



Atlas OH9000

9,000 lb. Capacity

Two-Post Overhead Lift

INSTALLATION & OPERATION MANUAL



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I. PRODUCT FEATURES AND SPECIFICATIONS

CLEAR-FLOOR DIRECT-DRIVE MODEL FEATURES

Model OH9000 & OH9000EH (See Fig. 1)

- Direct-drive design
- Dual hydraulic cylinders, designed and made on ANSI standards, utilizing NOK oil seals for the cylinders
- Self- lubricating UHMW Polyethylene sliders and bronze bushings
- Single-point safety release and dual safety design
- Clear-floor design
- Overhead safety shut-off device prevents vehicle damage
- Super-symmetric arms design with stackable truck adapters
- Adjustable heights (2)

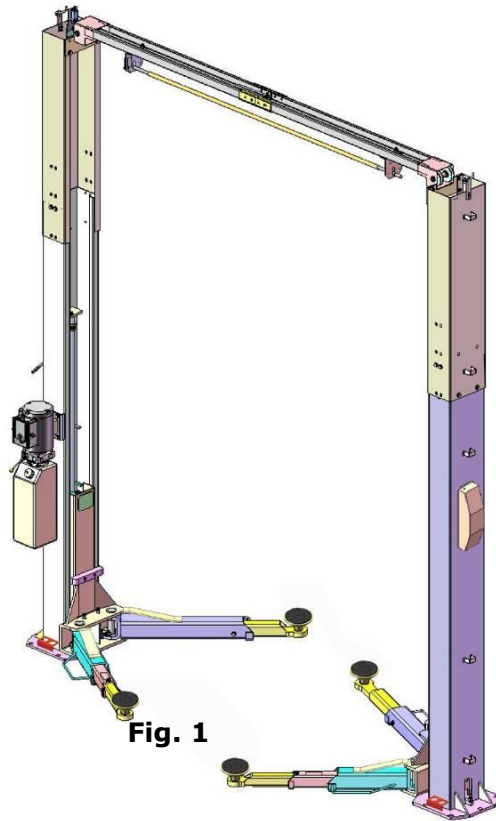


Fig. 1

MODEL OH-9000 SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width Between Posts	Minimum Pad Height for screw adapters	Minimum Pad Height for stackable adapter	Motor
209C	Clear-floor Direct-drive	4.0 T 9,000 lbs	52 S	1830-2100 mm 72" – 82 1/2"	3621/3821 mm 142 1/2" 150 1/2"	3428 mm 135"	2850 mm 112 1/4"	100 mm 4"	105 mm 4 1/8"	2.0/3.0 HP
209CH	Clear-floor Direct-drive	4.0 T 9,000 lbs	52 S	1830-2100 mm 72" – 82 1/2"	4231/4431 mm 166 1/2" 174 1/2"	3428 mm 135"	2850 mm 112 1/4"	100 mm 4"	105 mm 4 1/8"	2.0/3.0 HP

Arm Swing View For Model OH-9000

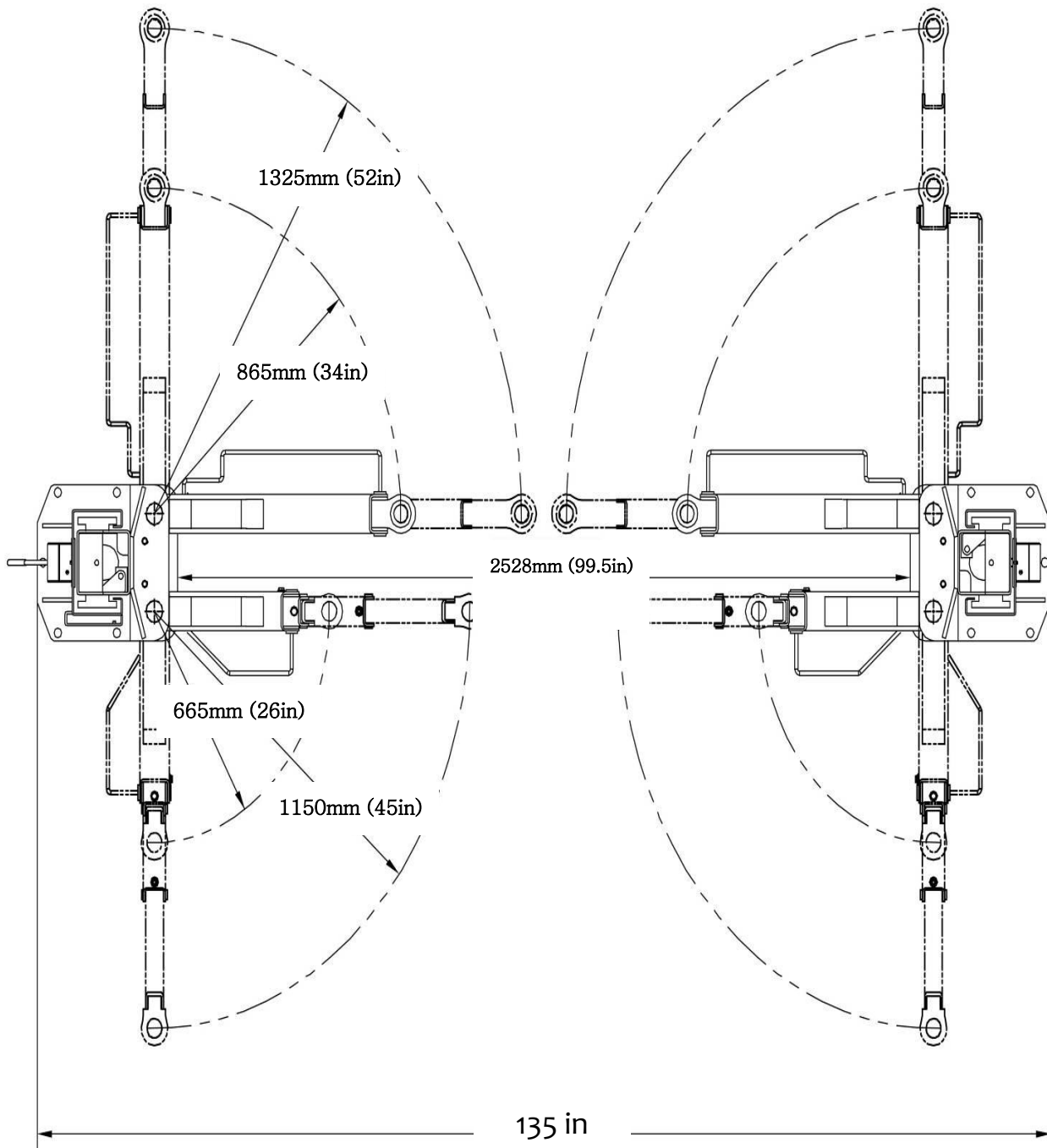


Fig. 2

II. INSTALLATION REQUIREMENTS

A. TOOLS REQUIRED

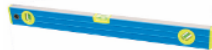
- ✓ Rotary Hammer Drill



- ✓ Hammer



- ✓ Level Bar



- ✓ Crescent Wrench (12")



- ✓ ½ Drive Ratchet



- ✓ Wrench Set

(8#, 10#, 13#, 14#, 17#, 19#, 24#)



- ✓ Carpenter's Chalk



- ✓ Screw Drivers



- ✓ Tape Measure



- ✓ Pliers



- ✓ Allen Head Wrench (3#, 5#, 8#)



✓

- Vise Grips



Fig. 3

B. CONCRETE SPECIFICATIONS (See Fig. 4)

Specifications Of Concrete Must Be Adhered To.

Failure To Follow Concrete Specifications May Result In Lift Failure

1. Concrete must be thickness (4 in.) minimum and does not interfere with steel bars and must be cured before the installation.
2. Concrete must be in good condition and must be have a strength of 3,000 psi
3. Floors must be level and with no structural cracks.

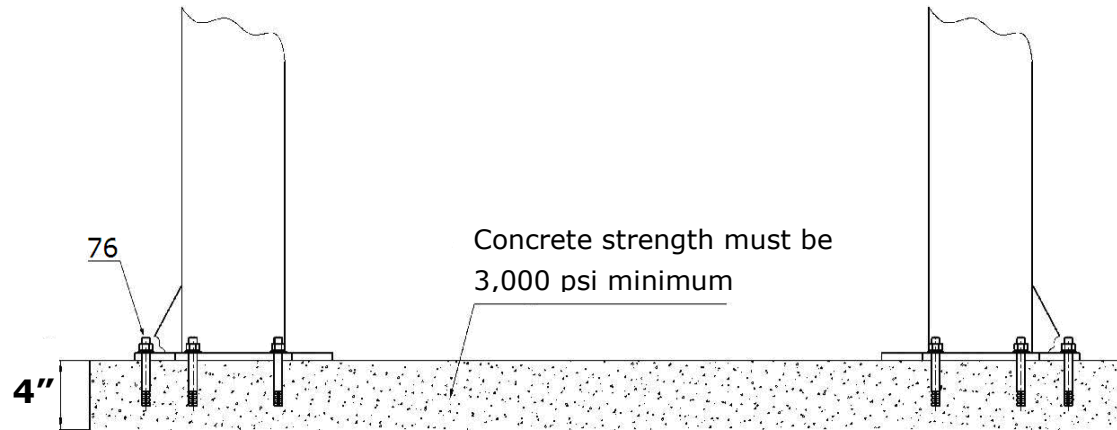


Fig. 4

C. POWER SUPPLY

220 volt single phase 30 amp breaker with minimum of 10 gauge wiring

III. INSTALLATION STEPS

A. Installation Location

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

B. Use a carpenter's chalk line to establish installation layout of the base plate (See Fig. 5).

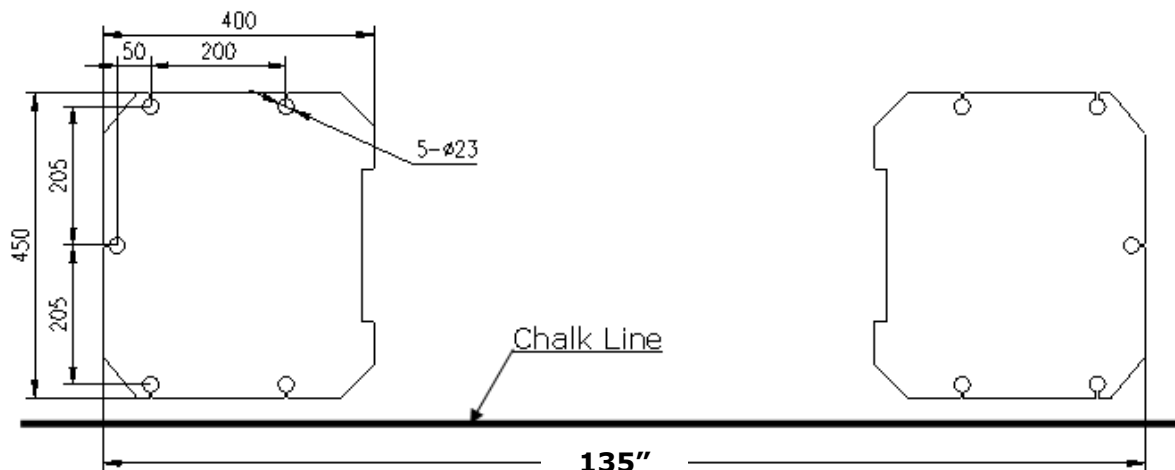


Fig. 5

C. Check the Parts Before Assembly. Do not attempt to install the lift before this step is completed!

1. Packaged lift and Hydraulic Power Unit (See Fig. 6).



Fig. 6

2. Move aside the lift with fork lift or hoist, and open the outer packing carefully (See Fig. 7).

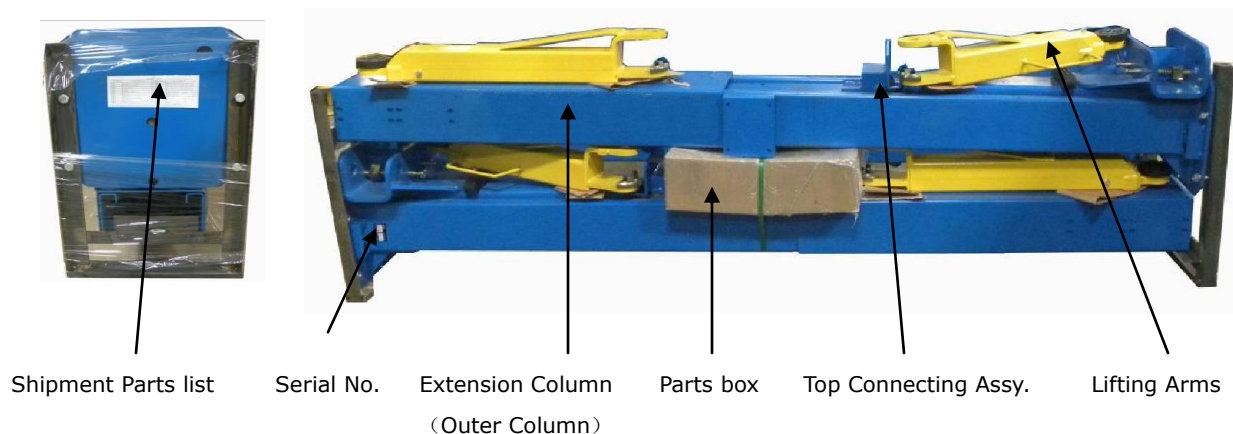


Fig. 7

3. Take off the lifting arms and parts box from upper and inside the column, then move them to location nearby installation site. Loosen the screws of the upper package stand, take off the upper column and remove the package stand (See Fig. 8).

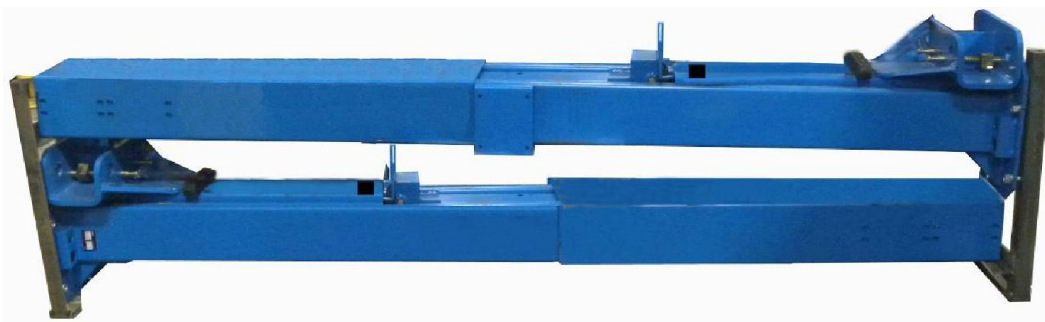
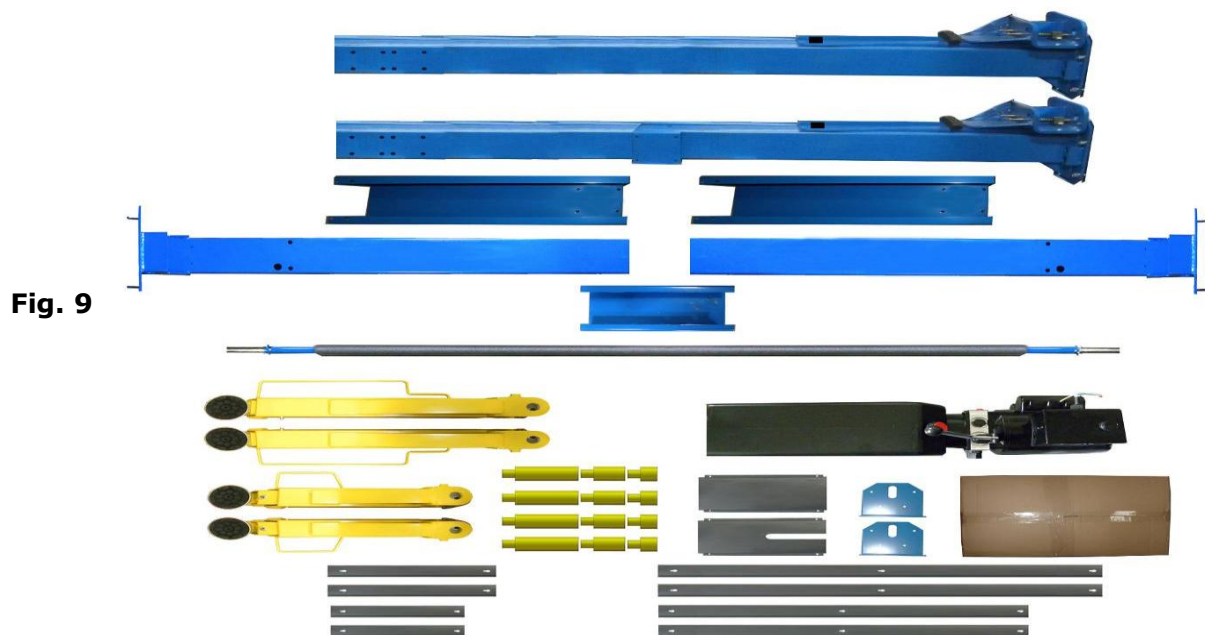


Fig. 8

4. Check the parts according to the shipment parts list (See Fig. 9)



5. Open the box of parts and check the parts according to parts box list (See Fig. 10).



Fig. 10 Model OH-9000

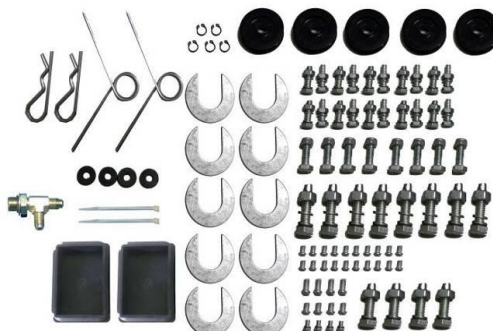
6. Check the parts of the part bags 1& 2 according to parts bag list (See Fig. 11 & Fig. 12).

Model 209C 209CH



Bag 1

Fig. 11



Bag 2

Fig. 12



D. Install parts of extension columns (See Fig. 13).

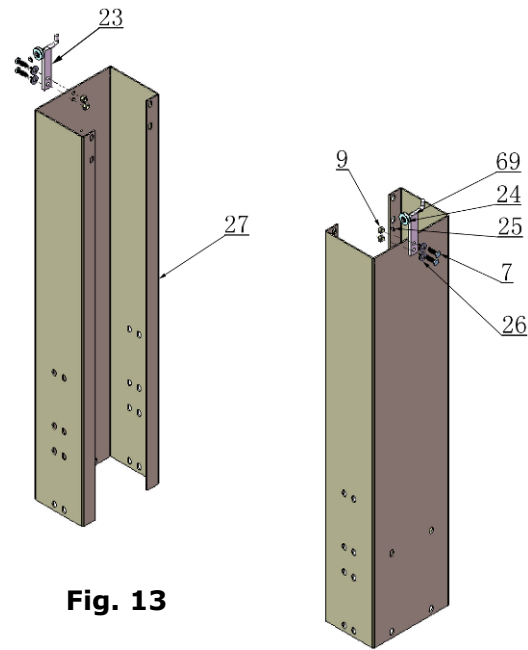


Fig. 13

E. Position Power side Post

Lay down the two posts in parallel formation.

Position the Power side Post according to the actual installation

location. Usually, it is suggested to install Power side Post on the passenger side from which vehicles are driven to the lift.

This lift is designed with 2-Section columns. Select adjustable height according to the ceiling height. When the ceiling height is greater than (12.6'), connect the outer columns with the upper holes (**See Fig.14**); Otherwise, we recommend connecting the outer columns with the lower holes to make the post lower (**See Fig.15**).

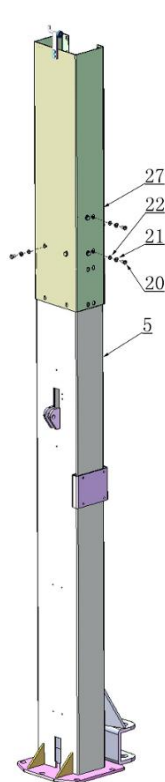


Fig. 14 Low Setting

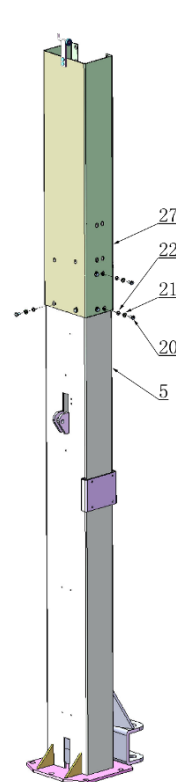


Fig. 15 High Setting

F. Position posts (See Fig. 16)

Position the columns on the installation layout of the base plate, shown in **step B**.

???WANT TO WORK SMART NOT HARD???

MAKE THE INSTALLATION EASY. DO IT LIKE A PROFFESIONAL LIFT INSTALLER

Position the columns upright on the installation layout. Position the offside column parallel to the power side column at the approximate overall width (135"). Install the overhead cross beam. Do not drill holes for anchor bolts until overhead cross beam has been installed.

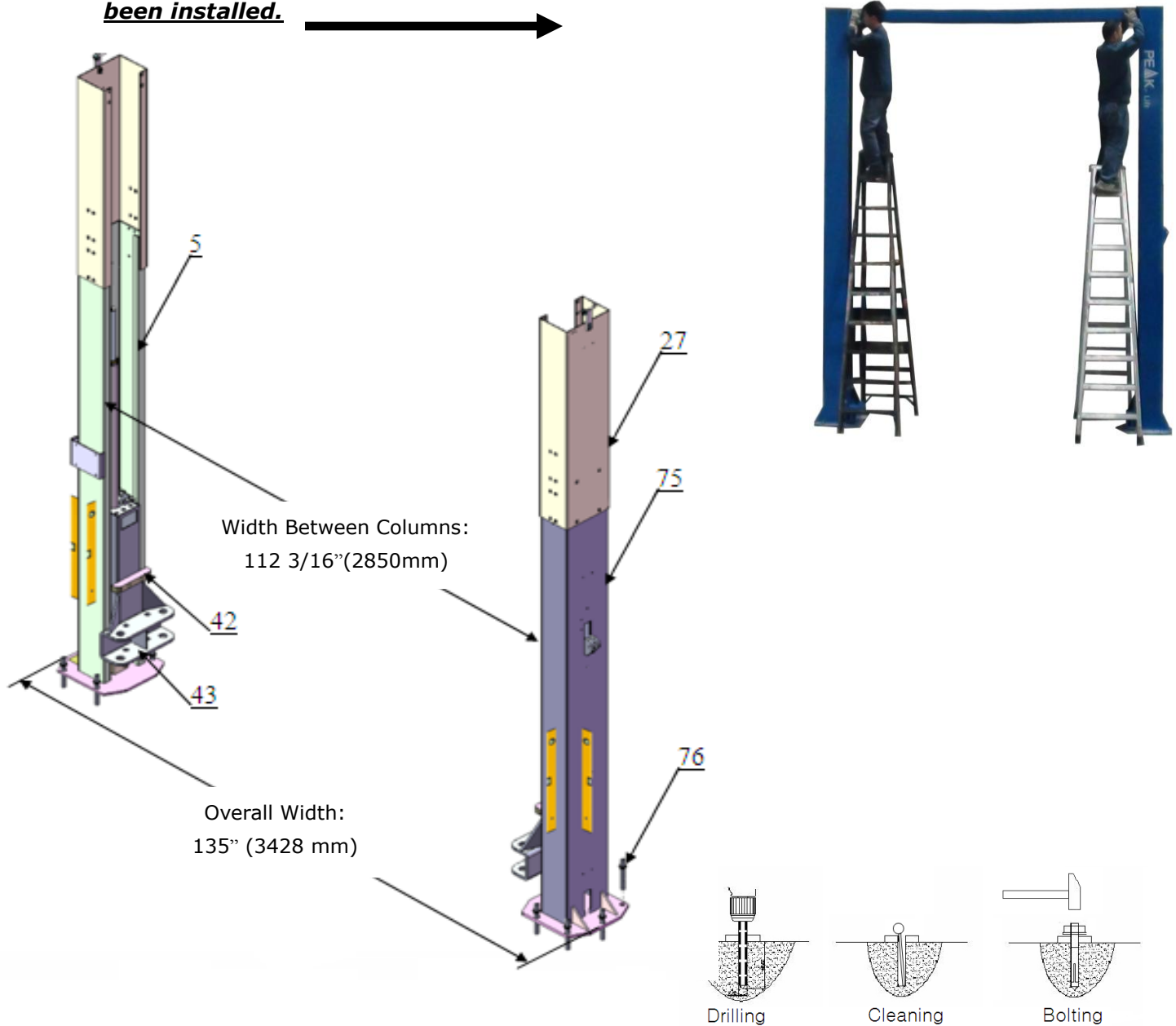


Fig. 16

Install the anchor bolts. Check the posts for plumb with level bar, and adjusting with the shims if the columns are not vertical. Do not tighten the Anchor Bolts.

G. Install Overhead Top Beam

1. With assistance on the top beam, put one side of top beam on top of the extension column and connect the top beam to the extension column by bolts, tighten the bolts. Then assemble the connecting bracket. **(See Fig. 17)**

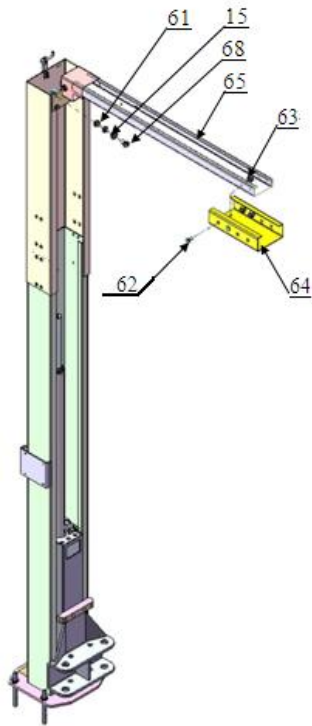
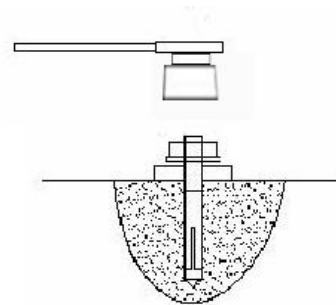
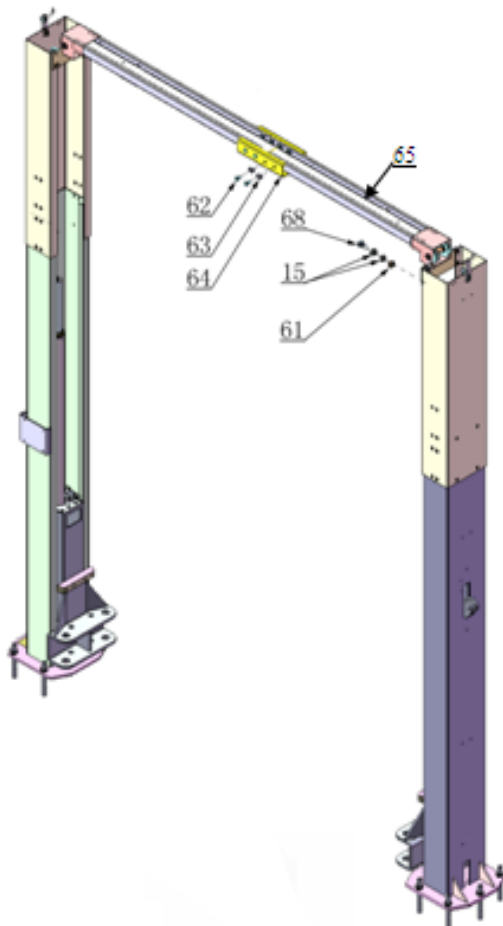


Fig. 17

2. Assemble overhead top beam, tighten the post's Anchor Bolts. **(See Fig. 18)**



**Tighten anchor bolt to
85-100 Foot LBS**

Fig. 18

H. Installing the Control Bar and Limit Switch (See Fig. 19).

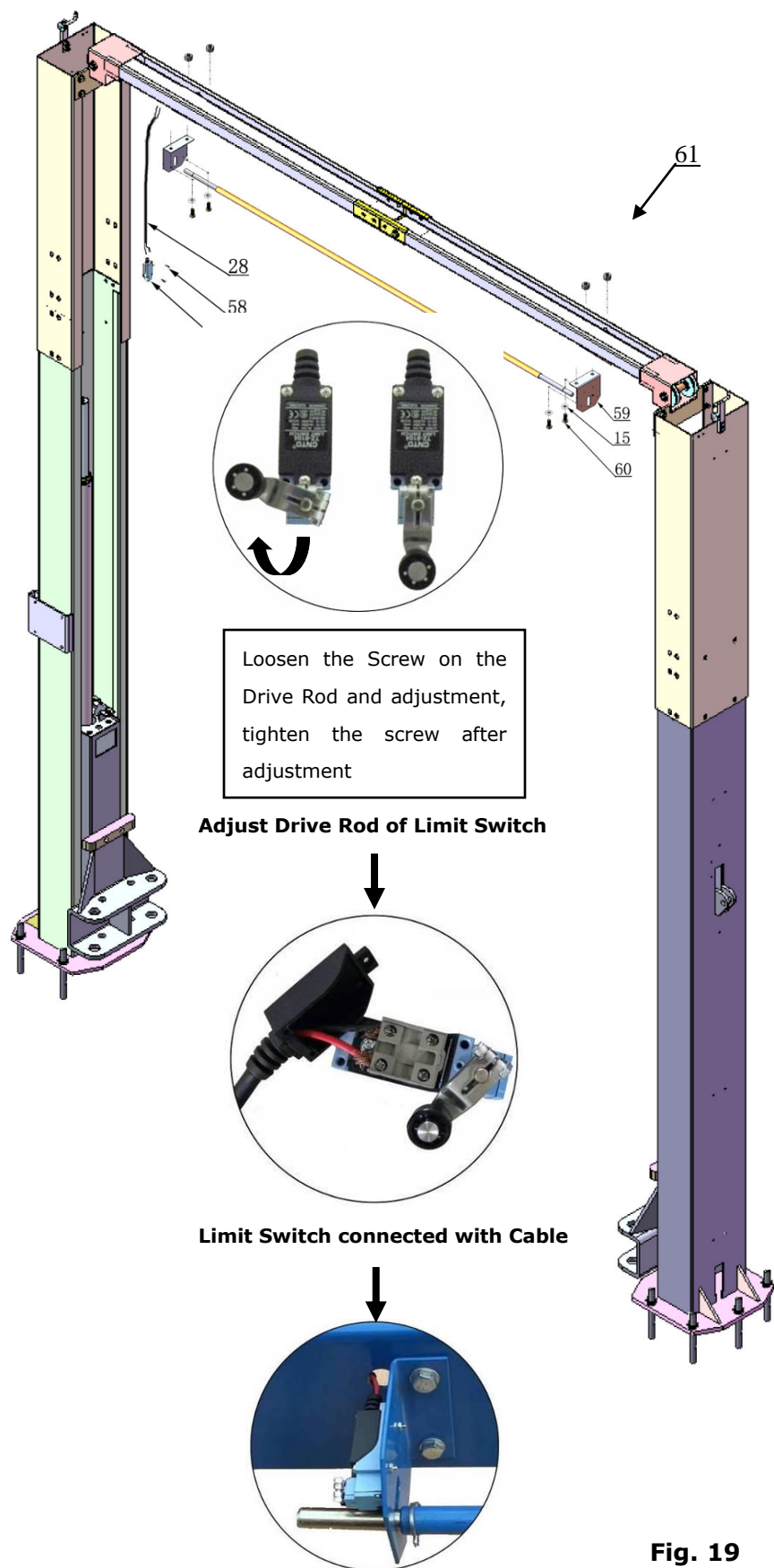


Fig. 19

Installing the Control Bar Bracket and Limit Switch

I. Install Safety Device (See Fig. 20 & Fig. 21).

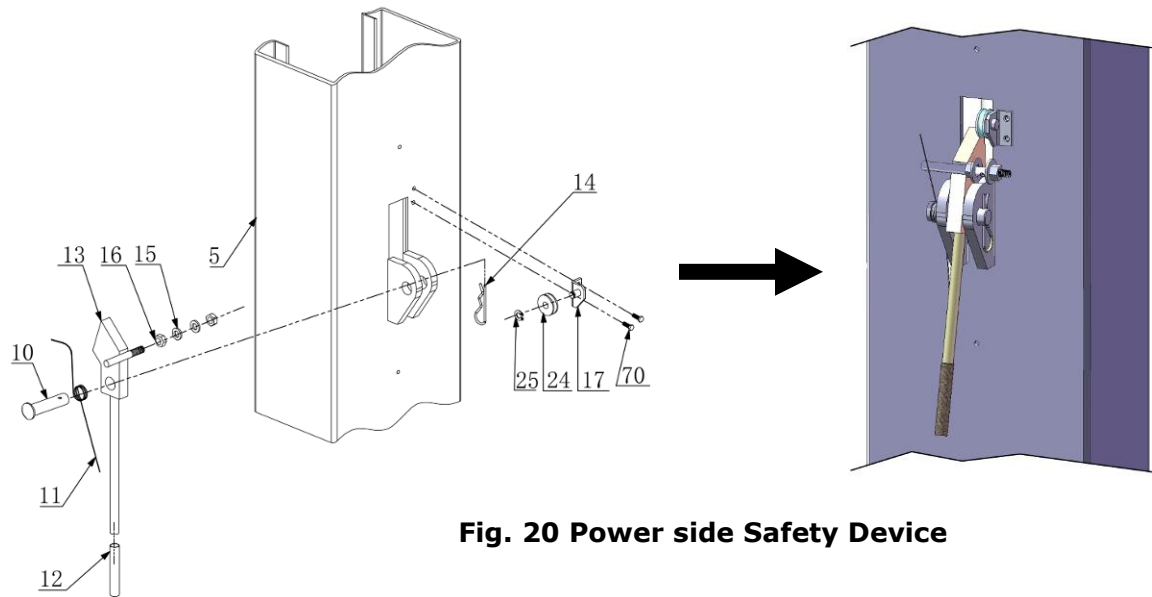


Fig. 20 Power side Safety Device

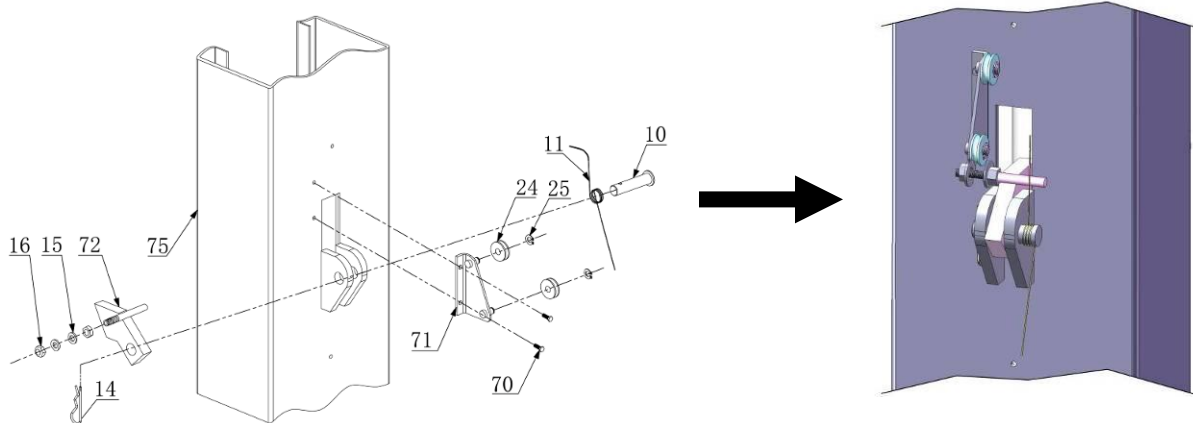


Fig. 21 Off side Safety Device

J. Lift the carriages up to about 3 feet high by hand and rest them on the locks at the same level (**See Fig. 22**).

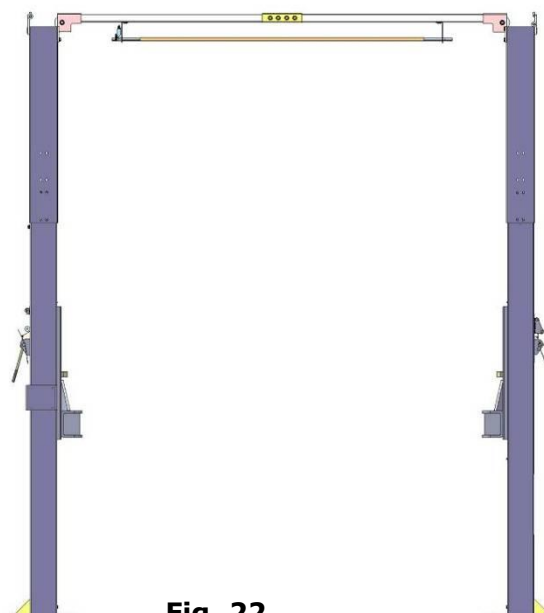


Fig. 22

K. Install Cables

There are two ways to install the cables, low setting and high setting connection.

a. For the low setting cable connection (**See Fig. 23**).

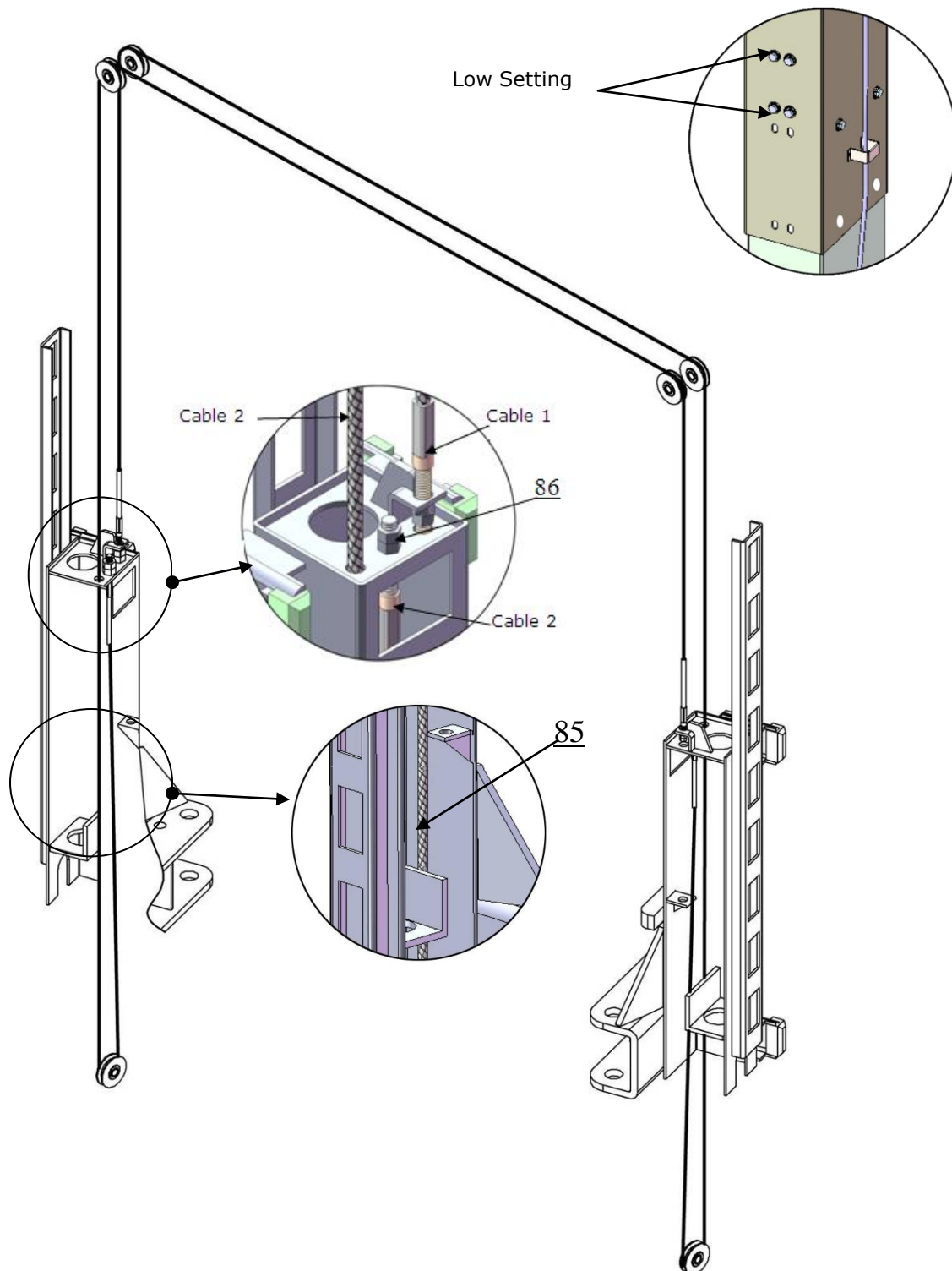


Fig. 23

b. For the high setting cable connection (**See Fig. 24**).

1. Cable pass through from the bottom of the carriages and are pulled out from the opening of carriages, then install the two Cable Nuts

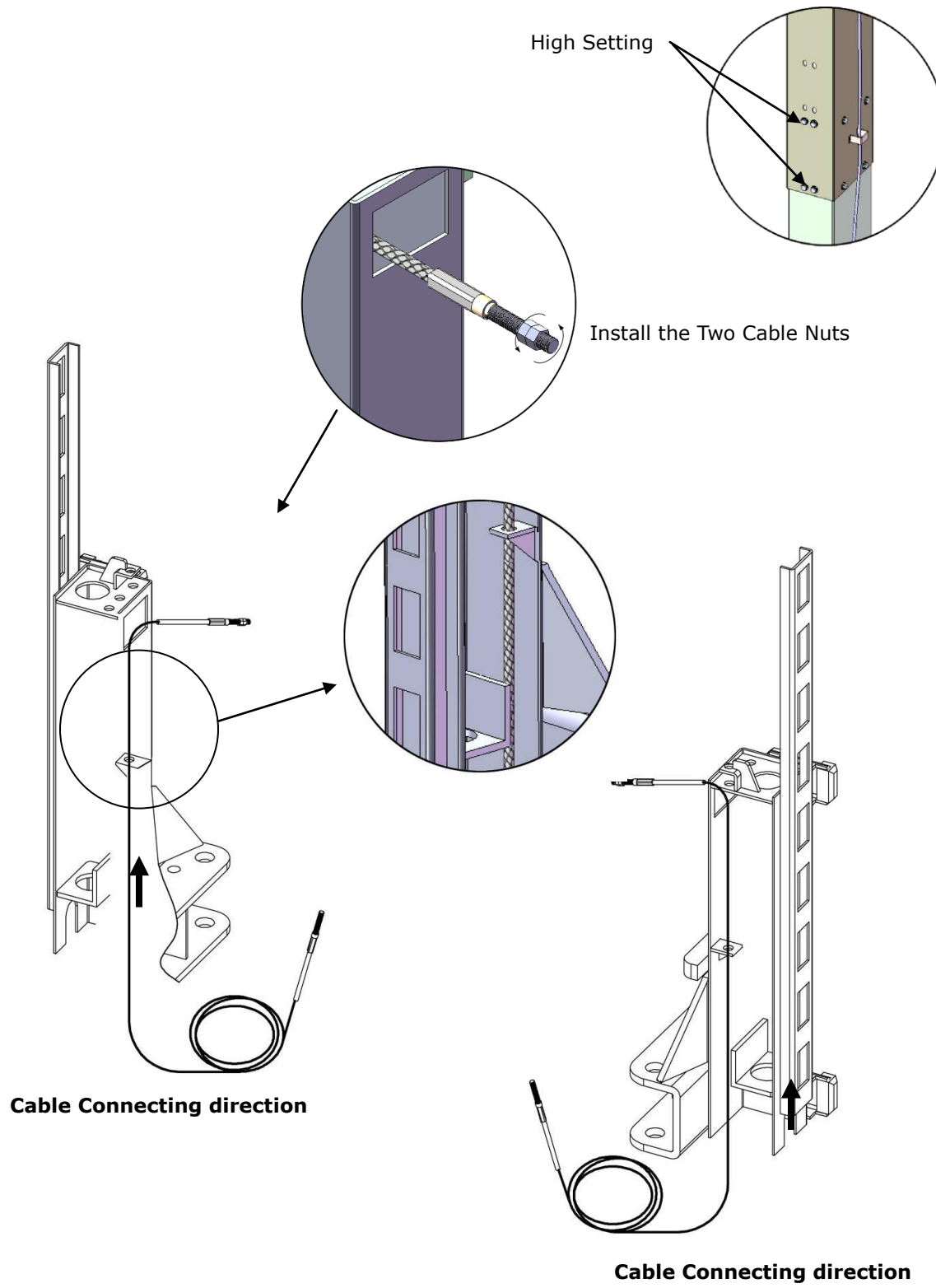


Fig. 24

2. Connecting Cable for high setting (**See Fig. 25**).

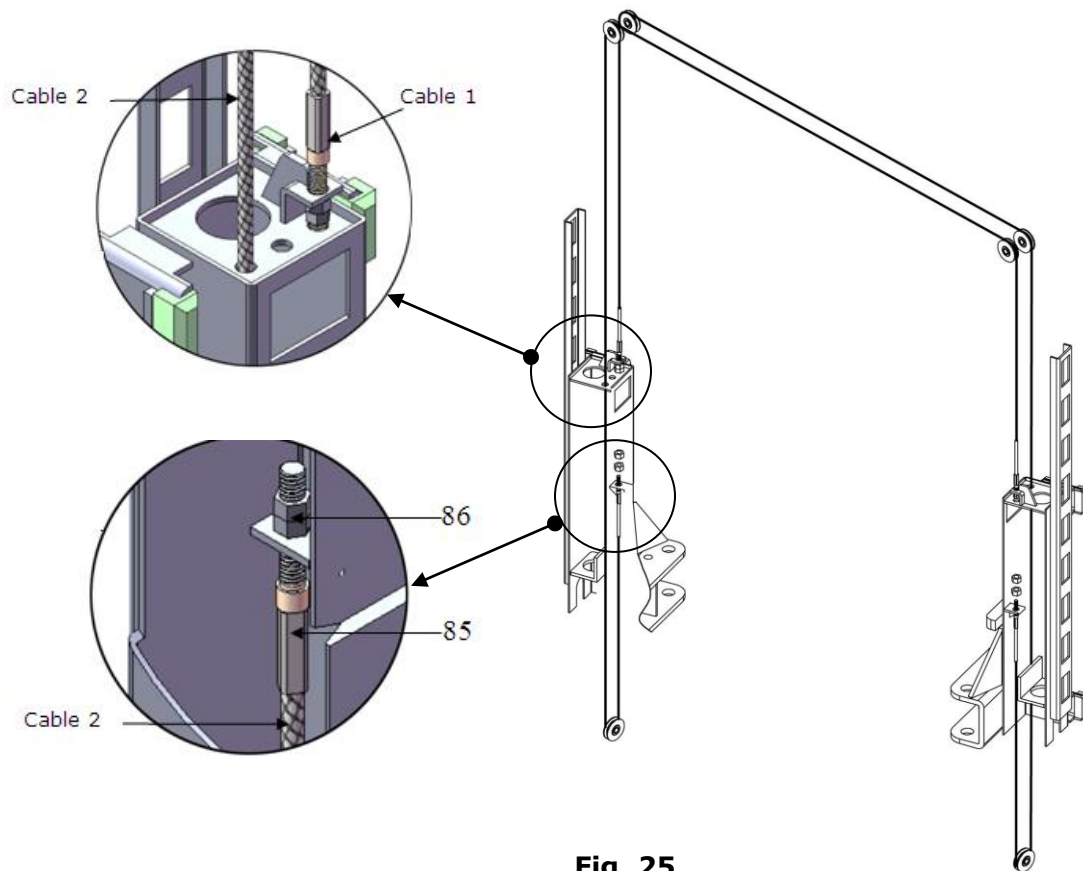


Fig. 25

L. Install Hydraulic Power Unit and Oil Hose Assembly (See Fig. 26).

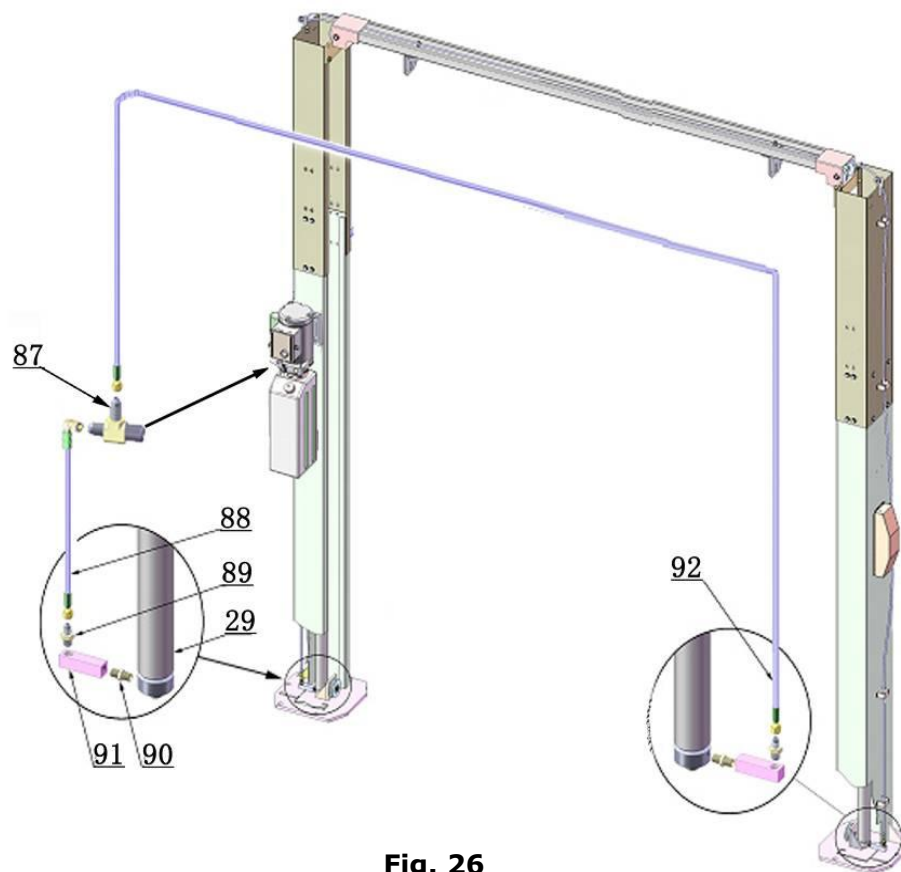


Fig. 26

M. Install Safety Cable (See Fig. 27)

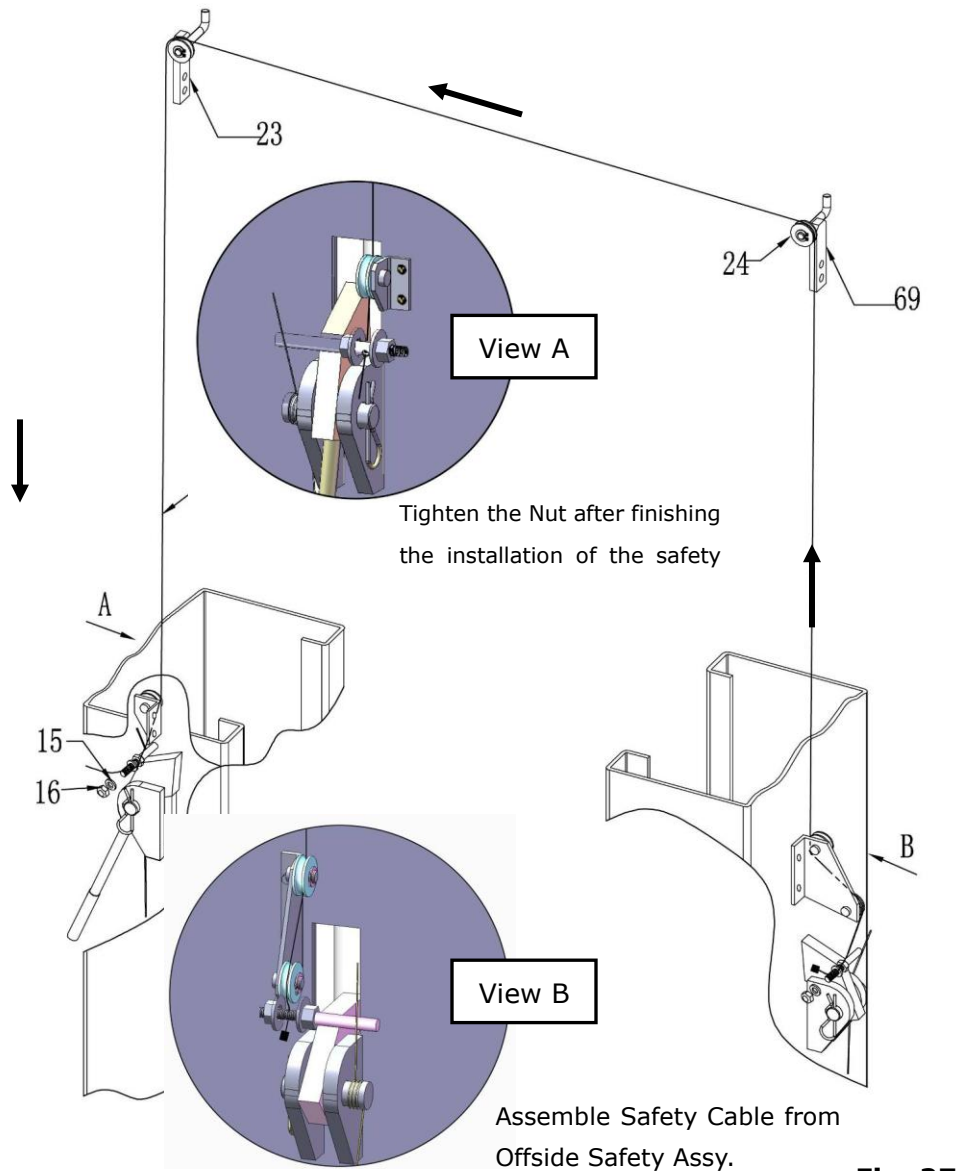
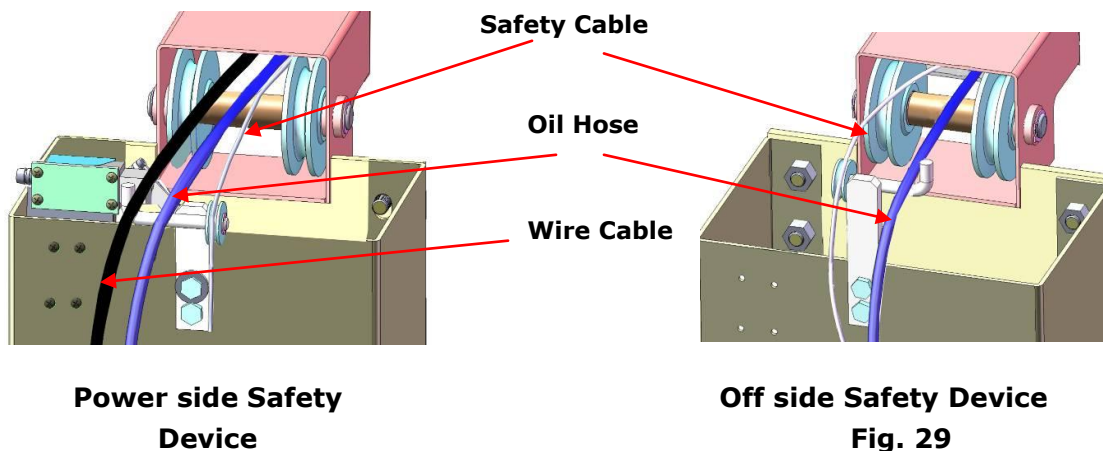


Fig. 27

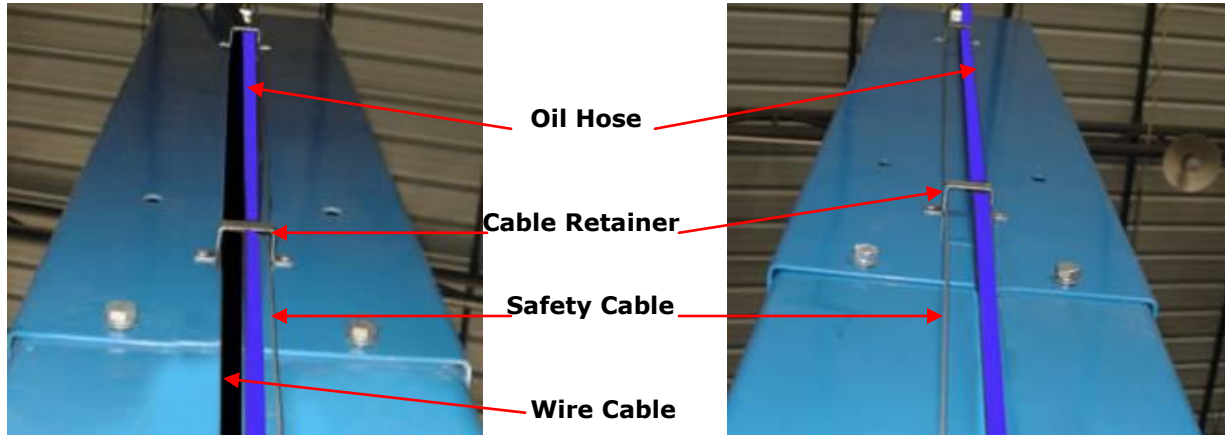
N. Assembly Cable Retainer

1. Install Oil Hose.

Note: Don't cross the oil hose and safety cable together (See Fig. 28 & Fig. 29).



2. Install Safety Cable and Oil Hose. (See Fig. 30 & Fig. 31 & Fig. 32)



Power side Safety Device

Fig. 30

Off side Safety Device

Fig. 31

The Safety Cable cannot be installed inside cable clamp on top of Overhead Beam

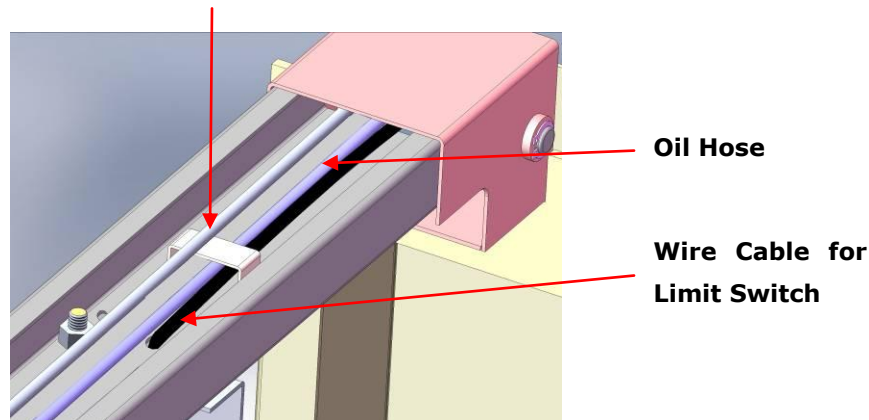


Fig. 32

O. Install Lifting Arms (See Fig. 33).

1. Install the Lifting Arms, adjust the Teeth of Arm Locks assembly so that it meshes with the Gear of Lifting Arm.
2. Tighten all the hydraulic fittings, and fill the Reservoir with Hydraulic Oil.

Note: In consideration of Power Unit's durability, please use Hydraulic Oil #46 or #32

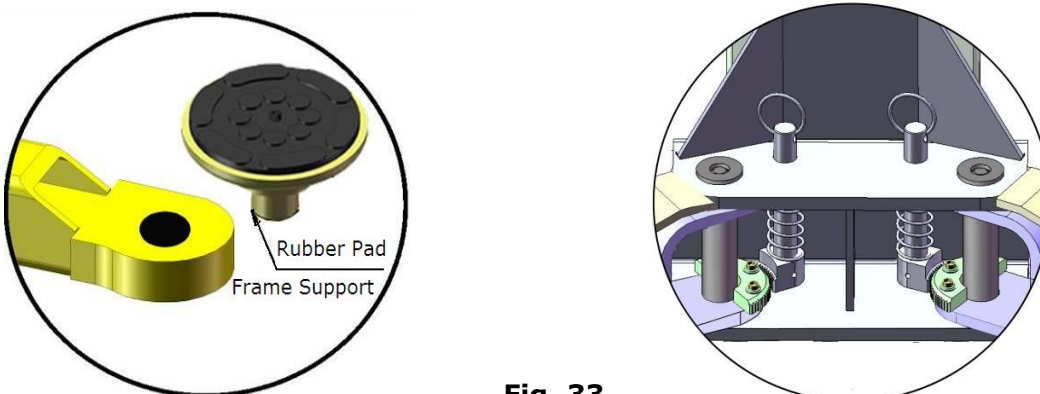


Fig. 33

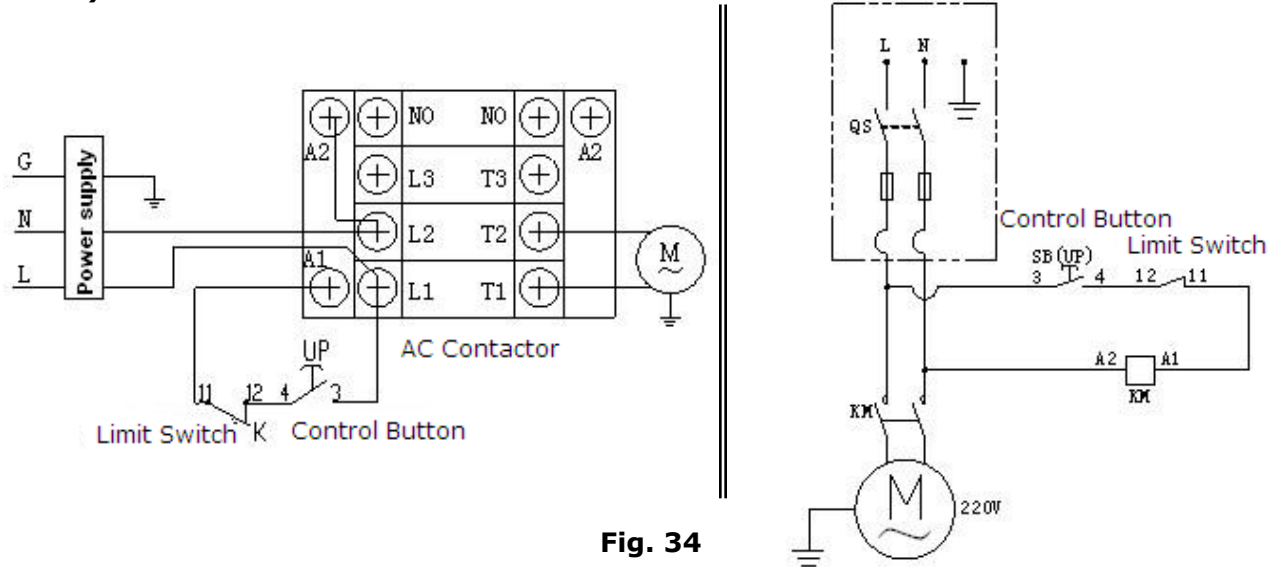
P. Install Electrical System

Connect the power according to the data plate on the Power Unit.

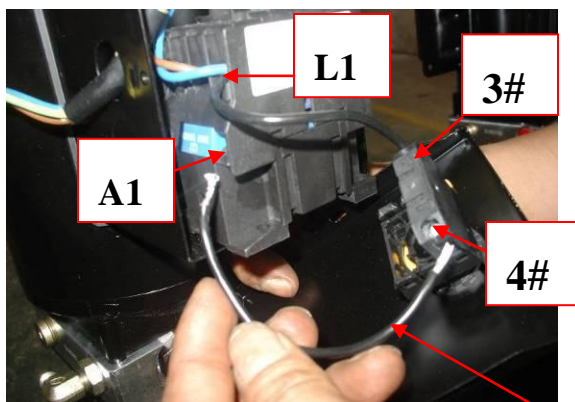
Note: 1. The power wiring must be grounded to avoid electrical shock

ATLAS single phase motor (See Fig. 34).

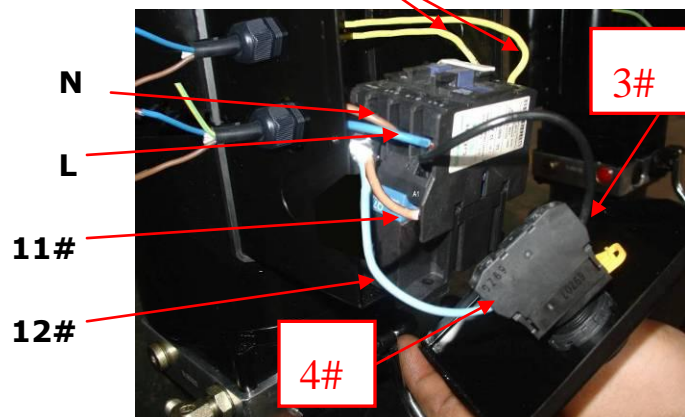
1. Connect the two power supply lines (fire wire **L** and zero wire **N**) to terminals on the AC contactor marked **L1, L2**.
2. Connect the two motor wires to terminals of AC contactor marked **T1, T2**.
3. Connect the jumper wire **A2** to **L2** on the AC contactor.
4. Connect the Limit Switch: Remove the line on Connecting Terminal **4#** of control button and **A1** of AC contactor first (See Fig. 35), connect wire **12#** Limit Switch with Terminal **4#** of control button and connect wire **11#** with terminals **A1** of AC contactor. (See Fig. 36)



Motor Line



Remove this line before connecting the Limit Switch



SPX single phase motor (See Fig. 37)

1. Power supply line (zero wire **N**) connected with wire **5#** of motor.
2. Wire **11#** of limit switch connected with wire **6#** of motor.
3. Wire **12#** of limit switch connected with wire **4#** of control button.
4. Power supply line (fire wire **L**) connected with wire **3#** of control button.

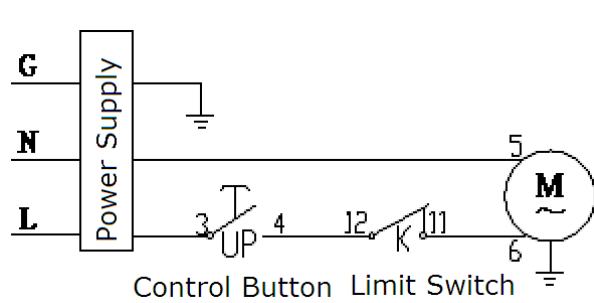


Fig. 37

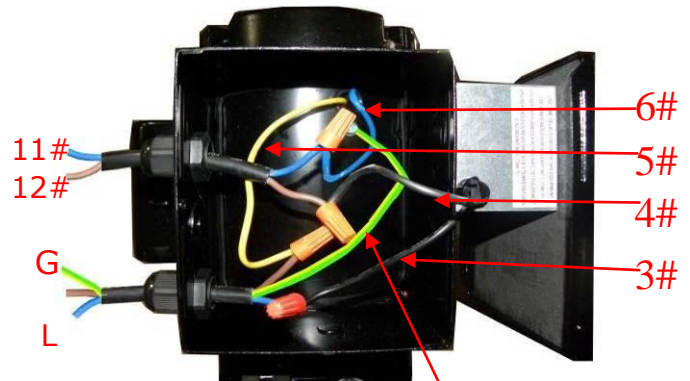


Fig. 38

Earth Wire

IV. EXPLODED VIEW

Model OH-9000

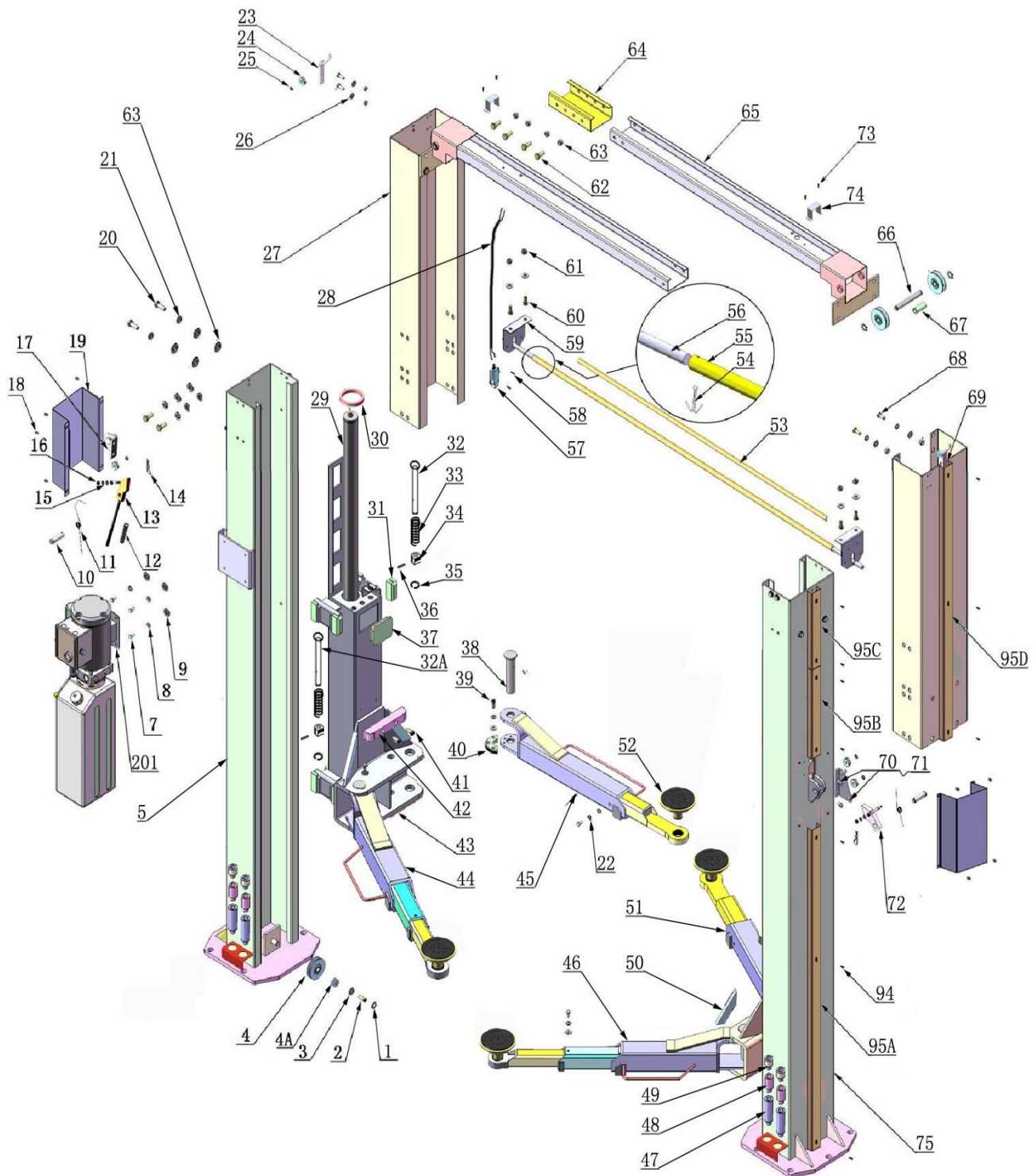
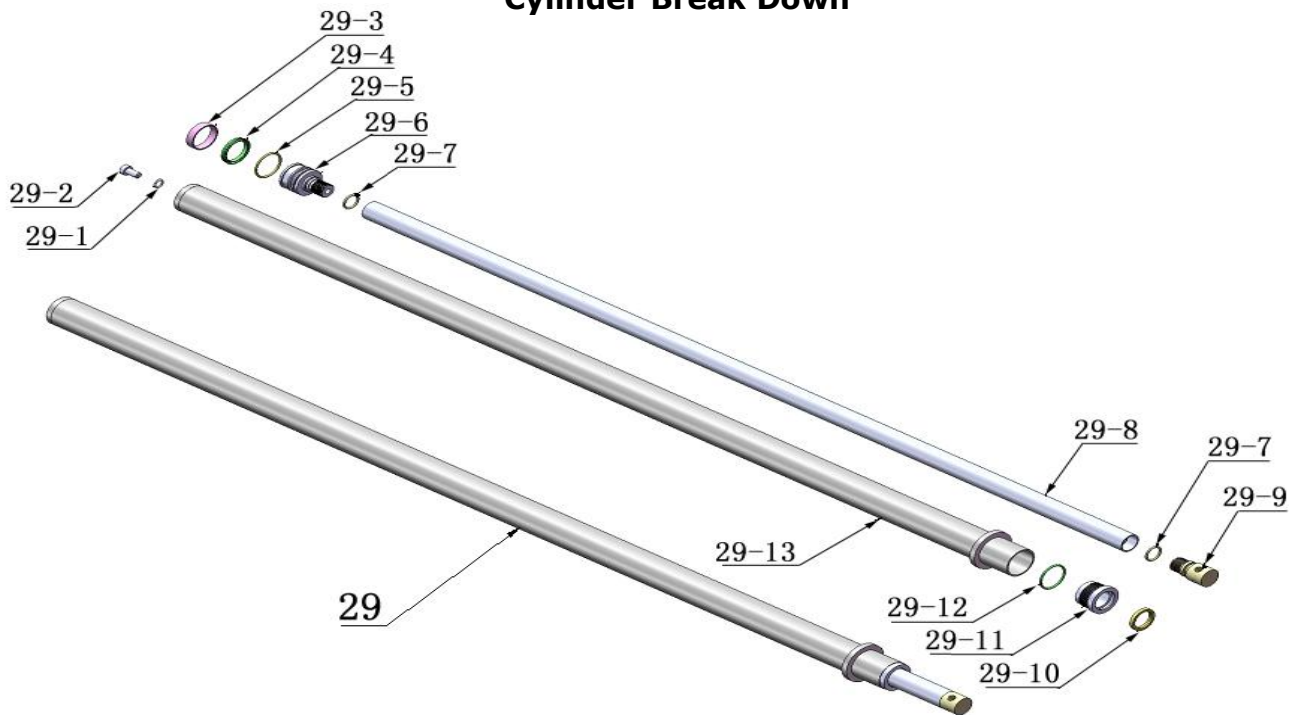
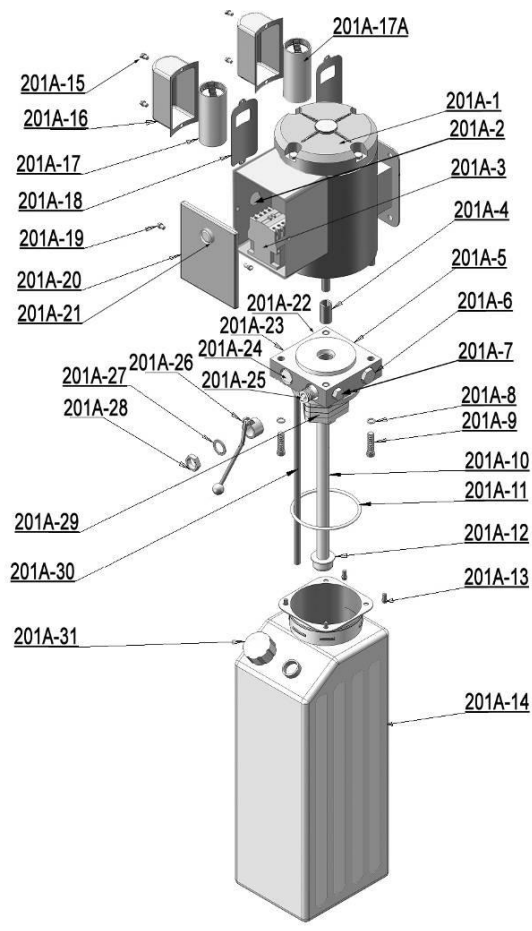


Fig. 39

Cylinder Break Down



ATLAS hydraulic Power Unit



SPX hydraulic power unit

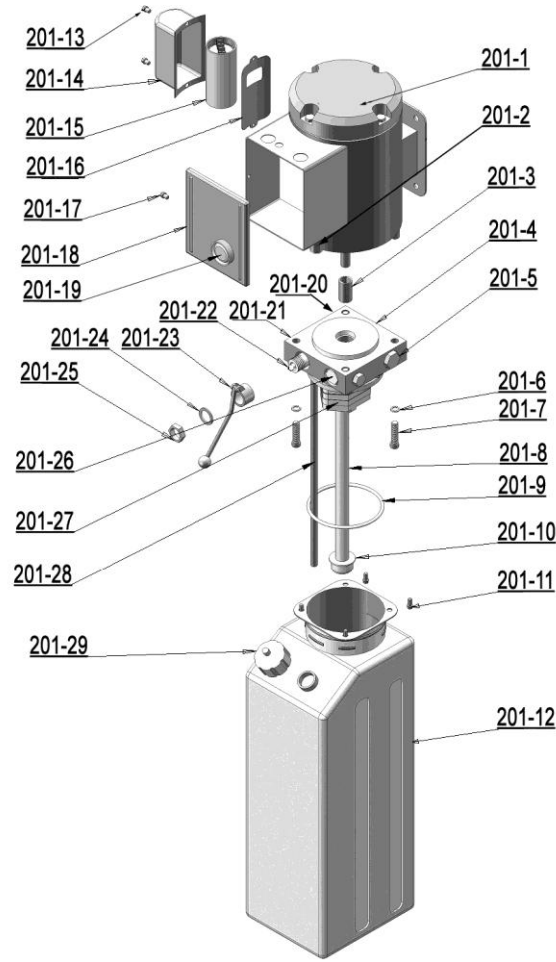


Illustration of ATLAS Hydraulic Valve for hydraulic power unit

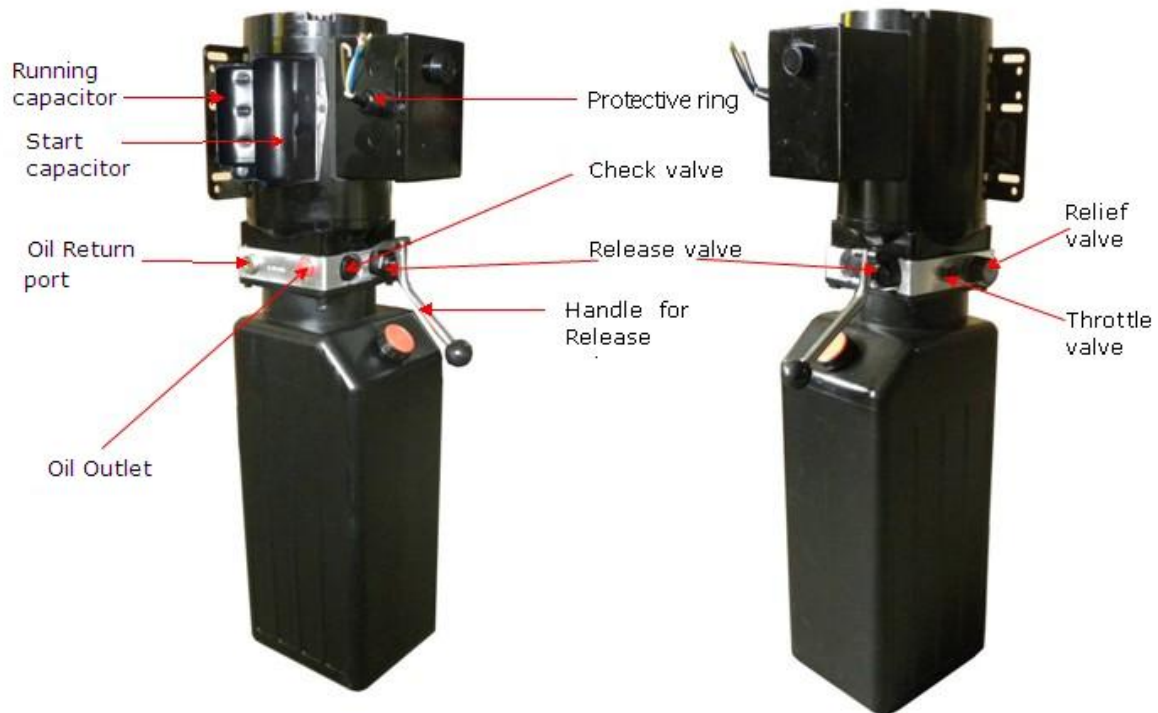


Illustration of ATLAS Hydraulic Valve for hydraulic power unit



V. TEST RUN

1. Adjust Cables (See Fig. 40)

Use vise grips to hold the cable fitting, meanwhile
Use a ratchet to tighten the cable nut.
Make sure the two cables have the same tension
so the safety locks click at the same time.
Place the plastic cover on the carriage.

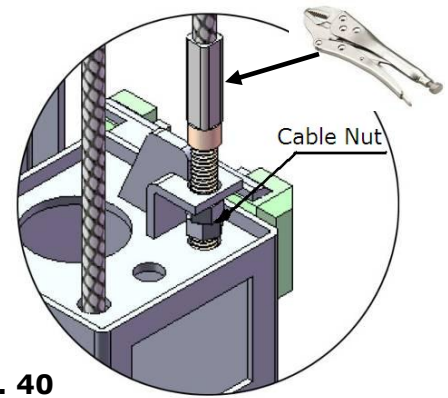


Fig. 40

If the carriage does not synchronize when lifting, re-adjust

(See Fig. 41 & Fig. 42)

- Press **UP** button to lift the carriages up to the first safety lock. If one carriage is higher than the safety lock, lower until both carriages are on the safety locks.
- Loosen the cable by adjusting the lock nuts, release the safety lock on the side that the carriage is in higher position. The other side safety lock is engaged. Then lower the lift, the side with carriage in lower position would be locked, and the other side is unlocked. Continue to lower the lift until both carriages are at the same level.
- Tighten the cable nut on the cables, and tighten the safety cable with the lock nuts, try to lift again, adjust the cables if needed.

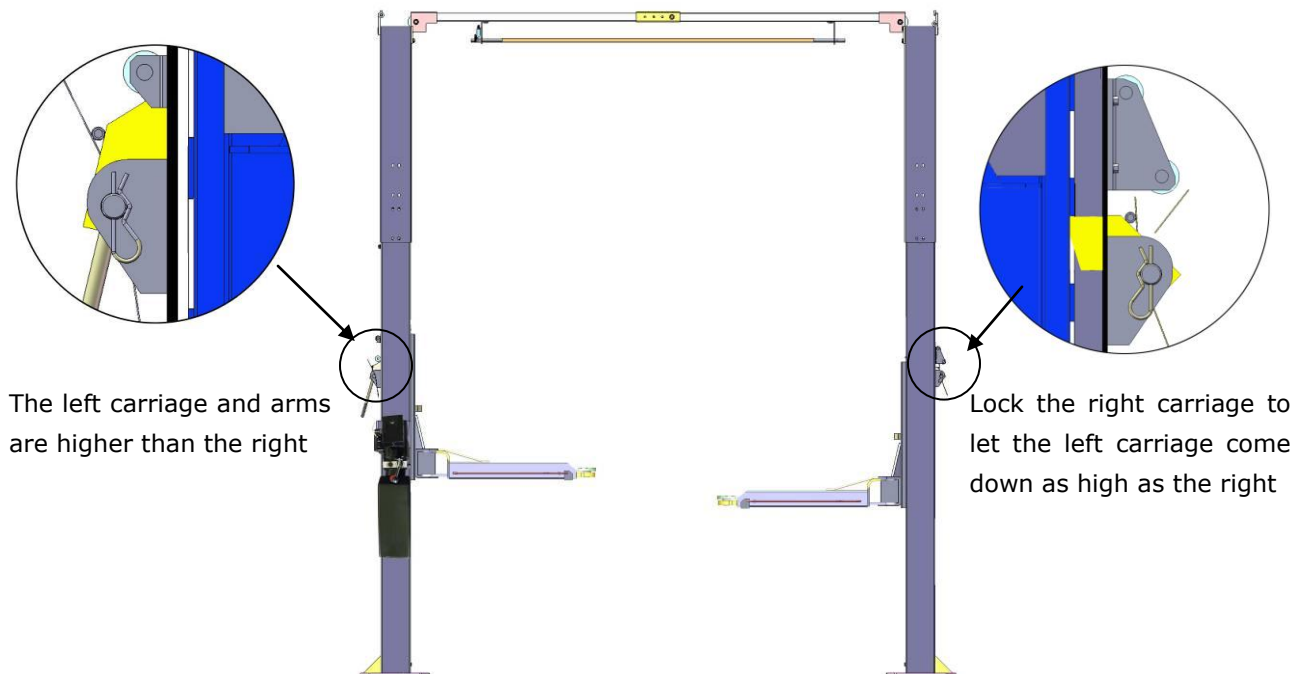
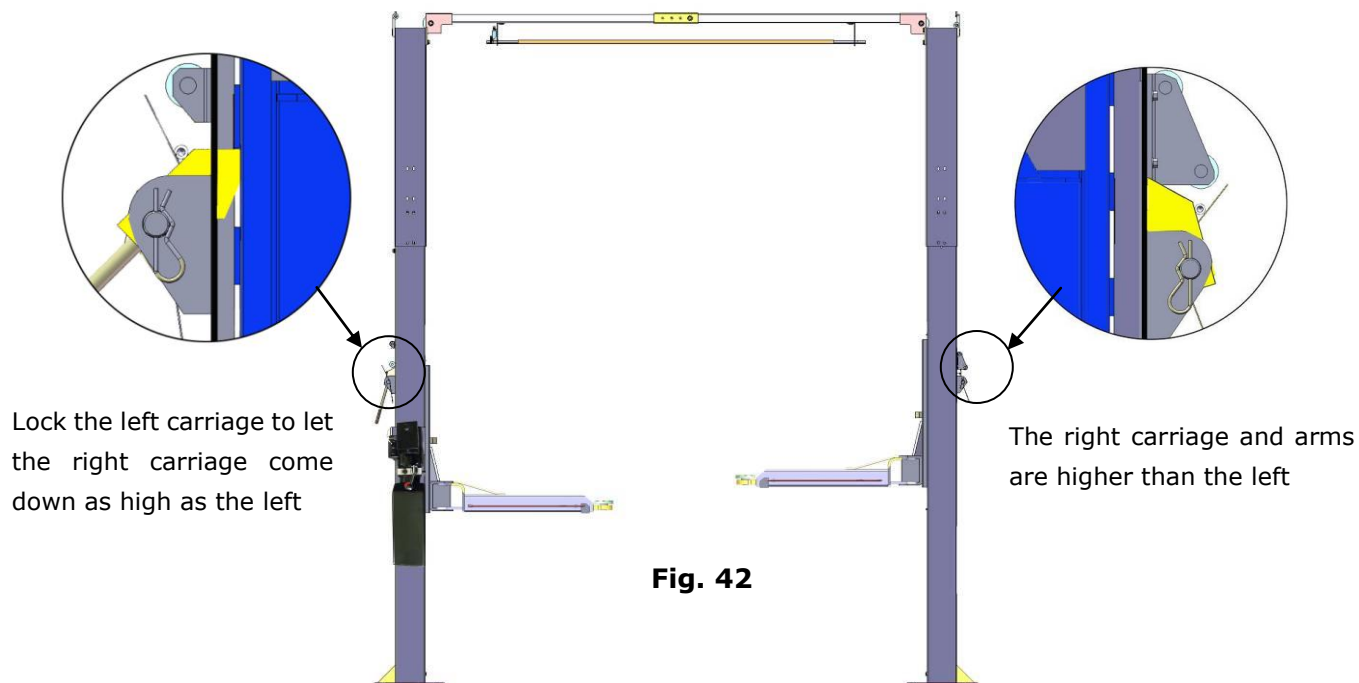


Fig. 41

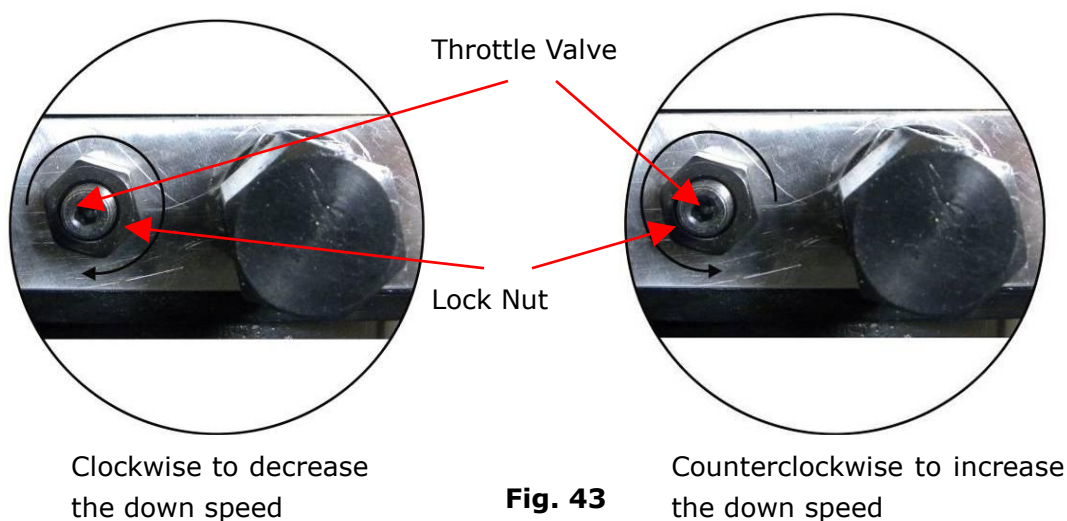


2. Adjust Safety Cable

Lifting the carriage and lock at the same height, strain the Safety Cable and then release a little, and then tighten the cable nuts. Make sure the Safety Device always works properly.

3. Adjust the lower speed

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



4. Test with load

After finishing the above adjustment, test the lift with load. Run the lift in low position several times first, make sure the carriages can raise and lower at the same speed. Does Safety Device lock at the same time? Then test run the lift to the top.

NOTE: The lift may vibrate on the way down with a load. There may be air trapped in the cylinders. This will cease after repeated up and down cycles.

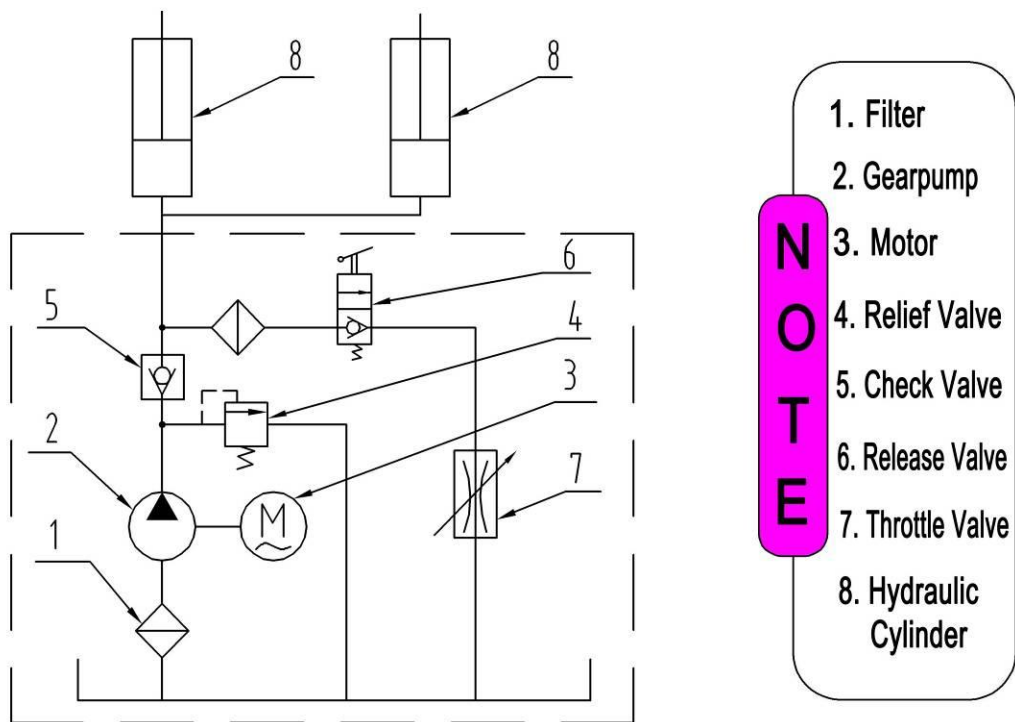


Fig. 44 Hydraulic System

VI. OPERATION INSTRUCTIONS

Please read the safety tips carefully before operating the lift

To lift vehicle

1. Keep work area near the lift clean
2. Position lift arms to the lowest position
3. To shortest lift arms
4. Open lift arms
5. Position vehicle between columns
6. Move arms to the vehicle's lifting point

Note: The four lift arms must make contact at the same time on the vehicle's lifting points. Refer manufacturers recommended lifting points

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

To lower vehicle

1. Be sure there are no obstructions under or around lift;
2. Press the button of **UP** to raise the vehicle slightly, and then release the safety device, lower vehicle by pushing the lowering handle.
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 87-100 torque 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 device and make sure proper condition
6. Lubricate (lightly) all Rollers and Pins with 90wt. Gear oil or equivalent

Note: All anchor bolts should take full torque. If any of the bolts does 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, equalizer tension of the cables to insure level lifting.
3. Check columns for plumb.
4. Check Rubber Pads and replace as necessary.
5. Check Safety device and make sure proper condition.

VIII TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
Motor does not run	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	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 is not raised	1. Motor runs in reverse rotation 2. Gear Pump out of operation 3. Release Valve in damage 4. Relief Valve or Check Valve in damage 5. Low oil level	1.Reverse two power wire 2.Repair or replace 3. Repair or replace 4.Repair or replace 5.Fill tank
Lift does not stay up	1. Release Valve out of work 2. Relief Valve or Check Valve leakage 3. Cylinder or Fittings leaks	Repair or replace
Lift raises slowly	1. Oil line is jammed 2. Motor running on low voltage 3. Oil mixed with air 4. Gear Pump leaks 5. Overload lifting	1. Clean the oil line 2. Check Electrical System 3. Fill tank 4. Replace Pump 5. Check load
Does not lower	1. Safety device are activated 2. Release Valve damaged 3. Safety cable broken 4. Oil system is blocked	1. Release the safeties 2. Repair or replace 3. Replace 4. Clean the oil system

For more motor trouble shooting assistance, follow this link.

<http://www.gregsmithequipment.com/Lift-Motor-Troubleshooting>

IX. PARTS LIST FOR OH9000 and OH9000EH

Item	Part#	Description	Qty.		Note
			OH9000	OH9000EH	
1	206019	Snap Ring	6	6	
2	206058	Bolt	2	2	
3	206059	Washer	2	2	
4	206020	Pulley	6	6	
4A	209057A	Bronze Bush For Pulley	6	6	
5	206001	Power Side Inner Column	1	1	
201	209002	Manual Power Unit	1	1	
7	209003	Hex Bolt	8	8	
8	209004	Rubber Ring	4	4	
9	209005	Nylok Nut	8	8	
10	206002	Safety Pin	2	2	
11	209007	Safety Spring	2	2	
12	206003	Handle Protective Plastic cushion	1	1	
13	206004	Power Side Safety Lock	1	1	
14	209012	Hair Pin	2	2	
15	206006	Washer	24	24	
16	206023A	Hex Nut	4	4	
17	206004A	Safety Pulley Bracket	1	1	
18	209009	Cup Head Bolt	8	8	
19	206081	Safety Cover	2	2	
20	209126	Hex Bolt	20	20	
21	209022	Washer	58	58	
22	209039	Lock Washer	18	18	
23	206010	Safety Pulley Bracket	1	1	
24	206009	Plastic Pulley	5	5	
25	209010	Snap Ring	5	5	
26	209033	Washer	4	4	
27	206008	Extension Column	2	0	
	206008A		0	2	
28	206015A	Wire Cable	1	0	
	206015B		0	1	
29	217056	Hydraulic Cylinder	2	2	
30	209111	Protective Ring For Cylinder	2	2	
31	206044	Slider Block	16	16	
32	206046A	Arm Lock Bar	2	2	

32A	206046B	Arm Lock Bar	2	2	
33	206050A	Spring	4	4	
34	217044	Arm Lock	4	4	
35	206032	Snap Ring	4	4	
36	206036	Hair Pin	4	4	
37	209016	Carriage Plastic Cover	2	2	
38	217047	Arm Pin	4	4	
39	206048	Socket Bolt	12	12	
40	206049	Moon Gear	4	4	
41	206046	Self-tapping Screw	4	4	
42	206045	Protective Rubber	2	2	
43	206052A	Carriage	2	2	
44	206075	Lifting Arm – Front Right (drop-in)	1	1	
45	206076	Lifting Arm – Rear Right (drop-in)	1	1	
46	206077	Lifting Arm – Front Left (drop-in)	1	1	
47	209053	Stackable Adapter (6")	4	4	
48	209052	Stackable Adapter (3")	4	4	
49	209051	Stackable Adapter (1.5")	4	4	
50	206072	Protective Rubber Set	4	4	
51	206078	Lifting Arm – Rear Left (drop-in)	1	1	
52	680030	Rubber Pad Frame Support	4	4	
53	206025A	Foam Cushion	1	1	
54	201005	Split Pin	2	2	
55	206025	Control Bar	1	1	
56	206025C	Connecting Pin for Control Bar	2	2	
57	206013	Limit Switch	1	1	
58	206011	Cup Head Bolt	2	2	
59	206042	Control Bar Support Bracket	2	2	
60	206041	Hex Bolt	4	4	
61	206023	Nylok Nut	12	12	
62	206017	Hex Bolt	8	8	
63	209056	Nylok Nut	28	28	
64	206016	Connecting Bracket	1	1	
65	206018	Top Beam W/Bracket	2	2	
66	206021	Pin For Pulley	2	2	
67	206022	Top Pulley Tube	2	2	
68	206024	Hex Bolt	8	8	
69	206010A	Safety Pulley Bracket	1	1	
70	206008A	Hex Bolt	4	4	

Item	Part#	Description	Qty.		Note
			OH9000	OH9000EH	
71	206008B	Safety Pulley Bracket	1	1	
72	206026	Offside Safety Lock	1	1	
73	206028	Cup Head Bolt	4	4	
74	206029	Retainer	2	2	
75	206030	Offside Inner column	1	1	
76	209059	Anchor Bolts	10	10	
94	206079	Cup Head Bolt	20	20	
95A	206080-1	Protective Cover A	2	2	
95B	206080-2	Protective Cover B	2	2	
95C	206080-3	Protective Cover C	2	2	
95D	206080-4	Protective Cover D	2	2	
Parts For Oil Hose, Fitting & Cable					
85	206064A	Cable	2	0	
	206064B		0	2	
86	209066	Cable Nut	8	8	
87	206073	T- Fitting For Power Unit	1	1	
88	206074A	Oil Hose	1	1	
89	209064	Straight Fitting	2	2	
90	206062	Straight Fitting	2	2	
91	233009	Pipe Fitting	2	2	
92	206061C	Oil Hose	1	0	
	206061D		0	1	
93	206065	Safety Cable	1	0	
	206065A		0	1	
96	217048	Retainer	2	2	
Parts For Hydraulic Cylinders					
29-1	209069	O-Ring	2	2	
29-2	209070	Bleeding Plug	2	2	
29-3	209071	Support Ring	2	2	
29-4	209072	Y-Ring	2	2	
29-5	209073	O-Ring	2	2	
29-6	209074	Piston	2	2	
29-7	209075	O-Ring	2	2	
29-8	209076A	Piston Rod	2	2	
29-9	209077	Piston Rod Fitting	2	2	
29-10	209078	Dust Ring	2	2	
29-11	209079	Head Cap	2	2	
29-12	209080	O-Ring	2	2	
29-13	209081A	Bore Weldment	2	2	

Parts For SPX Manual Power Unit, 220V/60Hz/1 phase					
201-1	209082	Motor	1	1	
201-2	209109	Protective Ring	1	1	
201-3	209083	Motor Connecting Shaft	1	1	
201-4	209084	Valve Body	1	1	
201-5	209085	Relief Valve	1	1	
201-6	209086	Lock Washer	4	4	
201-7	209087	Socket Bolt	4	4	
201-8	209088	Inlet Pipe	1	1	
201-9	209089	O-Ring	1	1	
201-10	209090	Filter	1	1	
201-11	209091	Hex bolt	4	4	
201-12	209092	Reservoir	1	1	
201-13	209093	Bolt	2	2	
201-14	209094	Cover of Capacitor	1	1	
201-15	209095	Capacitor	1	1	
201-16	209096	Rubber Gasket	1	1	
201-17	209097	Hex bolt	1	1	
201-18	209098	Cover of Motor Terminal Box	1	1	
201-19	209099	Push Button	1	1	
201-20	209110	Oil Return Port	1	1	
201-21	209100	Oil Outlet	1	1	
201-22	209101	Release Valve	1	1	
201-23	209102	Handle For Release Valve	1	1	
201-24	209103	Washer	1	1	
201-25	209104	Hex Nut	1	1	
201-26	209105	Check Valve	1	1	
201-27	209106	Gear Pump	1	1	
201-28	209107	Oil Return Pipe	1	1	
201-29	209108	Filler Cap	1	1	
Parts For PEAK Manual Power Unit, 220V/60Hz/1phase					
201A-1	209082A	Motor	1	1	
201A-2	209109	Protective Ring	1	1	
201A-3	209112	AC contactor	1	1	
201A-4	209083A	Motor Connecting Shaft	1	1	
201A-5	209084A	Valve Body	1	1	
201A-6	209085A	Relief Valve	1	1	
201A-7	209113	Throttle valve	1	1	
201A-8	209086A	Lock Washer	4	4	

201A-9	209087A	Socket Bolt	4	4	
201A-10	209088A	Inlet Pipe	1	1	
201A-11	209089A	O-Ring	1	1	
201A-12	209090A	Filter	1	1	
201A-13	209091A	Socket bolt	4	4	
201A-14	209092A	Reservoir	1	1	
201A-15	209093A	Cup Head Bolt With Washer	4	4	
201A-16	209094A	Cover of Capacitor	2	2	
201A-17	209095A	Start Capacitor	1	1	
201A-17	209095B	Running Capacitor	1	1	
201A-18	209096A	Rubber Gasket	2	2	
201A-19	209097A	Cup Head Bolt With Washer	2	2	
201A-20	209098A	Cover of Motor Terminal Box	1	1	
201A-21	209099A	Push Button	1	1	
201A-22	209110A	Oil Return Port	1	1	
201A-23	209100A	Oil Outlet	1	1	
201A-24	209105A	Check Valve	1	1	
201A-25	209101A	Release Valve	1	1	
201A-26	209102A	Handle For Release Valve	1	1	
201A-27	209103A	Washer	1	1	
201A-28	209104A	Hex Nut	1	1	
201A-29	209106A	Gear Pump	1	1	
201A-30	209107A	Oil Return Pipe	1	1	
201A-31	209108A	Filler Cap	1	1	