

INSTALLATION & OPERATION MANUAL



Atlas BP10000 10,000 lb. Capacity Two-Post Baseplate Lift



Atlas Automotive Equipment
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Read this entire manual before operation begins.

Record below the following information which is located on the serial number data plate.

Serial No. _____

Model No. _____

Date of Installation _____

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Specifications

Floorplate Chain-Drive Two Post Lift

Model BP10000X

- Compact design
- Dual hydraulic cylinders, designed and made on ANSI standards, utilizing NOK oil seal in cylinder
- Self- lubricating UHMW Polyethylene sliders and bronze bush
- Single-point safety release, and dual safety design
- Stackable rubber pad with 1.5", 2.5" and 5" extension adaptors
- Super-symmetric arms design with 3-stages front arms and 2-stages rear arms

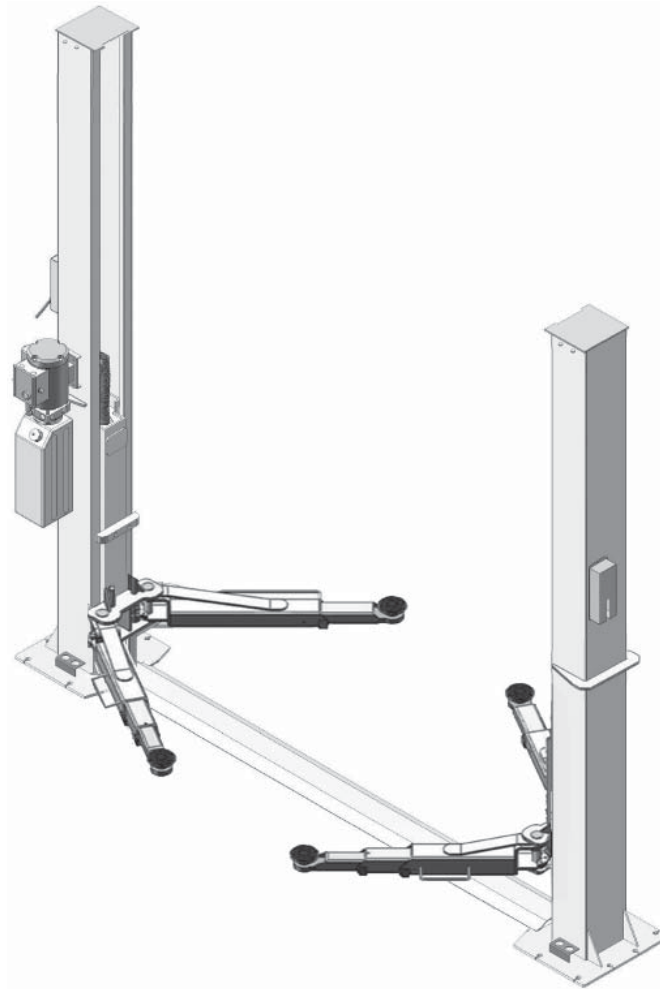


Fig. 1

BP10000 Specifications

Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width Between Columns	Minimum Pad Height	Gross Weight	Motor
Floor plate Chain-drive	4.5T 10,000lbs	62S	1965-2194mm 77 3/8"-86 3/8"	2841mm 111 7/8"	3534mm 139 1/8"	2850mm 112 1/4"	115mm 4 1/2"	745Kg 1640lbs	2.0/3.0 HP

Arm Swing View

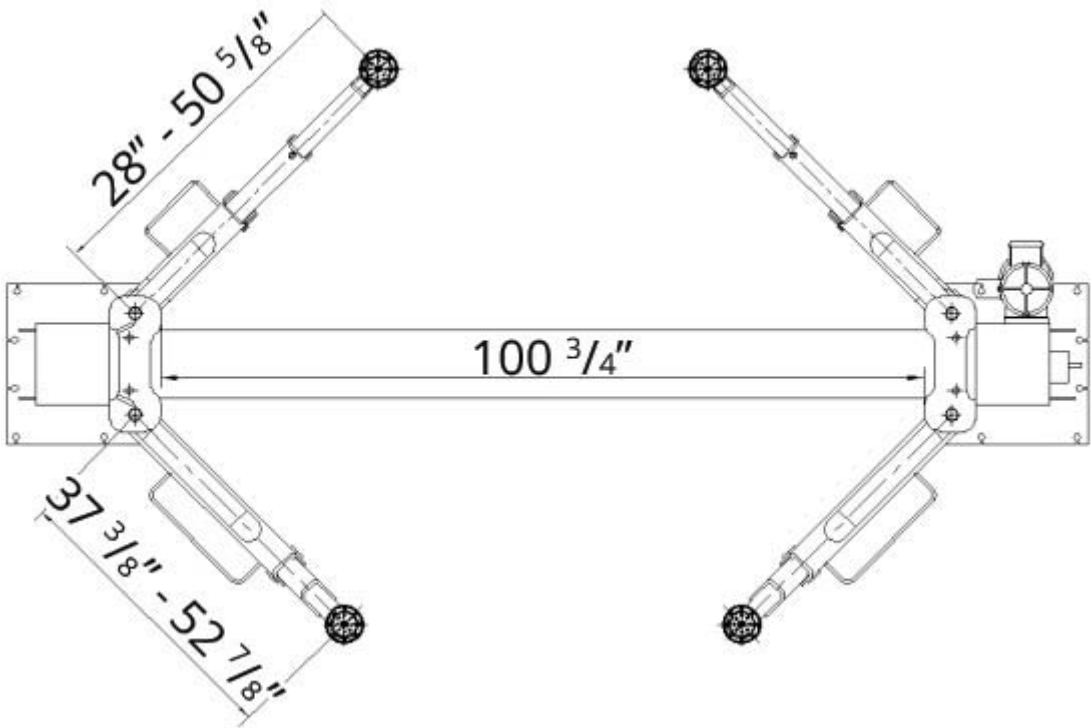


Fig. 2

Installation Requirement

Tools Required

Rotary Hammer Drill (3/4")



Carpenter's Chalk



Hammer



Screw Drivers



Level Bar



Tape Measure (25ft)



Crescent Wrench (12")



Pliers



Ratchet Spanner With Socket (28#)



Allen Head Wrench (6#)



Wrench set (mm)
(10#, 13#, 14#, 15#, 17#, 19#, 24#, 27#)



Vise Grips



*3.5 to 5 Gallons of **AW32 - AW46** Hydraulic Oil is recommended for operation*

Fig. 3

Specifications Of Concrete

Specifications of concrete must be adhered to the specification as following. Failure to do so may result in lift and/or vehicle falling.

1. Concrete must be thickness 100mm minimum and without reinforcing steel bars, and must be dried completely before the installation.
2. Concrete must be in good condition and must be of test strength 3,000psi (210kg/cm²) minimum.
3. Floors must be level and no cracks.

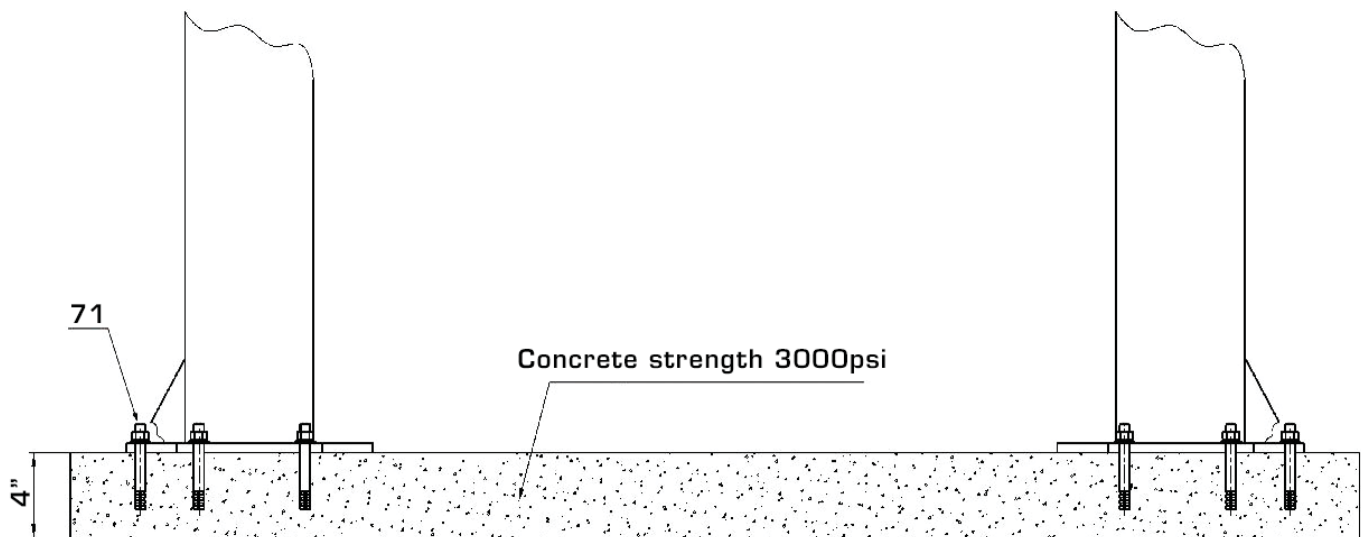


Fig. 4

Power Supply

The electrical source must be 2.2KW minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

Installation Steps

A. Location Of Installation

Check and insure 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 Baseplate

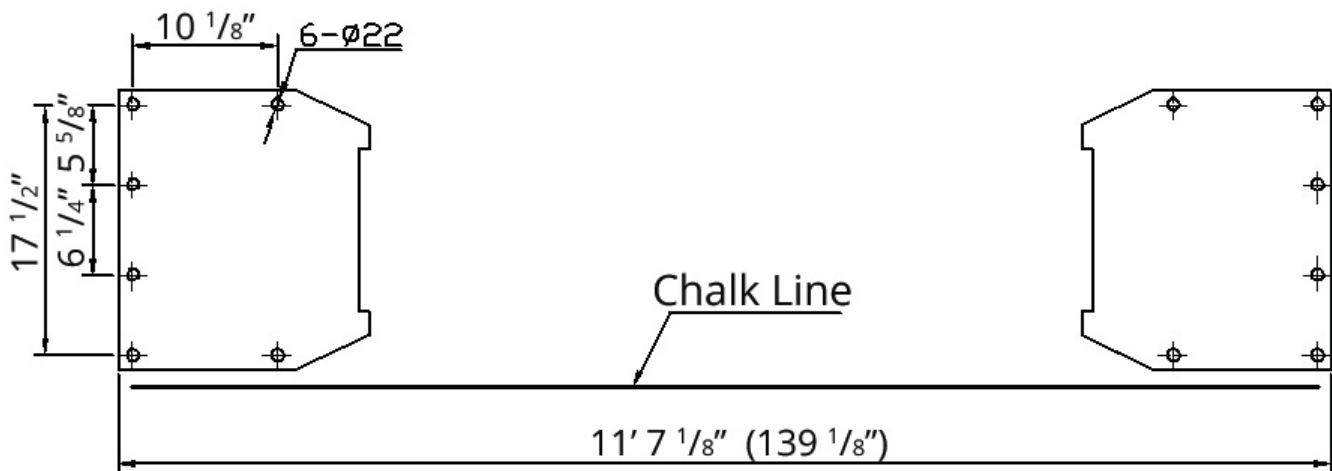


Fig. 5

Check The Parts Before Assembly

1. Packaged lift, hydraulic power unit and parts box (See Fig. 6).



Fig. 6

2. Move aside the lift with fork lift or hoist, open the outer packing, take out the parts from the column and check the parts with shipment list (See Fig. 7).

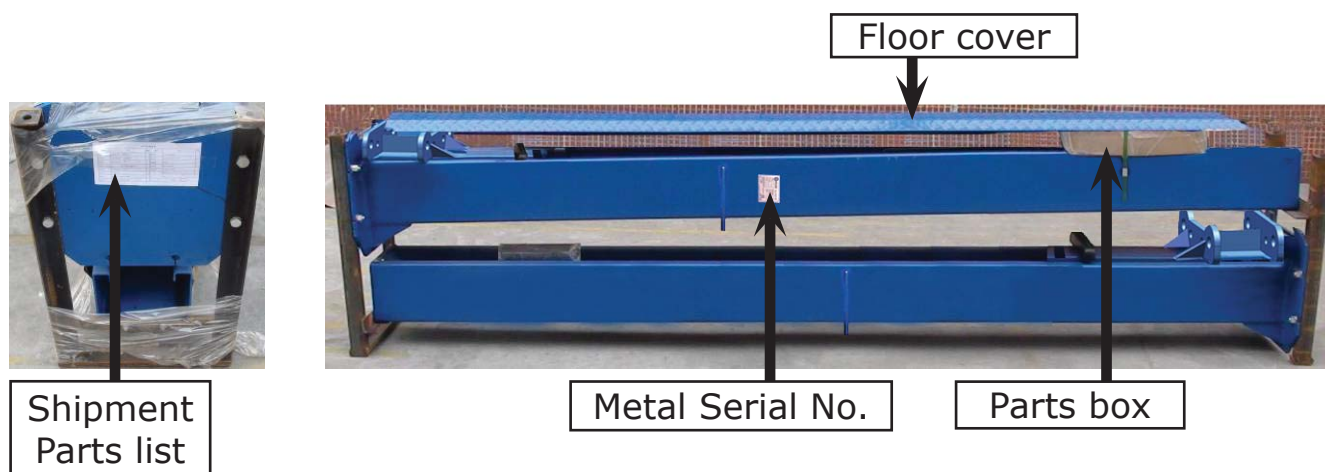


Fig. 7

3. Loose the bolts of the upper package stand, remove the upper column then remove the package stand.
4. Move the parts aside and check the parts according to the shipment parts list.



Fig. 8

83



Parts box (83)

Fig. 9

5. Check the parts of the parts bag according to parts bag list (See Fig. 10).

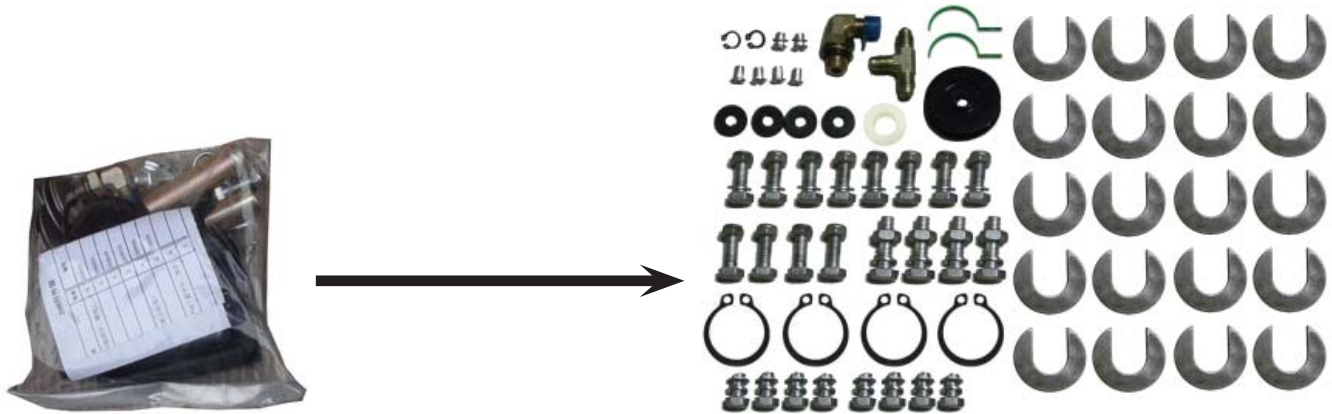


Fig. 10

D. Position Power Side Column

Lay down two columns on the installation site parallel, position the power side column according to the actual installation site and install top plate, top connecting plate assy.. Usually, it is suggested to install power side column on the front-right side from which vehicles are driven to the lift (See Fig. 11).

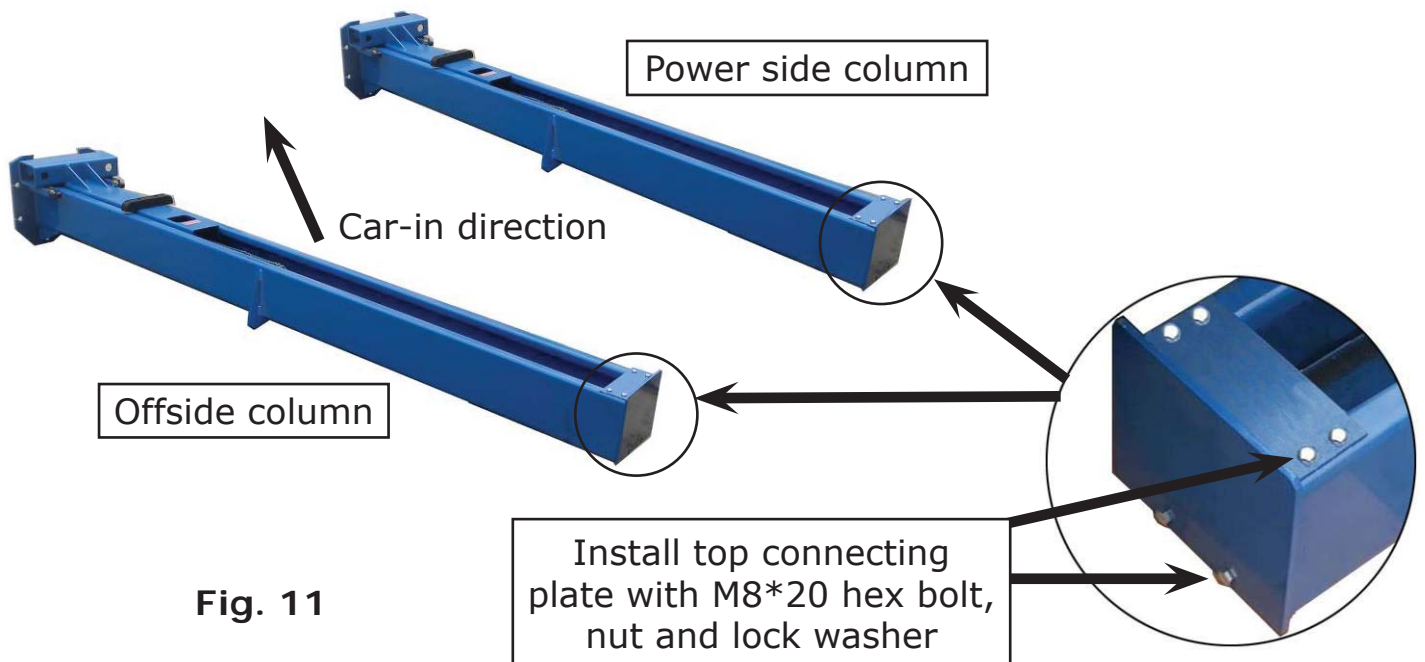


Fig. 11

E. Connecting The Cables

1. Put down columns and then push the carriages higher than chain pulley.

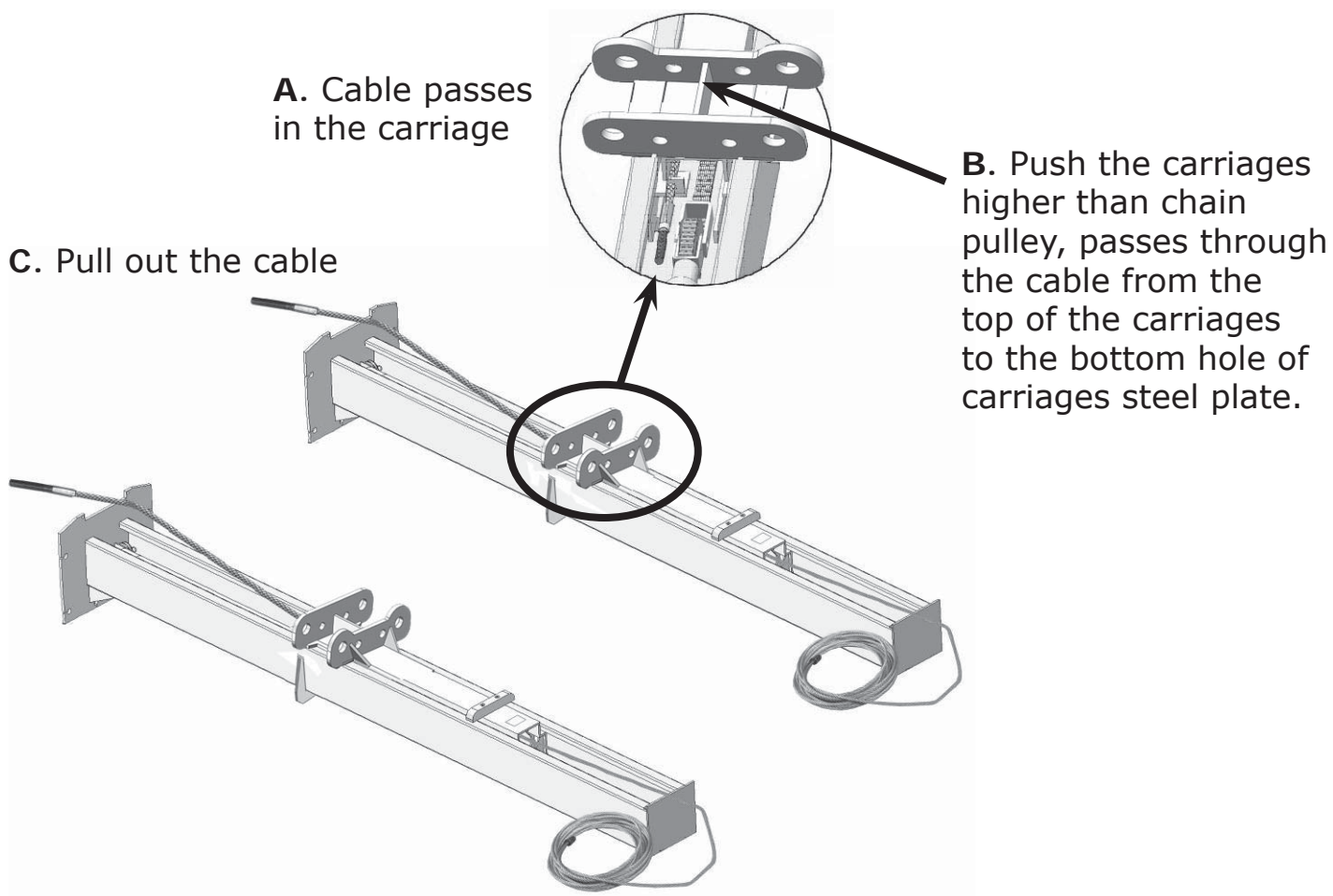


Fig. 12

2. Push the carriages to the bottom of the columns.

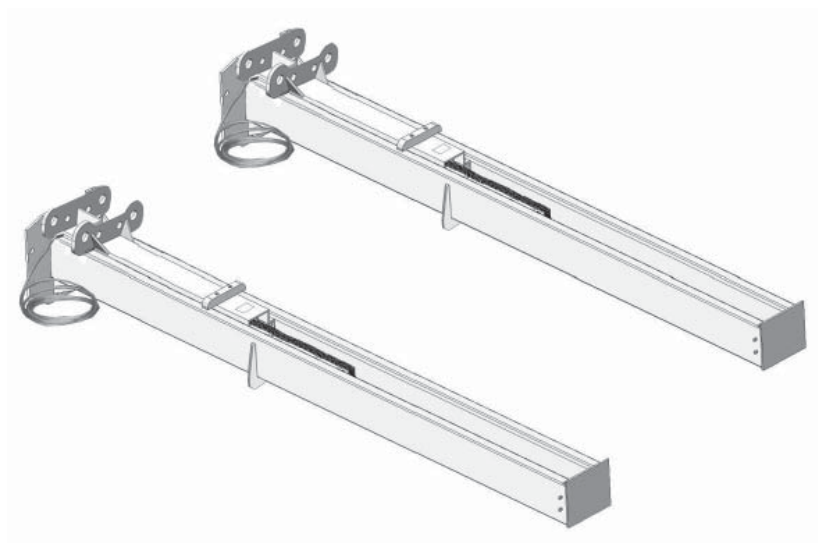


Fig. 13

F. Position Columns

Check the vertical of the columns with level bar, and adjusting with the shims if the columns are not vertical.

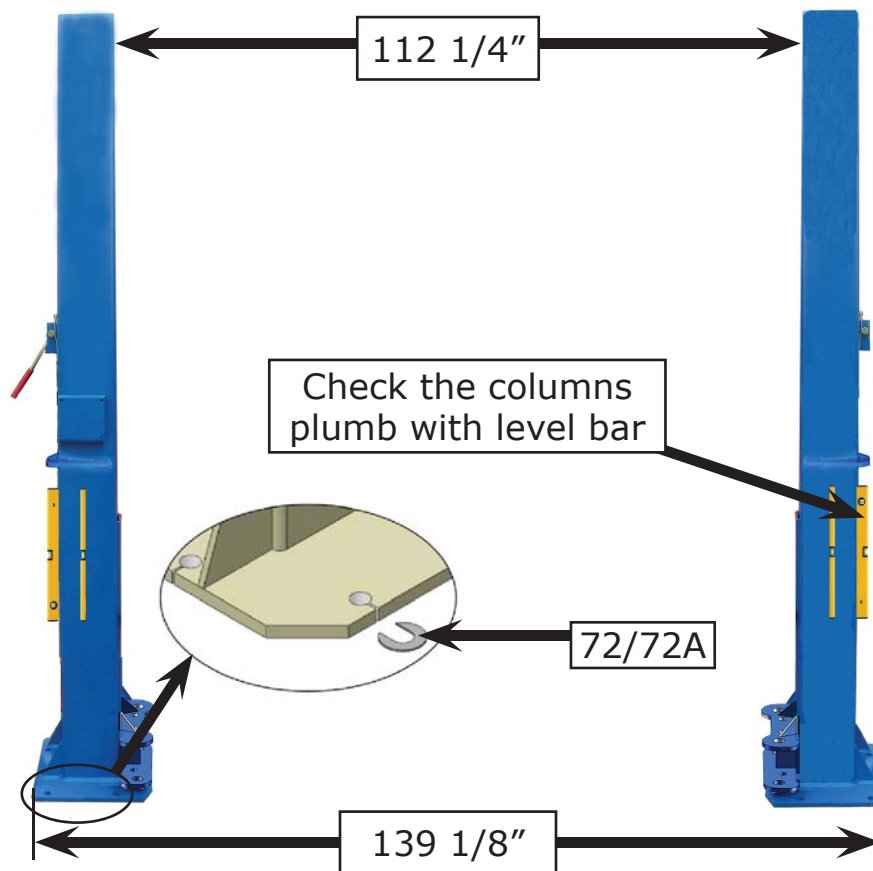
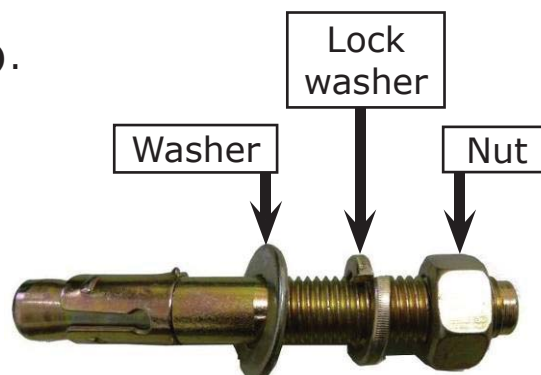


Fig. 14

G. Fix Anchor Bolts

1. Prepare anchor bolts (See Fig. 15).

Fig. 15



2. Using the prescribed rotary hammer drill, and drill all the anchor holes and install the anchor bolts. Then tighten the anchor bolts (See Fig. 16).

Note: Torque of Anchors is 150N.m .Minimum embedment of Anchors is 90mm.

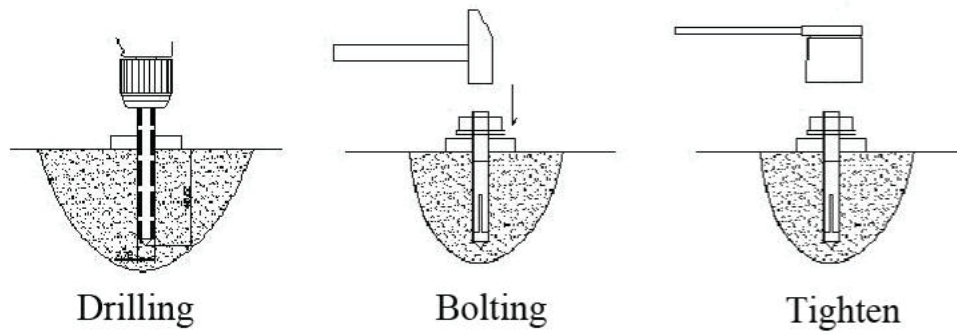


Fig. 16

H. Lift The Carriages Up By Hand And Make Them Be Locked At The Same Level

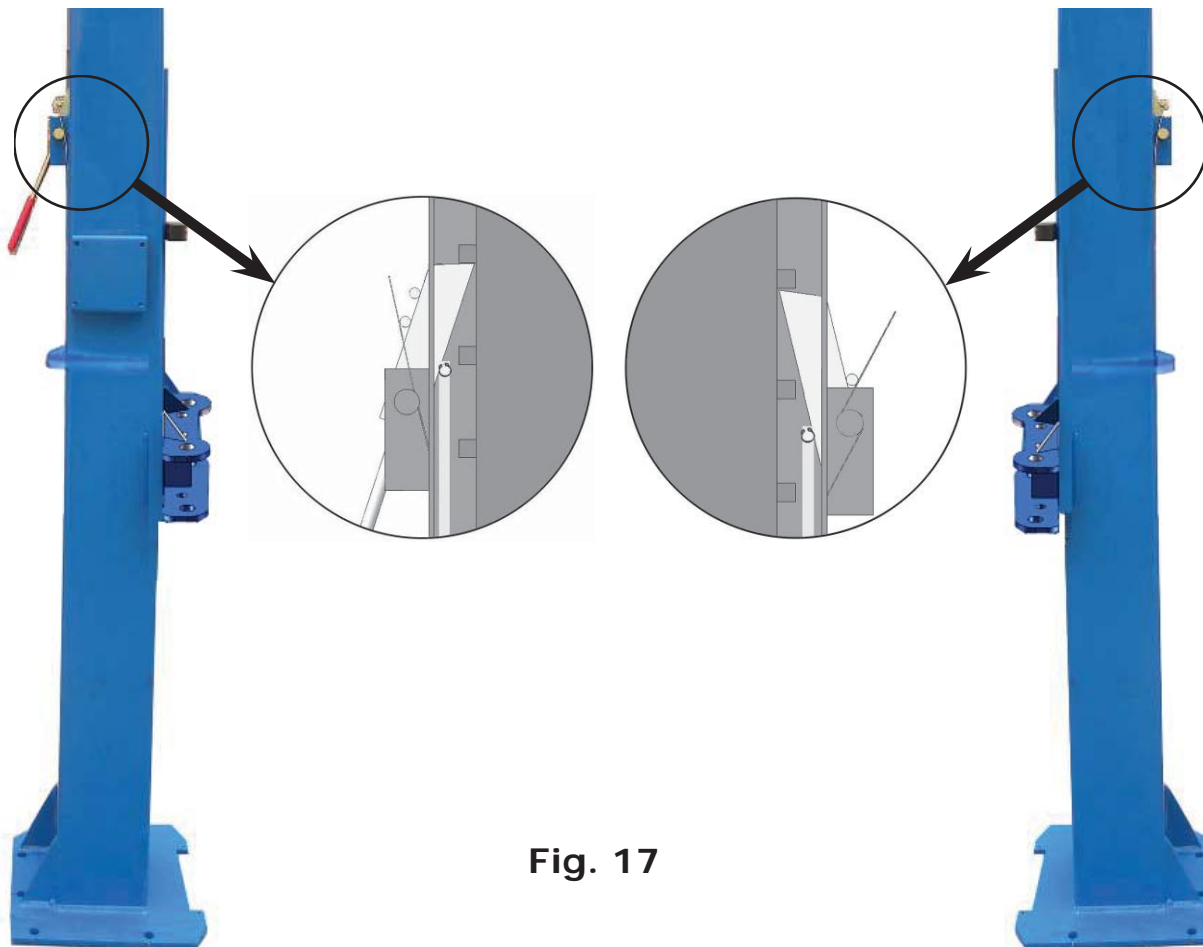


Fig. 17

I. Install Cables

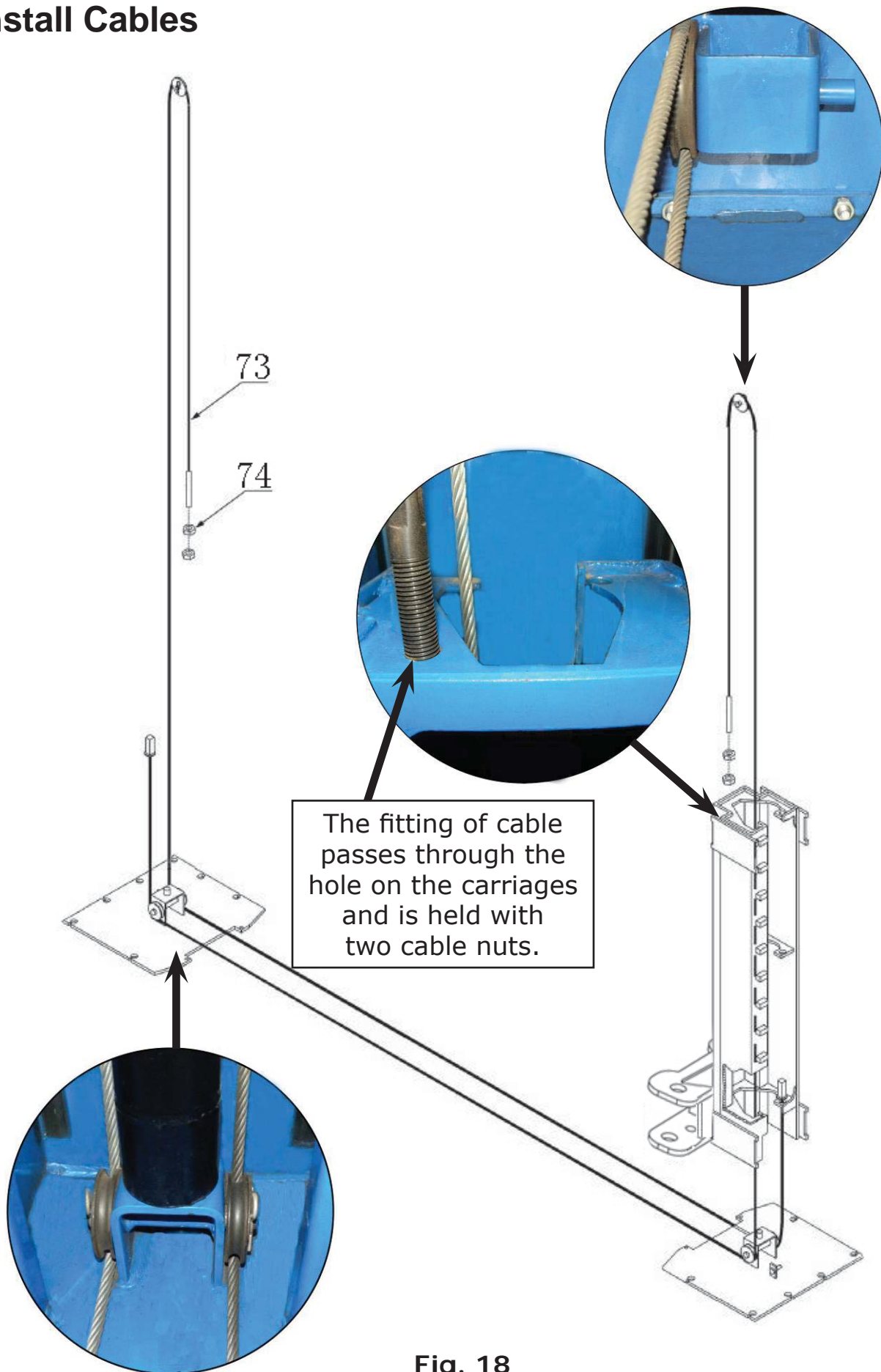


Fig. 18

J. Connect Oil Hose Assembly

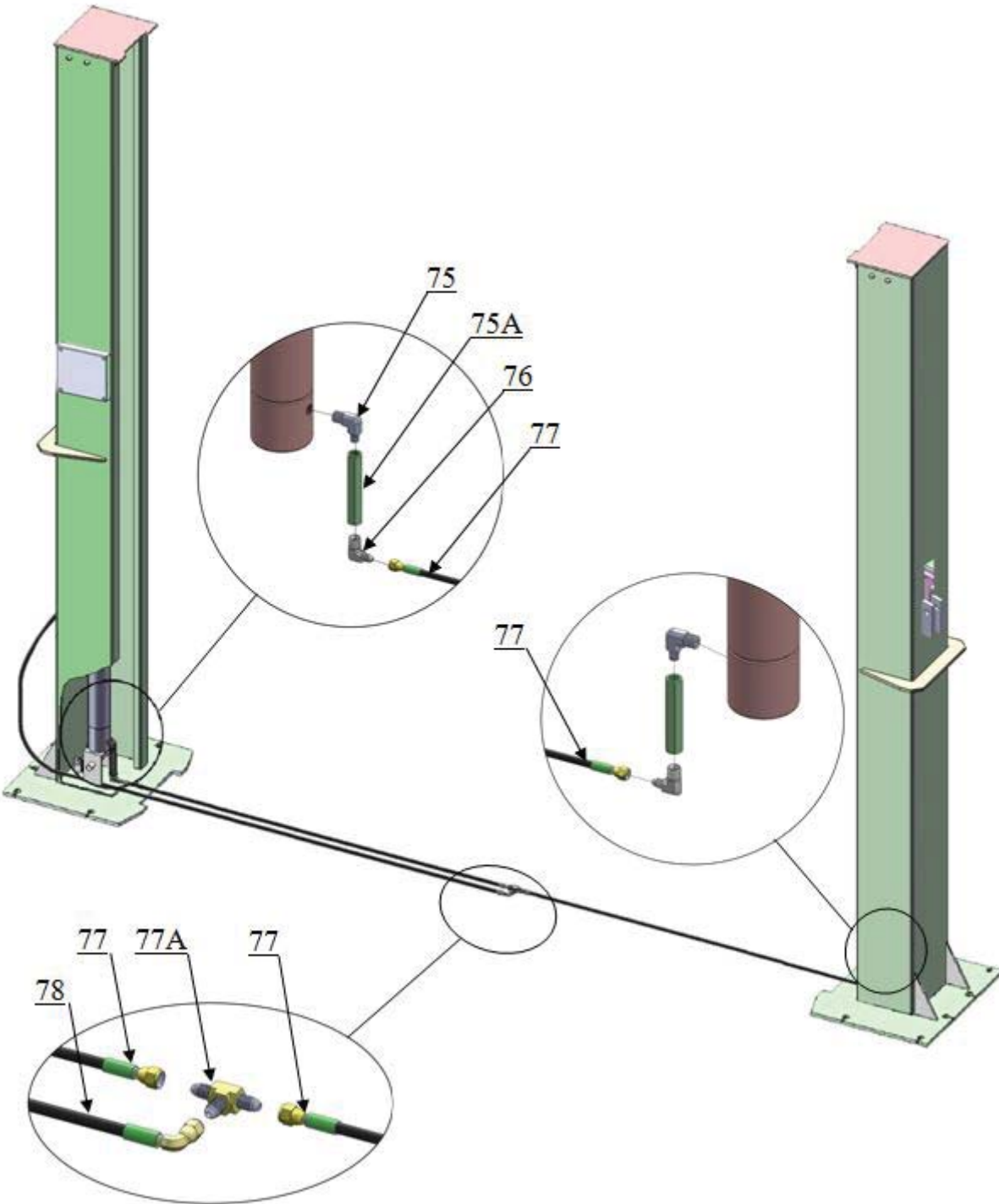
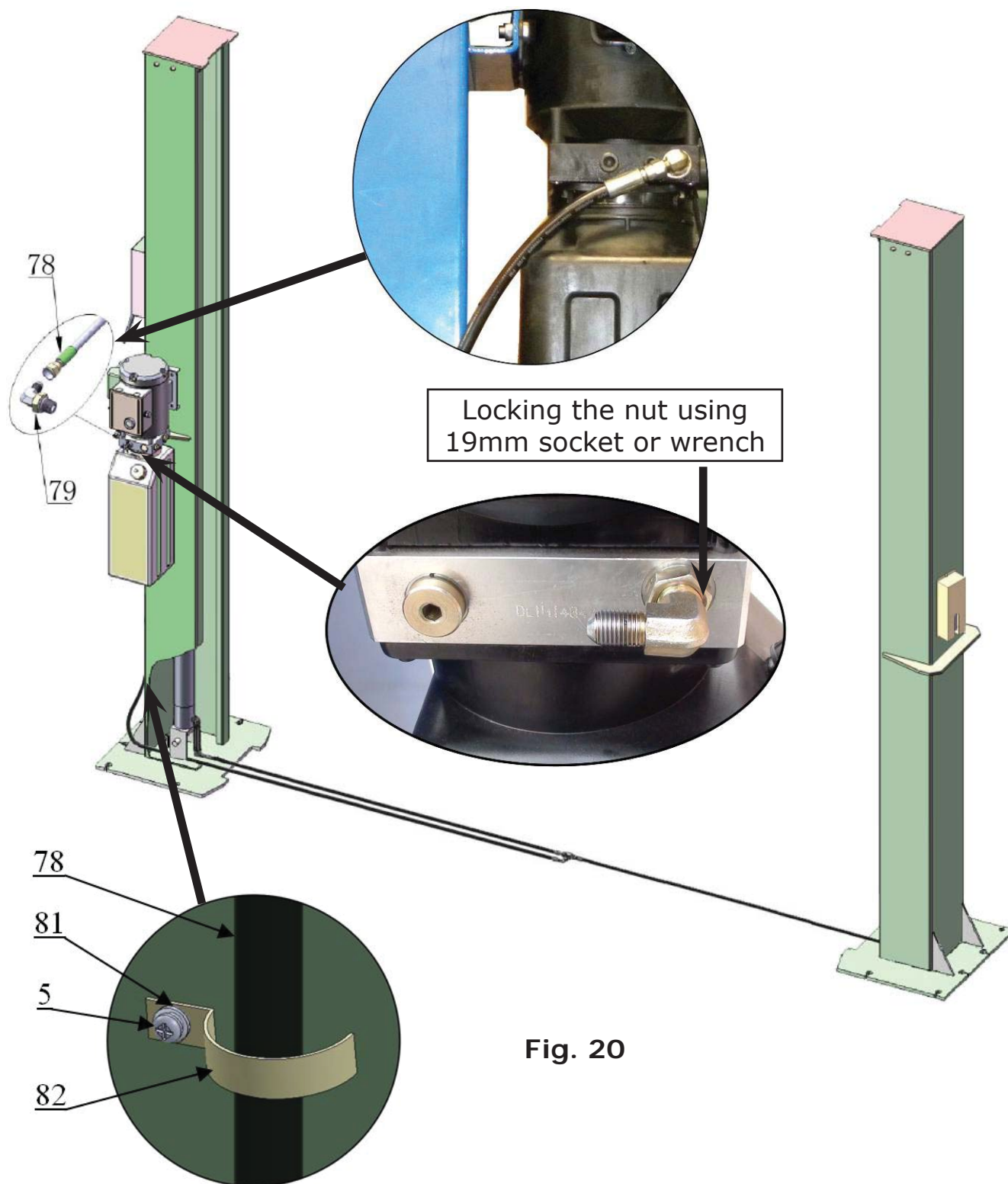


Fig. 19

K. Install Hydraulic Power Unit And Oil Hose Assembly

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

Note: In consideration of Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#



L. Install Safety Device And Safety Cable

1. Assemble safety cable from offside safety assembly.
2. Pay attention to the connecting direction of safety cable.

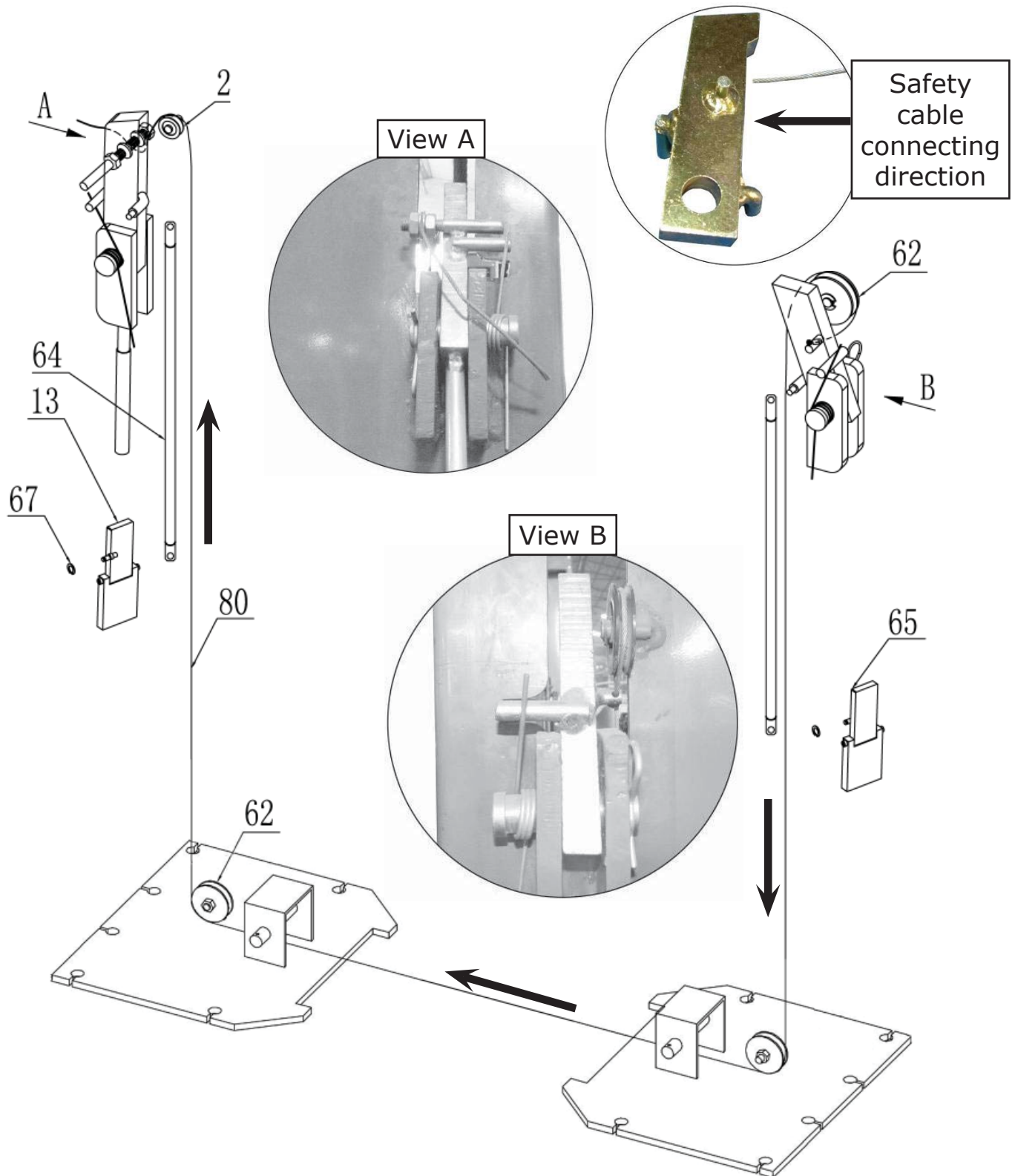


Fig. 21

M. Assemble Floor Cover And Protective Rubber Sets

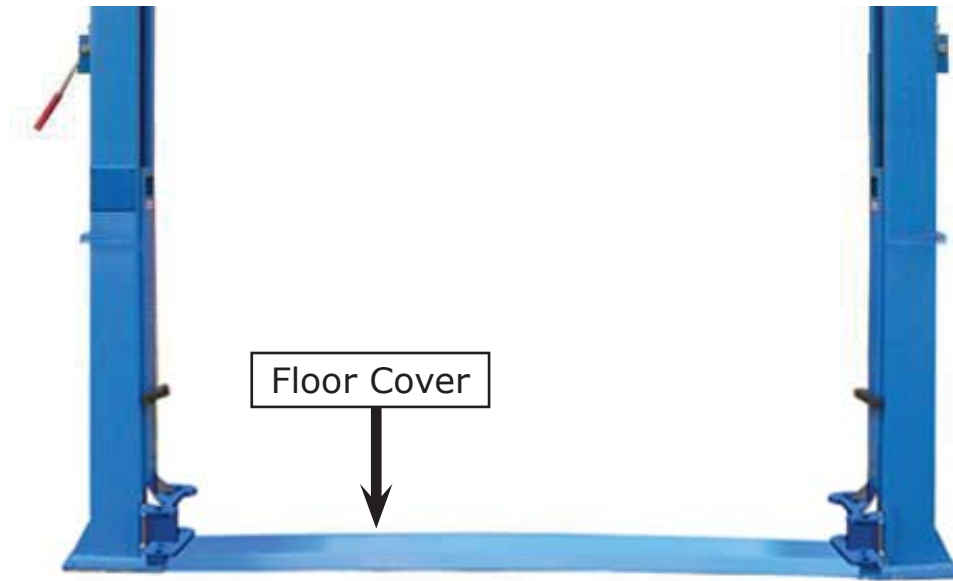
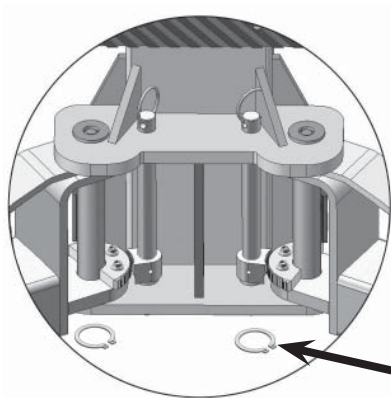


Fig. 22

N. Install Lifting Arms And Adjust The Arm Locks

1. Install the lifting arms (See Fig. 23).
2. Lower the carriages to the lowest position then use the 8# socket head wrench to loosen the socket bolt (See Fig. 24).
3. Adjust the arm lock according to the direction of arrow (See Fig. 25)
4. Adjust moon gear and arm lock to make it to be meshed, and then tighten the socket bolts of arm lock (See Fig. 26).



Snap Ring

Fig. 23

Use the 8#
Socket Head
Wrench to
loosen the
Socket Bolt

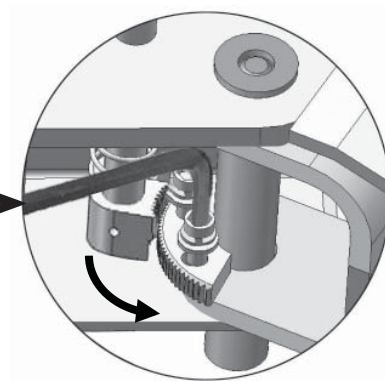
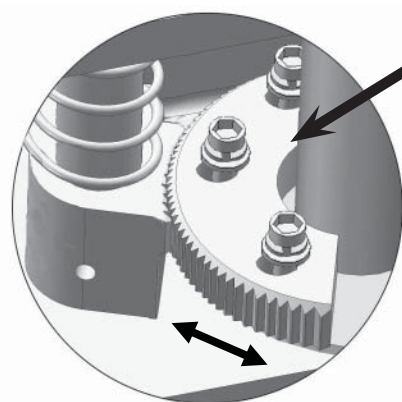
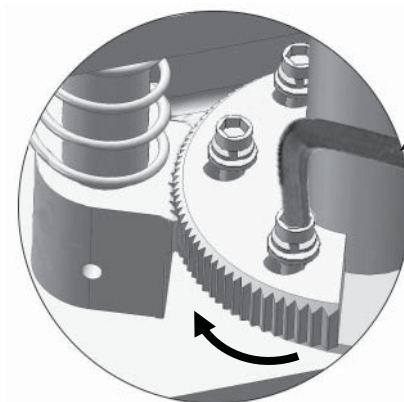


Fig. 24



Moon Gear

Fig. 25



Lock the bolts
after the
moon gear
and arm lock
engaged well

Fig. 26

O. Install Electrical System

Note: For safety of operators, the power wiring must contact the floor well. Pay attention to the direction of rotations when using three phase motors.

TMC-18 Contactor (220V Single Phase 60Hz 3HP)

1. Motor goes to **T2** (Black) and **T3**(White)

2. Power goes to **L2** (Black) and **L3** (White)

3. Operating Switch (OS) **Terminal 3** goes to **L3** (with the power connection)

4. Operating Switch (OS) **Terminal 4** goes to Relay Terminal (RT) **A2**

5. Relay Terminal (RT) **A1** goes to **L2**(Jumper wire)

***Installing Safety Interrupt Switch**

6. Remove Wire From Operating Switch (OS) **Terminal 4** to Relay Terminal (RT) **A2**

7. One wire of Safety Interrupt Switch (**SS1**) to Operating Switch (OS) **Terminal 4**

8. One wire of Safety Interrupt Switch (**SS2**) to Relay Terminal (RT) **A2**

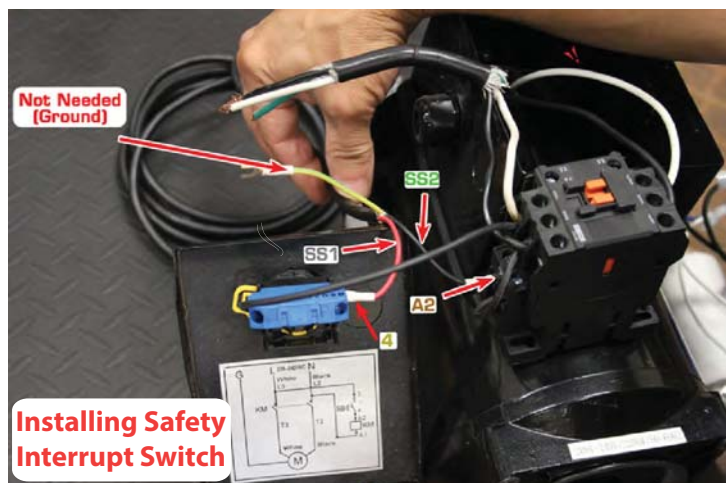
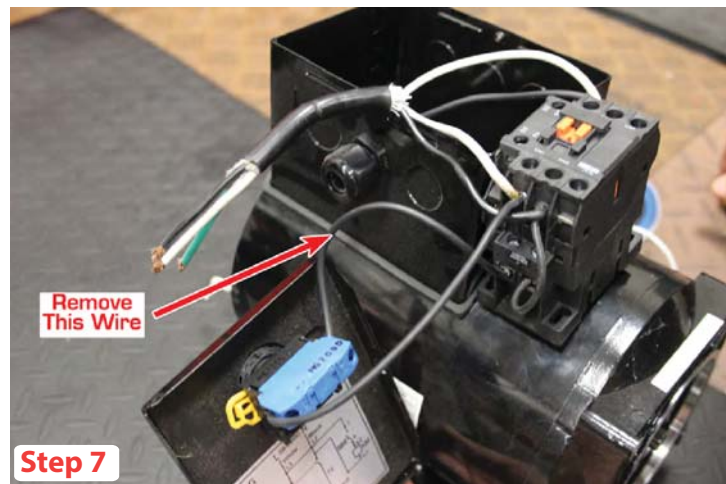
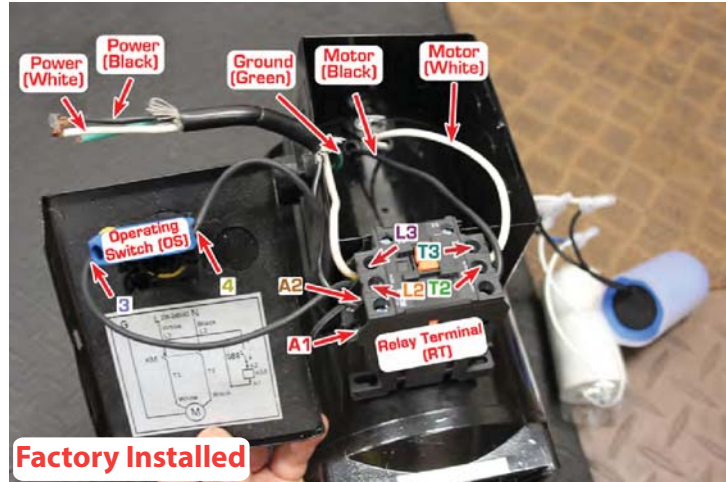


Fig. 27

Illustration Of Hydraulic Valve For Hydraulic Power Unit

Manual power unit, 220V/50HZ, Single phase (See Fig. 28)

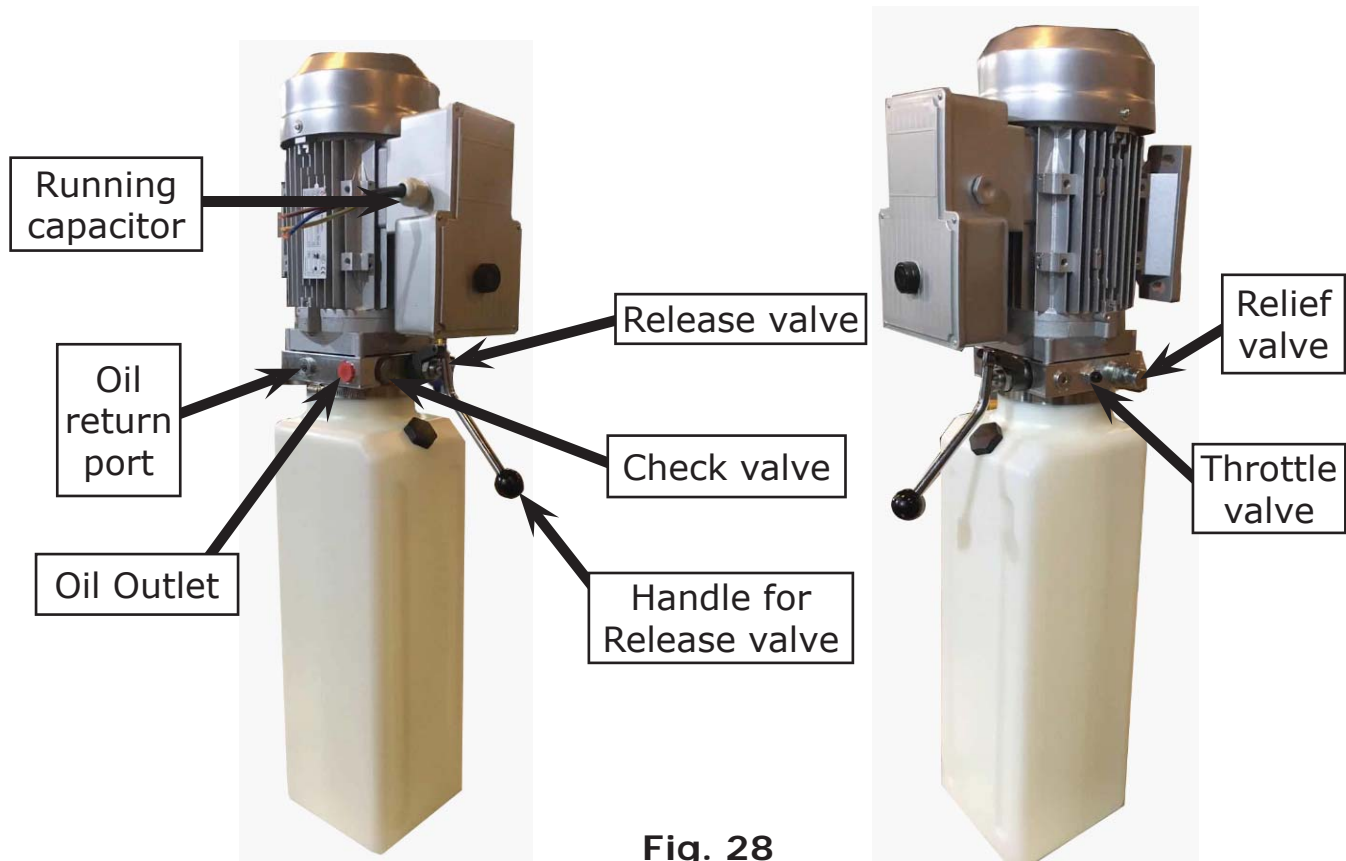


Fig. 28

Test Run

1. Adjust the equalizing cable (See Fig. 29)

Push button “UP” to lift the carriages until the cable nut is higher than chain pulley. Lock the carriage in the same level by pressing the release handle. Use wrench to hold the cable fitting, meanwhile use ratchet spanner to tighten the cable nut. Make sure two cables are with the same tension so that two carriage can work synchronously. Install the plastic hole cover on the carriages.

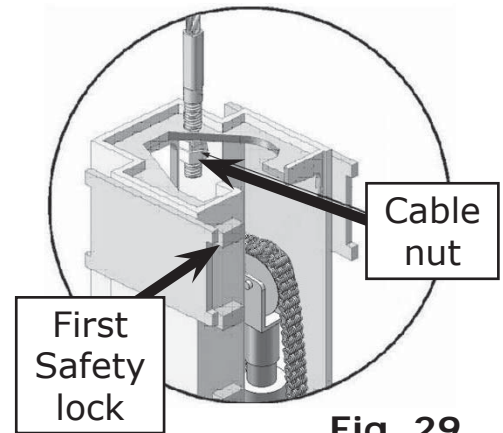


Fig. 29

If the carriage does not synchronize when lifting, please tighten the cable nut of lower side carriage.

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 can always be worked properly.

3. Adjust the lower speed

You can adjust the lower speed of the lift if needing: Loosen the Fixing 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 fixing nut after the lower speed adjustment has been done.

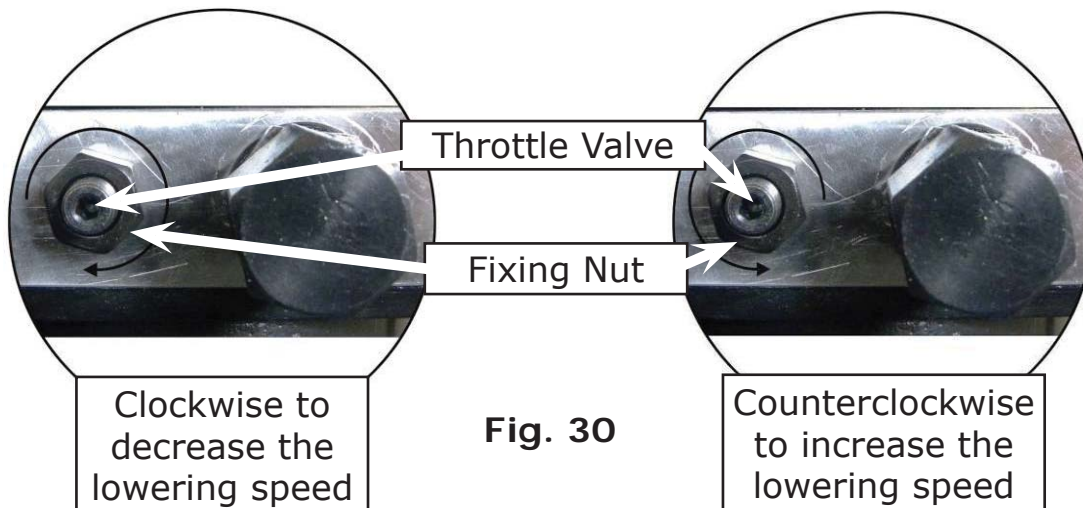


Fig. 30

4. Test with load

After finishing the above adjustment, test the lift with load. Raise the lift in low position for several times firstly, make sure the lift can be raised and lowered synchronously, and the safety device can be locked and released synchronously. And then raise the lift to the top position completely. If there is anything improper, repeat the above adjustment.

NOTE: It may be vibrated when lifting at start, please lifting it with load for several times, the air would be bled and the vibration would be disappeared automatically.

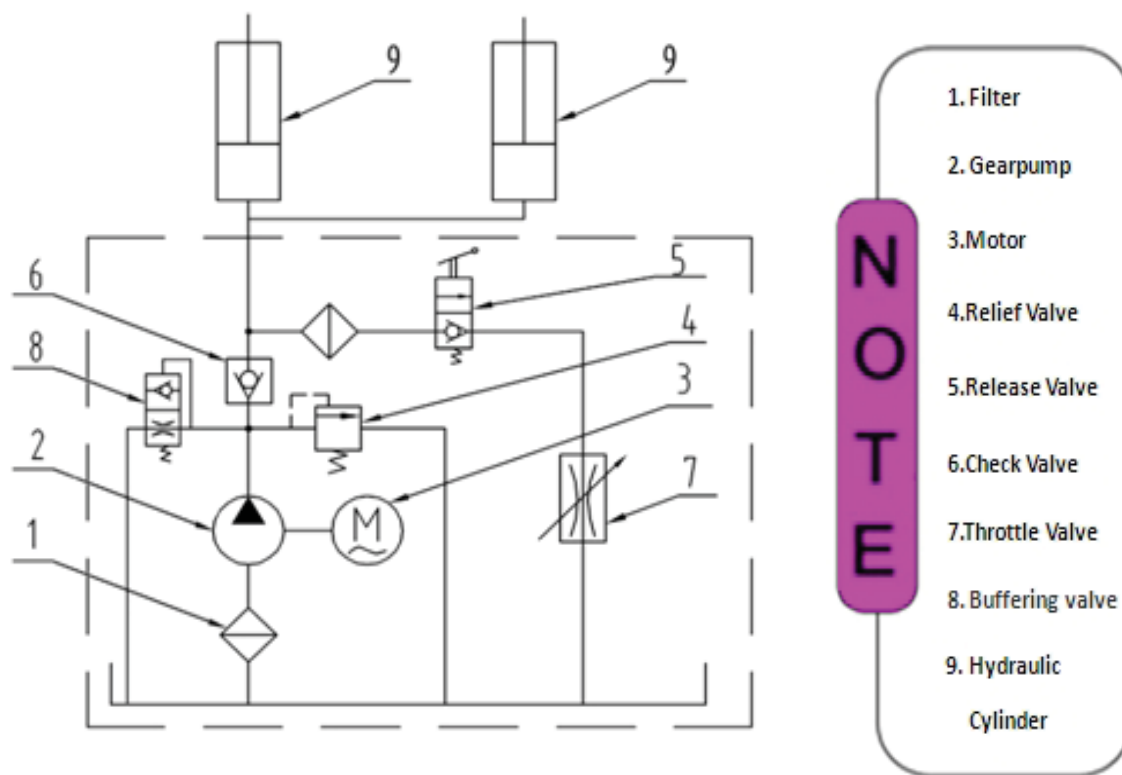


Fig. 31 Hydraulic System

Operation Instructions

Please read the safety tips carefully before operating the lift

To lift vehicle

1. Keep clean of site near the lift;
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 at the same time contact the vehicle's lifting point where manufacturers recommended

7. Press the **UP** button until the lift pads contact underside of vehicle totally.
Recheck 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. The vehicle is ready to repair.

To lower vehicle

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

Maintenance Schedule

Monthly:

1. Re-torque the anchor bolts to 65-86 lbs.;
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 it is in good condition;
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, equalizer tension on 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 it is in good condition.

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. AC contactor in damage 	<ol style="list-style-type: none"> 1. Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace or replace
Motor runs but the lift is not raised	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Release valve out of work 2. Relief valve or check Valve leakage 3. Cylinder or fittings 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 can not lower	<ol style="list-style-type: none"> 1. Safety device are locking. 2. Release valve in damage 3. Safety cable broken 4. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release the safeties 2. Repair or replace 3. Replace 4. Clean the oil system

Parts Breakdown

BP10000X

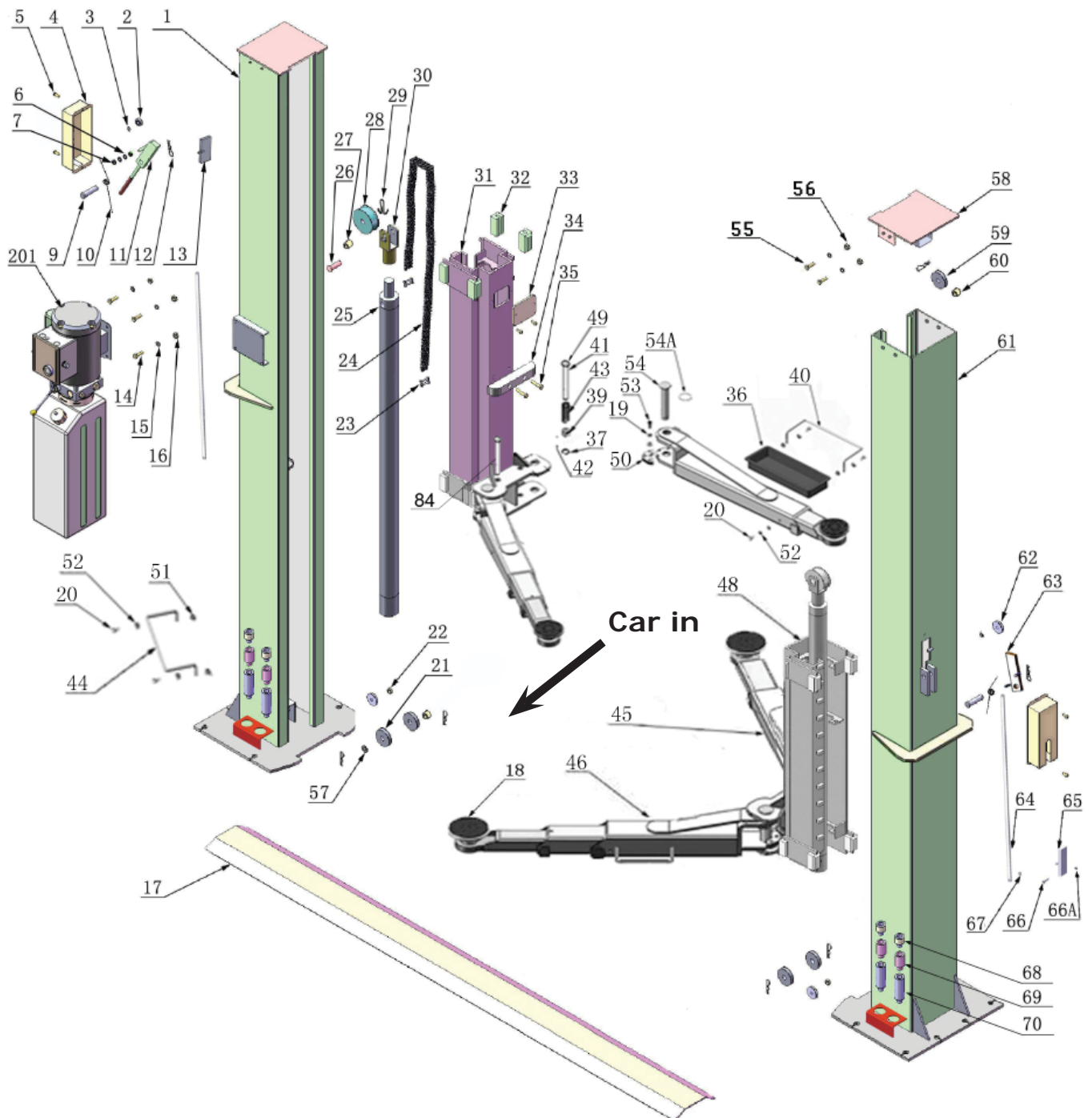


Fig. 32

BP10000X Parts List

Item	Part#	Description	Qty.
1	203141	Power side column	1
2	209011	Plastic Pulley	1
3	209010	Snap Ring	2
4	209008	Safety Cover	2
5	209009	Cup Head Bolt	10
6	206006	Washer	2
7	206023A	Hex Nut	2
201	209002	Manual Power Unit	1
9	206002	Safety Pin	2
10	209007	Safety Spring	2
11	203002	Power side Safety Lock	1
12	209012	Hair Pin	8
13	203015	Safety Block (Main)	1
14	209003	Hex Bolt	4
15	209004	Rubber Ring	4
16	209005	Self locking nut	4
17	203076	Floor Cover	1
18	217114A	Rubber Pad Assy.	4
18A	420138	Socket bolt	4
18B	209134	Rubber Pad	4
18C	680030B	Rubber Pad Frame	4
19	209039	Lock Washer	12
20	201002	Hex Bolt	14
21	209057	Pulley	4
22	209056	Self locking nut	2
23	201010A	Chain Connector	4
24	203005	Chain	2
25	203078	Hydraulic Cylinder	2
26	203040	Pin For Chain Pulley	2
27	203004A	Bronze bush for Chain Pulley	4
28	203004	Chain pulley	2

Item	Part#	Description	Qty.
29	201005	Split Pin	2
30	201004	Chain Pulley support	2
31	203143	Power side Carriage	1
32	209015	Slider	16
33	201038	Carriage Plastic Cover	2
34	206045	Protective Rubber	2
35	206046	Self-tapping Screw	4
36	206156	Tool tray	2
37	206032	Snap ring ϕ 25	4
38	209022	Washer ϕ 10	12
39	217044	Arm Lock	4
40	206154	Rear toe guard	2
41	217046A	Arm Lock Bar (Left)	2
42	206036	Hair Pin	4
43	217045	Snap Ring	4
44	206155	Front toe guard	2
45	203131	Lifting Arm –Rear (drop-in)	2
45A	203149	Outer Arm – Rear	2
45B	203150	Inner Arm - Rear	2
46	203130	Lifting Arm - Front (drop-in)	2
46A	203136	Outer Arm - Front	2
46B	203137	Middle Arm - Front	2
46C	203138	Inner Arm - Front	2
48	203145	Offside Carriage	1
49	209153	Pull-ring for arm lock bar	4
50	206049	Moon Gear	4
51	209033	ϕ 8 Washer	14
52	209034	Spring washer	14
53	206048	Socket Bolt	12
54	217168	Lifting arm pin	4
54A	520023	Snap ring	4
55	217069	Hex bolt	8
56	206023	Self locking Nut	8

Item	Part#	Description	Qty.
57	209128	Φ20 Washer	6
58	203077A	Top plate	2
59	209045	Pulley	2
60	209057A	Bronze Bush For Pulley	6
61	203142	Offside column	1
62	209049	Plastic Pulley (black)	3
63	203012	Offside Safety Lock	1
64	203013	Coupling	2
65	203014	Safety Block (Secondly)	1
66	205026	Socket Bolt	2
66A	610026	Self locking Nut	2
67	203016	Snap Ring	4
68	209051B	Stackable Adapter (1.5")	4
69	209052B	Stackable Adapter (2.5")	4
70	209053B	Stackable Adapter (5")	4
71	209059B	Anchor bolt	12
72	620065	Shim (2mm)	10
72A	201090	Shim (1mm)	10
73	203069	Cable	2
74	209066	Hex Nut	4
75	207024	900 Fitting	2
75A	201082	Extend straight fitting	2
76	420097	900 Fitting	2
77	203107	Oil Hose	2
77A	211016	T-Fitting	1
78	203106	Oil Hose	1
79	209060	900 Fitting for Power Unit	1
80	203071	Safety Cable	1
81	420045	Washer	2
82	217048	Retainer	2
83	203502A	Parts box	1
84	217046	Lifting arm bar (Right)	2

Cylinders

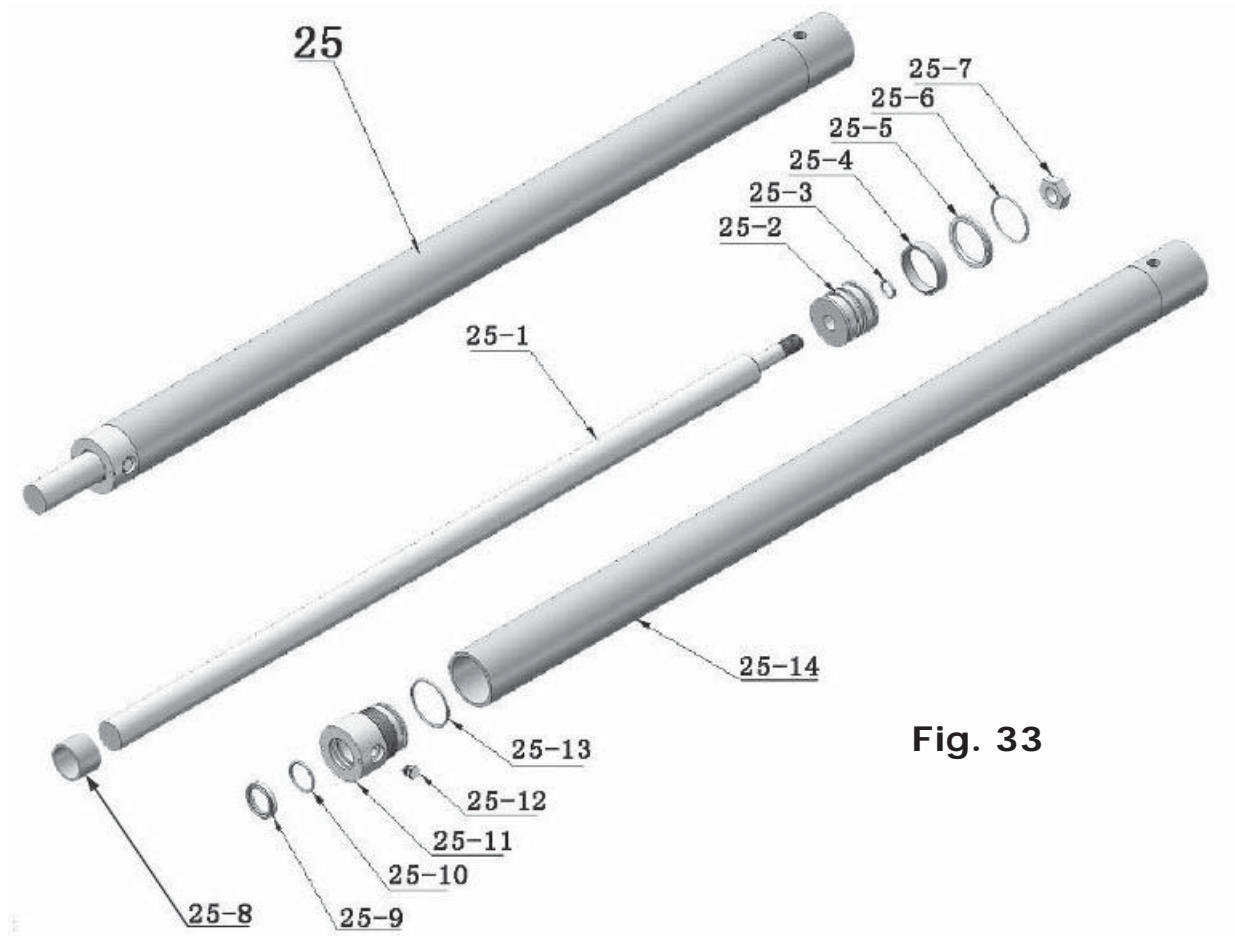


Fig. 33

Item	Part#	Description	Qty.
25-1	201027	Piston Rod	2
25-2	203079	Piston	2
25-3	206069	O-Ring	2
25-4	203080	Support Ring	2
25-5	410087	Y-Ring	2
25-6	203082	O-Ring	2
25-7	206071	Hex Nut	2
25-8	201037	Adjustment Tube	2
25-9	209078	Dust Ring	2
25-10	201032	O-Ring	2
25-11	203083	Head Cap	2
25-12	201034	Bleeding Plug	2
25-13	203084	O-Ring	2
25-14	203085	Bore Weldment	2

Manual Power Unit

220V/50HZ/1Phase

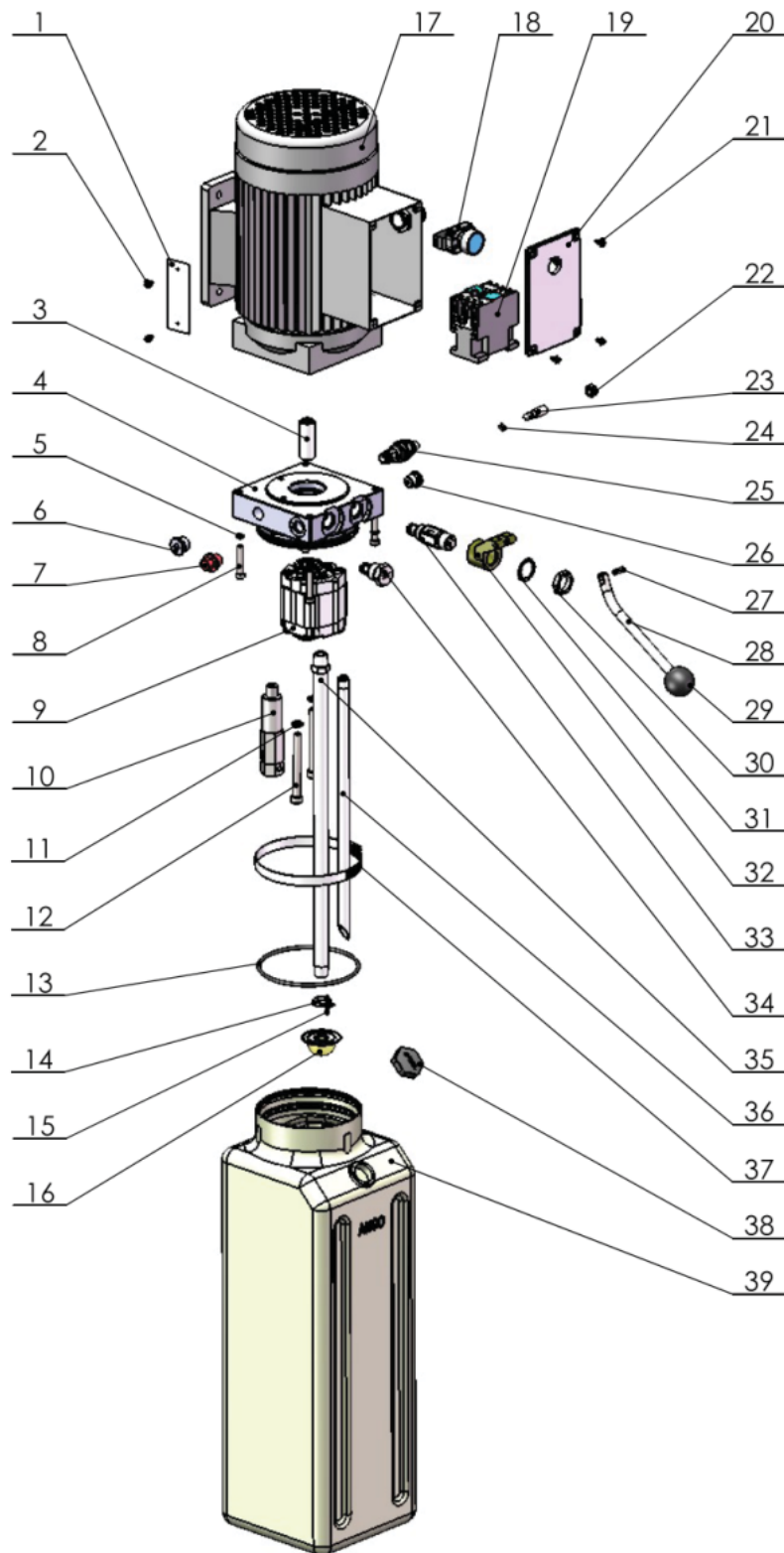


Fig. 34

Manual Power Unit Parts List

220V/50Hz/1 phase

Item	Part#	Description	Qty.
1	71150019	AMGO Name plate	1
2	81400300	Cup Head Bolt	2
3	81400363	Motor Connecting Shaft	1
4	81400362	Manifold block	1
5	10209149	Washer	4
6	81400276	Iron plug	1
7	81400259	Red rubber plug	1
8	85090142	Lock Washer	4
9	81400292	Gear pump	1
10	81400294	Buffer valve	1
11	10209034	Washer	2
12	81400295	Socket bolt	2
13	81400365	O ring	1
14	10209152	Ties	1
15	85090167	Magnet	1
16	81400290	Filter	1
17	81400453	Motor	1
18	41030055	AC connector	1
19	81400088	Run capacitor	1
20	81400130	Start capacitor	1
21	420148	Cup Head Bolt with washer	6
22	81400208	Cover of Motor Terminal Box	1
23	10420070	Push button	1
24	81400296	Nut	1
25	81400459	Throttle valve body	1
26	10209069	O ring	1
27	81400266	Relief valve	1
28	81400284	Iron plug	1
29	81400452	Oil Return Pipe	1
30	81400451	Hair pin	1

Item	Part#	Description	Qty.
31	10209020	Plastic ball	1
32	81400125	Nut for release valve	1
33	81400124	Shim for release valve	1
34	81400450	Valve seat(high)	1
35	81400443	Release valve	1
36	81400267	Check valve	1
37	81400288	Inlet pipe	1
38	81400289	Oil return pipe	1
39	81400364	Hose clamp	1
40	81400263	Oil tank cap	1
41	81400275	Oil tank	1

Warranty



This item is warranted for five (5) years on structural components, two (2) years on hydraulic cylinders, and one (1) year on electric or air / hydraulic power units from invoice date. Wear items are covered by a 90 day warranty.

This LIMITED warranty policy does **not include a labor** warranty.

NOTE: ALL WARRANTY CLAIMS MUST BE PRE-APPROVED BY THE MANUFACTURER TO BE VALID.

The Manufacturer shall repair or replace at their option for this period those parts returned to the factory freight prepaid, which prove after inspection to be defective. This warranty will not apply unless the product is installed, used and maintained in accordance with the Manufacturers installation, operation and maintenance instructions.

This warranty applies to the ORIGINAL purchaser only, and is non-transferable. The warranty covers the products to be free of defects in material and workmanship but, does not cover normal maintenance or adjustments, damage or malfunction caused by: improper handling, installation, abuse, misuse, negligence, carelessness of operation or normal wear and tear. In addition, this warranty does not cover equipment when repairs or alterations have been made or attempted to the Manufacturer's products.

THIS WARRANTY IS EXCLUSIVE AND IS LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FROM A PARTICULAR PURPOSE, AND ALL SUCH IMPLIED WARRANTIES ARE EXPRESSLY EXCLUDED.

THE REMEDIES DESCRIBED ARE EXCLUSIVE AND IN NO EVENT SHALL THE MANUFACTURER, NOR ANY SALES AGENT OR OTHER COMPANY AFFILIATED WITH IT OR THEM, BE LIABLE FOR SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR THE BREACH OF OR DELAY IN PERFORMANCE OF THIS WARRANTY. THIS INCLUDES, BUT IS NOT LIMITED TO, LOSS OF PROFIT, RENTAL OR SUBSTITUTE EQUIPMENT OR OTHER COMMERCIAL LOSS.

PRICES: Prices and specifications are subject to change without notice. All orders will be invoiced at prices prevailing at time of shipment. Prices do not include any local, state or federal taxes.

RETURNS: Products may not be returned without prior written approval from the Manufacturer.

DUE TO THE COMPETITIVENESS OF THE SELLING PRICE OF THESE LIFTS, THIS WARRANTY POLICY WILL BE STRICTLY ADMINISTERED AND ADHERED TO.