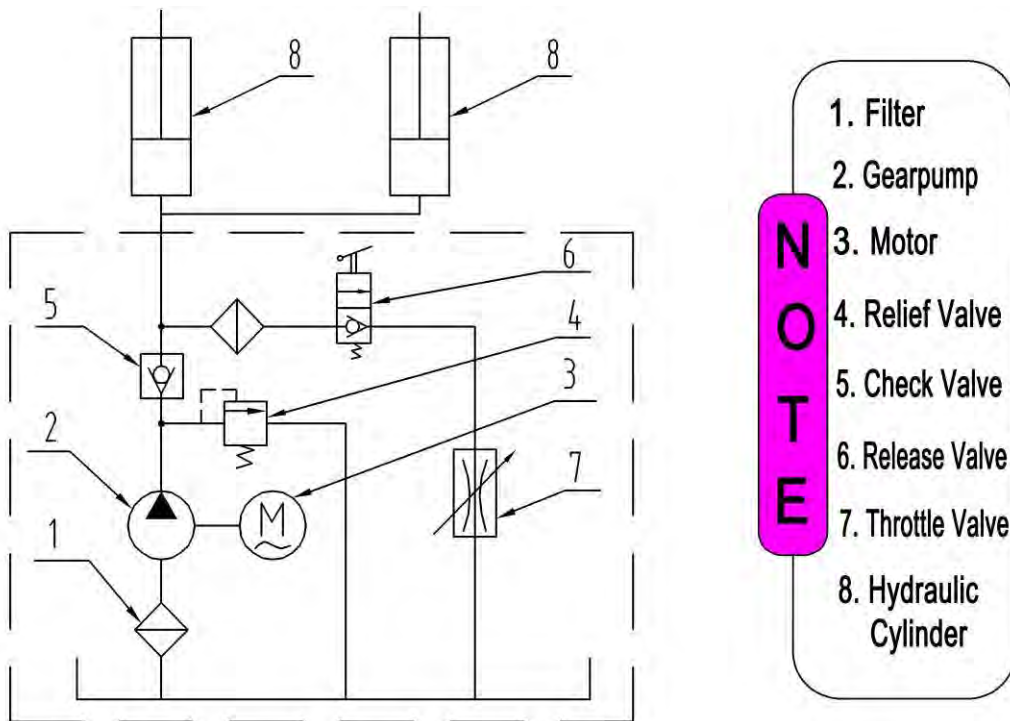


Fig. 30 Hydraulic System

VI. OPERATION INSTRUCTIONS

Please read the safety tips carefully before operating the lift

To lift vehicle

1. Keep of environment near the lift clean;
2. Position lift arms to the lowest position;
3. Position vehicle between columns evenly;
4. Move arms to the vehicle's lifting points;

Note: The four lift arms must contact the vehicle's lifting point at the same time.

5. Press the **UP** button until the lift pads contact underside of vehicle. Check to make sure the vehicle is secure;
6. Continue to raise the lift slowly to the desired working height, ensuring the balance of the vehicle;
7. Push lowering handle to lower lift onto the nearest safety locks. The vehicle is ready to repair.

To lower vehicle

1. Be sure that the area around and under the lift is clear, only leaving operator in lift area;
2. Press the button of **UP** to raise the vehicle slightly, and then release and hold the safety lock handle, lower vehicle by pushing lowering handle on the power unit.
3. Open the arms and position them to the shortest length;
4. Drive away the vehicle.
5. Turn off the power.

VII.MAINTENANCE SCHEDULE

Monthly:

1. Re-torque the anchor bolts to 100 foot pounds;
2. Check all connectors, bolts and pins to insure proper mounting;
3. Lubricate cable with lubricant;
4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
5. Check Safety locks and make sure they operate properly. Adjust if needed;
6. Lubricate all Rollers and Pins with 90wt. Gear oil or equivalent;

Note: All anchor bolts should take full torque. If any of the bolts do not function for any reason, DO NOT use the lift until the bolt has been replaced.

Every six months:

1. Make a visual inspection of all moving parts for possible wear, interference or damage.
2. Check and adjust as necessary the tension of the cables to insure level lifting.
3. Check columns for plumb.
4. Check Rubber Pads and replace as necessary.
5. Check Safety locks and make sure they operate properly. Adjust if needed.

VII. TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	<ol style="list-style-type: none"> 1. Button does not work 2. Wiring connections are not in good condition 3. Motor burned out 4. Height Limit Switch is damaged 5. AC contactor burned out 	<ol style="list-style-type: none"> 1. Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace the Limit Switch 5. Replace AC Contactor
Motor runs but the lift will not raise	<ol style="list-style-type: none"> 1. Hydraulic pick up tube cracked 2. Gear Pump out of operation 3. Release Valve in damage 4. Relief Valve or Check Valve is damage 5. Low oil level 	<ol style="list-style-type: none"> 1. Remove tank and replace 2. Repair or replace 3. Repair or replace 4. Repair or replace 5. Fill tank
Lift does not stay up	<ol style="list-style-type: none"> 1. Release Valve stuck open 2. Relief Valve or Check Valve leakage 3. Cylinder or Fitting leaks 	Repair or replace
Lift raises slowly	<ol style="list-style-type: none"> 1. Oil line is jammed 2. Motor running on low voltage 3. Oil mixed with air 4. Gear Pump leaks 5. Overload lifting 	<ol style="list-style-type: none"> 1. Clean the oil line 2. Check Electrical System 3. Fill tank 4. Replace Pump 5. Check load
Lift will not lower	<ol style="list-style-type: none"> 1. Safety locks out of adjustment 2. Release Valve stuck in closed position 3. Safety cable broken 4. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release and readjust 2. Repair or replace 3. Replace 4. Clean the oil system

IX. Parts List For Model BP9000x

B. Parts for Model BP9000X

Item.	Part No.	Description	Qty.	Note
1	203001	Power Side Post	1	
2	209011	Plastic Pulley	1	
3	209010	Snap Ring	2	
4	209008	Safety Cover	2	
5	209009	Cup Head Bolt	4	
6	206006	Washer	2	
7	206023A	Hex Nut	2	
8	209002	Hydraulic Power Unit	1	
9	209006	Safety Pin	2	
10	209007	Safety Spring	2	
11	203002	Power Side Safety Assembly	1	
12	209012	Hair Pin	8	
13	203015	Safety Block (Main Side)	1	
14	209003	Hex Bolt	4	
15	209004	Rubber Ring	4	
16	209005	Nylock Nut	8	
17	203003	Floor Cover	1	
18	680030	Rubber Pad Frame Support	4	
19	209039	Spring Washer	14	
20	209038	Hex Bolt	6	
21	209057	Small Pulley	4	
22	209056	Nylock Nut	2	
23	201010	Chain Connector	4	
24	203005	Chain	2	
24A	201042	Chain Protective Cover	2	
25	201008	Hydraulic Cylinder	2	
26	201007	Pin For Chain Pulley	2	
27	203004	Chain Pulley	2	
27A	203004A	Bronze bush for Chain Pulley	4	
28	201005	Split Pin	2	
29	201004	Chain Pulley Assy.	2	
30	203007	Power Side Lifting Head	1	
31	206044	Slider (Wear Blocks)	16	
32	209016	Carriage Plastic Cover	2	
33	206045	Protective Rubber	2	
34	206046	Self-tapping Screw	4	
35	209020	Plastic Ball	4	
36	209021	Hex Nut	12	
37	209022	Washer	12	

38	209023A	Teeth	4	
39	209024	Arm Lock Bar	4	
40	209025	Hair Pin	4	
41	209026	Spring	4	
42	209027	Protective Rubber Set	4	
43	201012C	Lifting Arm - Front Right (Drop-in)	1	
44	201013C	Lifting Arm - Front Left (Drop-in)	1	
45	201014B	Lifting Arm - Rear Left (Drop-in)	1	
46	203008	Offside Lifting Head	1	
47	201016B	Lifting Arm - Rear Right (Drop-in)	1	
48	209035	Gear	4	
49	209033	Washer	20	
50	209034	Spring Washer	12	
51	209032	Socket Bolt	12	
52	209030	Lifting Arm Pin	4	
53	203009	Connecting Bar	2	
54	209043	Hex Bolt	8	
55	209046	Hex Bolt	4	
56	203010	Top plate	2	
57	209045	Big Pulley	2	
58	209057A	Bronze Bush For Pulley	6	
59	203011	Offside Post	1	
60	209049	Plastic Pulley	3	
61	203012	Offside Safety Assembly	1	
62	203013	Coupling	2	
63	203014	Safety Block (Second Side)	1	
64	203018	Socket Bolt	4	
65	203016	Snap Ring	4	
65A	209051	Stackable Adapter (1.5")	4	
65B	209052	Stackable Adapter (3")	4	
65C	209053	Stackable Adapter (6")	4	
66	209059	Anchor bolt	12	
Oil Hose, Fittings & Cables				
67	209060	90° Fitting for Hydraulic Power Unit	1	
68	201021	Oil Hose	1	
69	201022	T-Fitting	1	
70	203019	Oil Hose	1	
71	201020	90° Fitting	1	
72	203020	Cable	2	
73	209066	Cable Nut	4	
74	203021	Safety Lock Cable	1	

Parts For Hydraulic Cylinder

25-1	201027	Piston Rod	2	
25-2	201028	Piston	2	
25-3	206069	O-Ring	2	
25-4	201029	Support Ring	2	
25-5	201030	Y-Ring	2	
25-6	201031	O-Ring	2	
25-7	206071	Hex Nut	2	
25-8	201037	Adjustment Tube	2	
25-9	209078	Dust Seal	2	
25-10	201032	O-Ring	2	
25-11	201033	Head Cap	2	
25-12	201034	Bleeding Plug	2	
25-13	201035	O-Ring	2	
25-14	201036	Bore Weldment	2	

Parts List for Power Unit for Model BP9000X

Item.	Part No.	Description	Qty.	Note
8A-1	209082A	Motor	1	
8A-2	209109	Protective Ring	1	
8A-3	209112	AC contactor	1	
8A-4	209083A	Motor Connecting Shaft	1	
8A-5	209084A	Valve Body	1	
8A-6	209085A	Relief Valve	1	
8A-7	209113	Throttle valve	1	
8A-8	209086A	Spring Washer	4	
8A-9	209087A	Socket Bolt	4	
8A-10	209088A	Inlet Pipe	1	
8A-11	209089A	O-Ring	1	
8A-12	209090A	Filter	1	
8A-13	209091A	Socket bolt	4	
8A-14	209092A	Reservior	1	
8A-15	209093A	Cup Head Bolt	4	
8A-16	209094A	Cover of Capacitor	2	
8A-17	209095A	Capacitor	2	
8A-18	209096A	Rubber Gasket	2	
8A-19	209097A	Cup Head Bolt	2	
8A-20	209098A	Cover of Motor Terminal Box	1	
8A-21	209099A	Push Button	1	
8A-22	209110A	Oil Return Port	1	
8A-23	209100A	Oil Outlet	1	
8A-24	209105A	Check Valve	1	
8A-25	209101A	Release Valve	1	
8A-26	209102A	Handle For Release Valve	1	
8A-27	209103A	Washer	1	
8A-28	209104A	Hex Nut	1	
8A-29	209106A	Gear Pump	1	
8A-30	209107A	Oil Return Pipe	1	
8A-31	209108A	Filler Cap	1	