INSTALLATION & OPERATION MANUAL

Atlas BP10000

10,000 lb. Capacity Two-Post Baseplate Lift

Atlas Automotive Equipment
www.atlasautoequipment.com
(866) 898-2604

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 _____

Contents

Specifications

BP10000 Floorplate Chain-Drive Two Post Lift (See Fig. 1)

- Compact design
- Dual hydraulic cylinders, designed and made on ANSI standards, utilizing NOK oil seals in the cylinders
- Self-lubricating UHMW Polyethylene sliders and bronze bushings
- 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

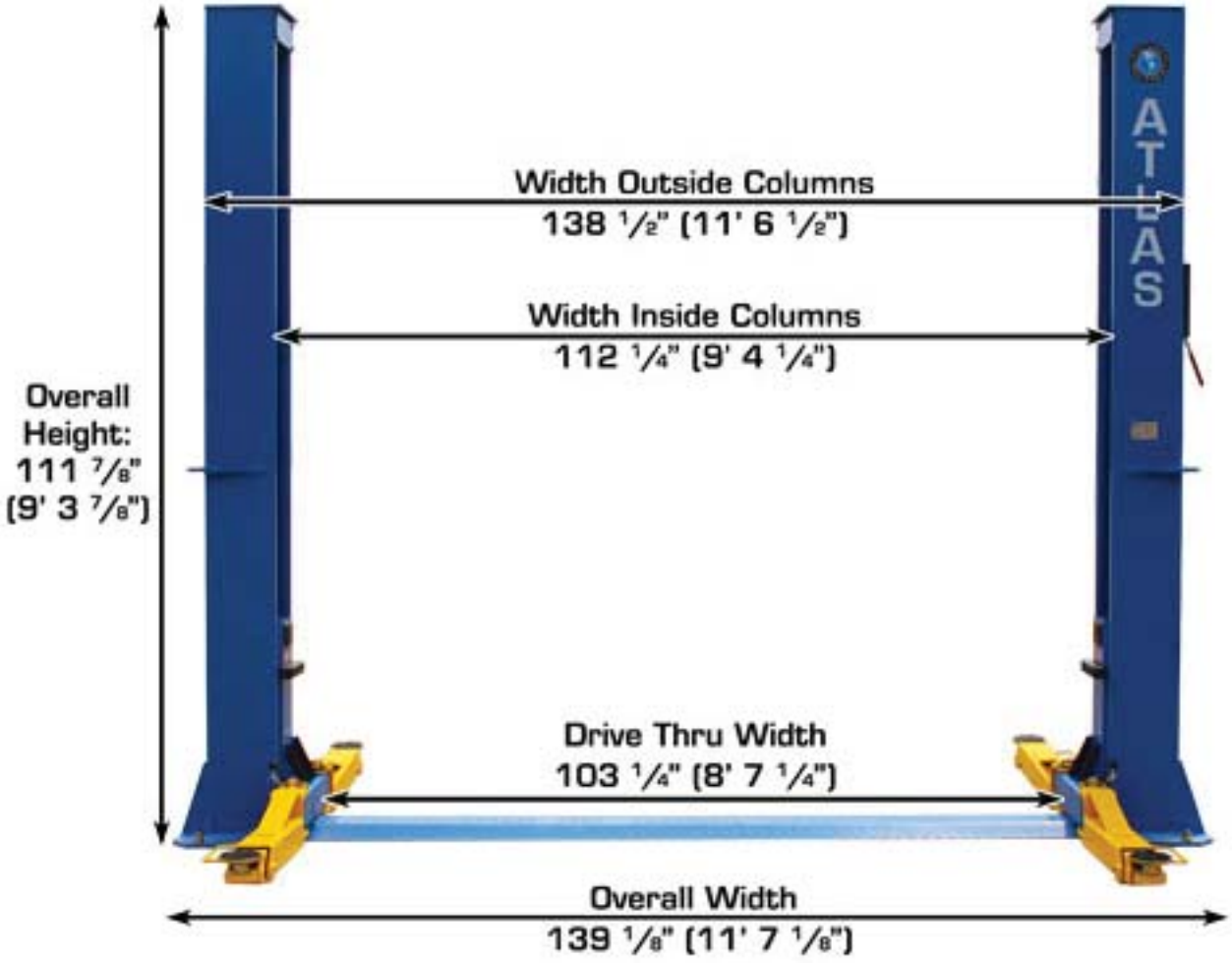


Fig. 1

BP10000 Specifications

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Width Between Columns	Minimum Pad Height	Gross Weight	Motor
BP10000	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	3.0 HP

Arm Swing View

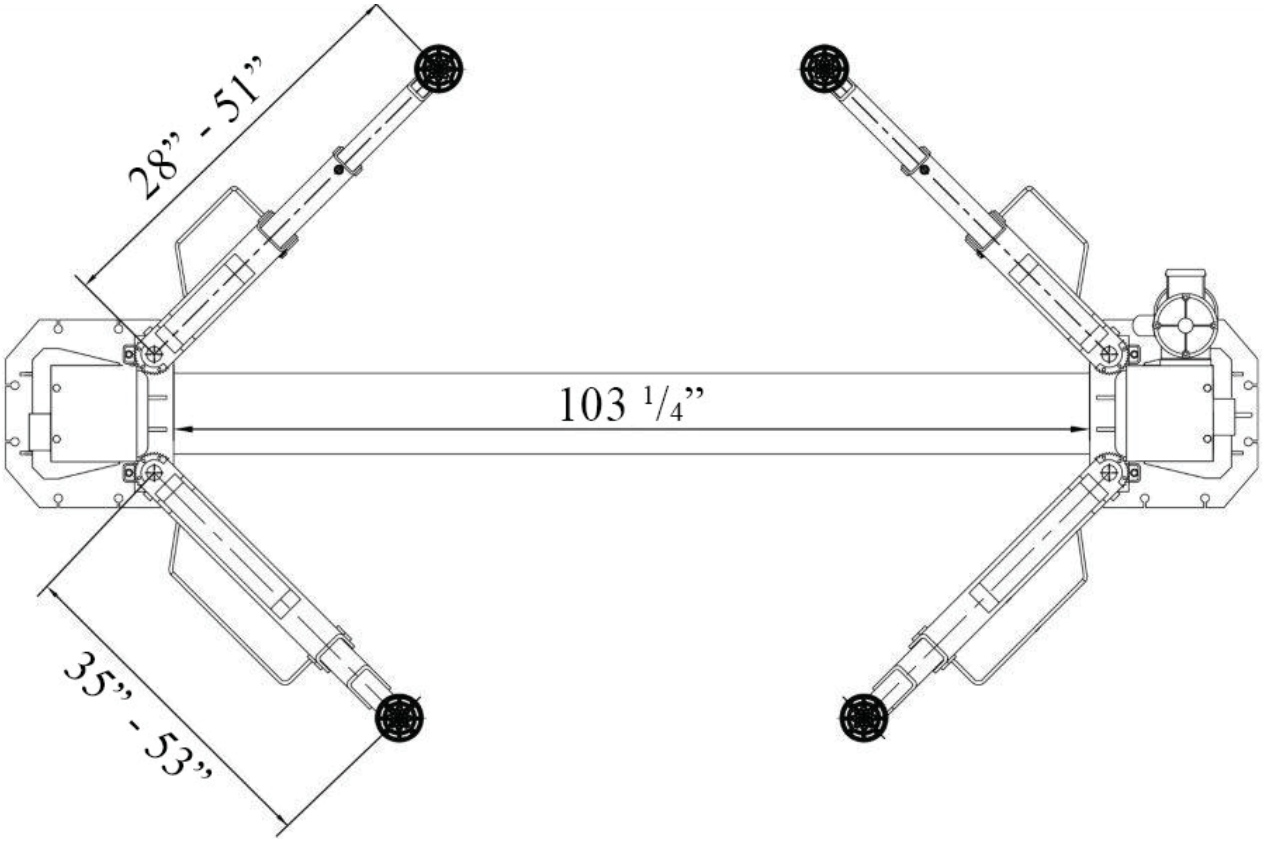


Fig. 2

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

Fig. 3

Specifications Of Concrete (See Fig. 4).

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 have 4 inches minimum and must be totally cured before lift installation.

2. Concrete must be in good condition and must have a test strength 3,000psi minimum.

3. Floors must be level with no cracks or holes.

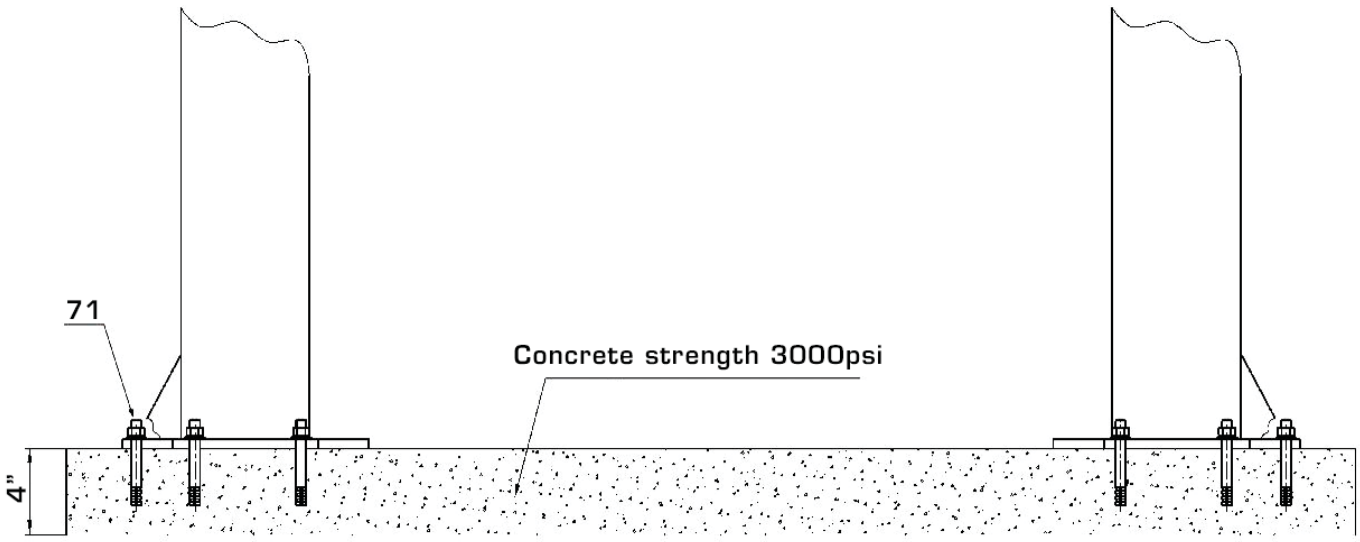


Fig. 4

Power Supply

220 volt single phase motor on a 30 amp breaker with minimum of 10 gauge wire. Operating voltage range is 208v-230v.

Steps Of Installation

A. Location of Installation

Check and ensure 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 base plate (See Fig. 5).

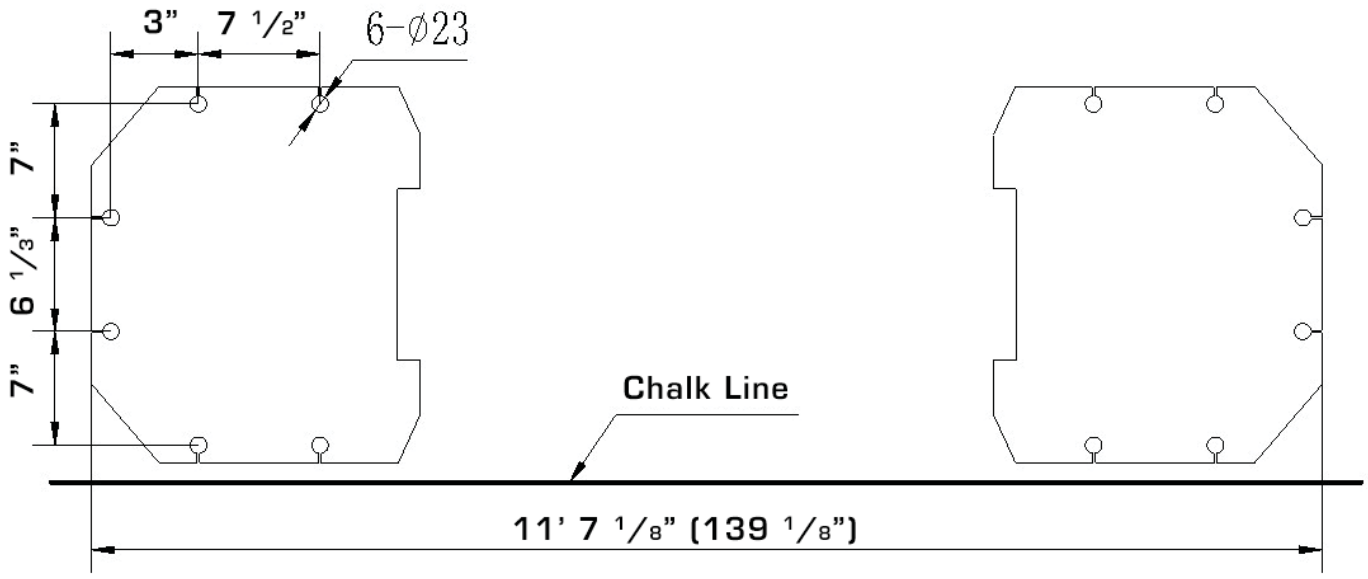


Fig. 5

C. Check the parts before assembly.

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

Fig.6

2. Move the lift with fork lift or hoist, open the outer packing and check the parts with the shipment list **(See Fig. 7).**

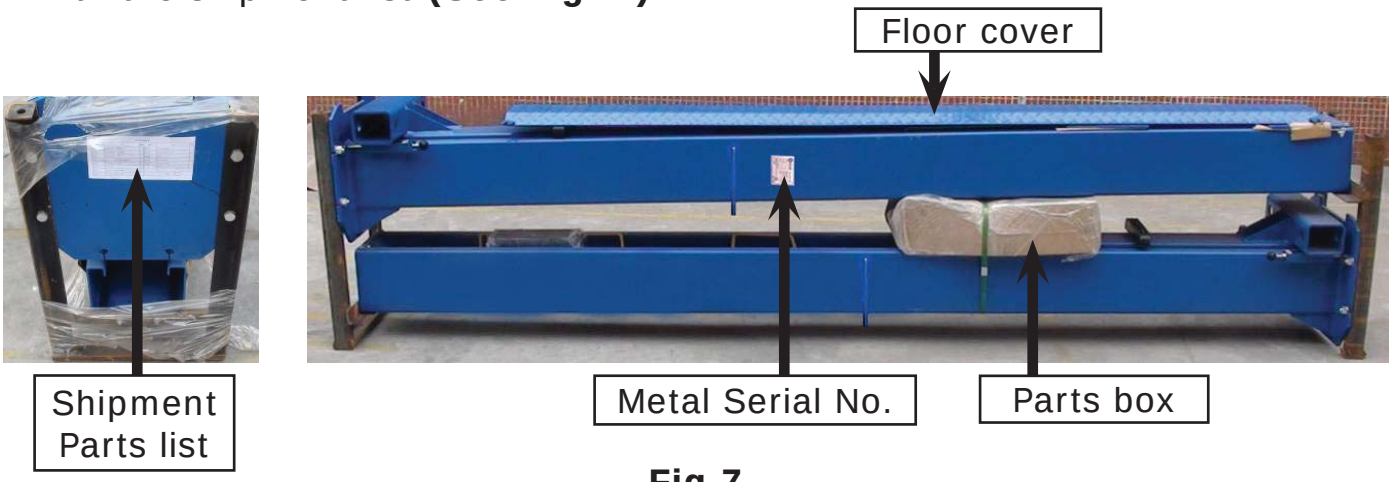


Fig.7

3. Loosen the bolts on the upper package stand, remove the upper column then remove the package stand**.**

4. Set aside the parts and check the parts according to the shipment parts list **(See Fig. 8).**

Fig. 8

5. Open the carton of parts and check the parts according to parts box list **(See Fig. 9).**

Fig. 9

6. Check the parts in the parts bag according to parts bag list (**See Fig. 10).**

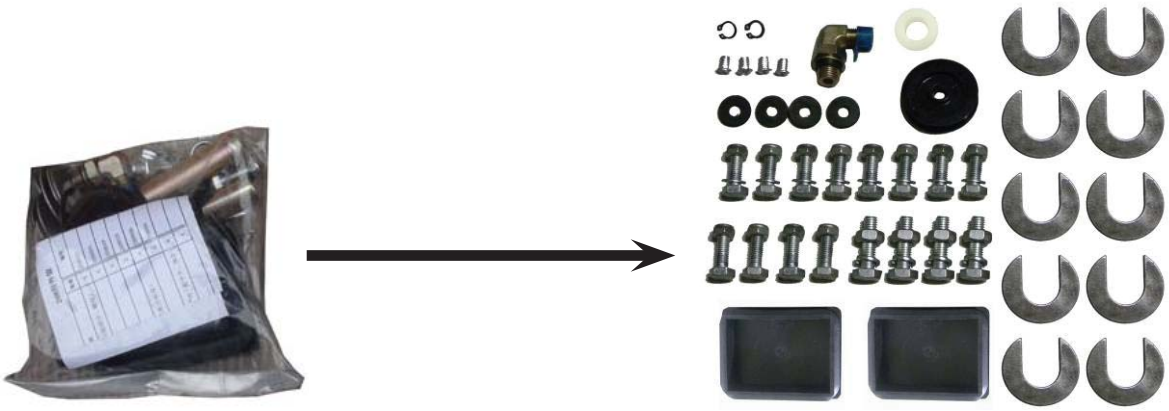


Fig. 10

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 and top connecting plate assembly. Usually, it is suggested to install power side column on the front-right side from which vehicles are driven into the lift **(See Fig. 11)**.

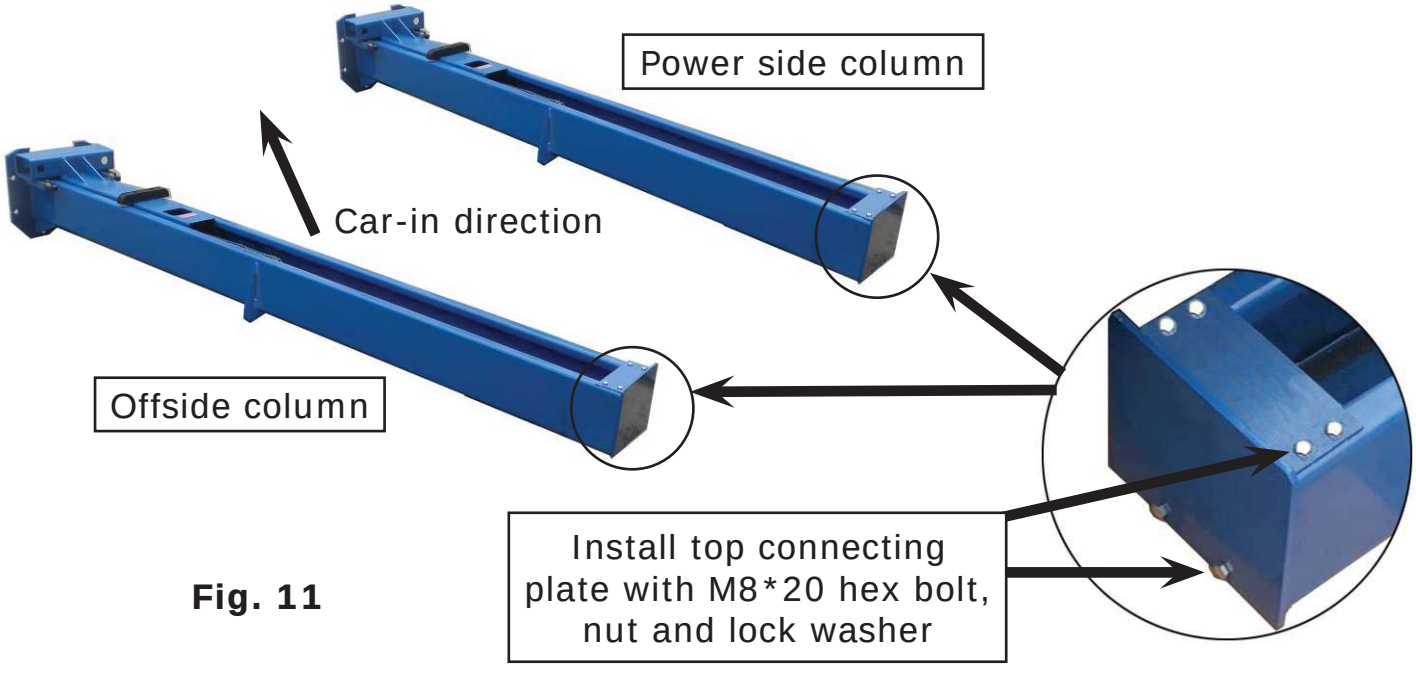


Fig. 11

E. Connecting the cables

1. Push the carriages higher than chain pulley **(See Fig. 12).**

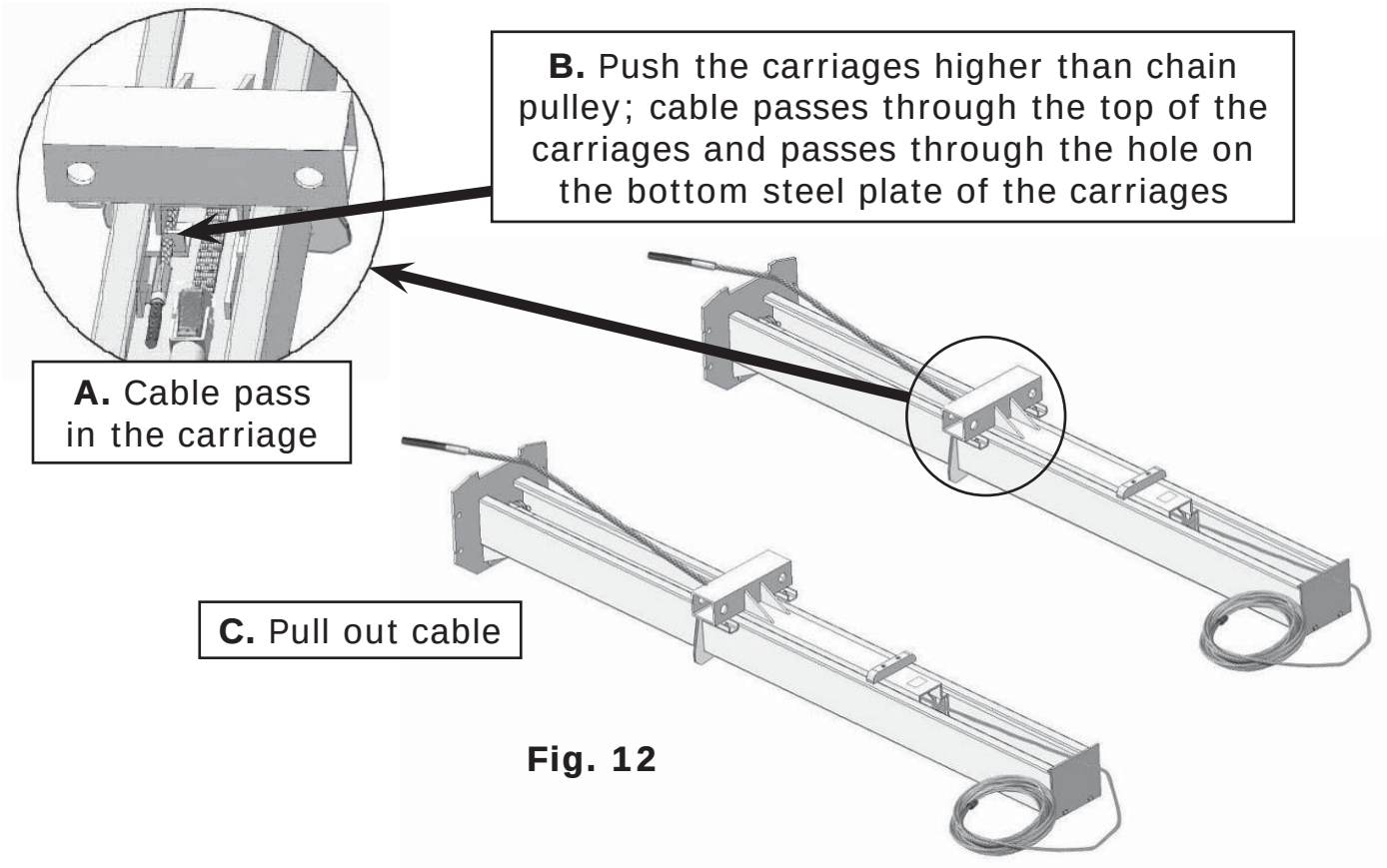


Fig. 12

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

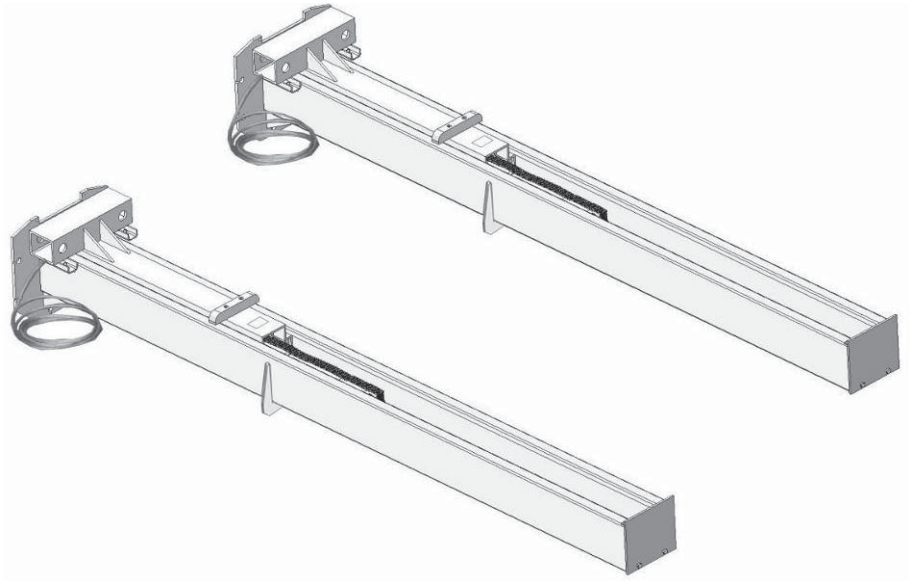


Fig. 13

F. Position columns (See Fig. 14)

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

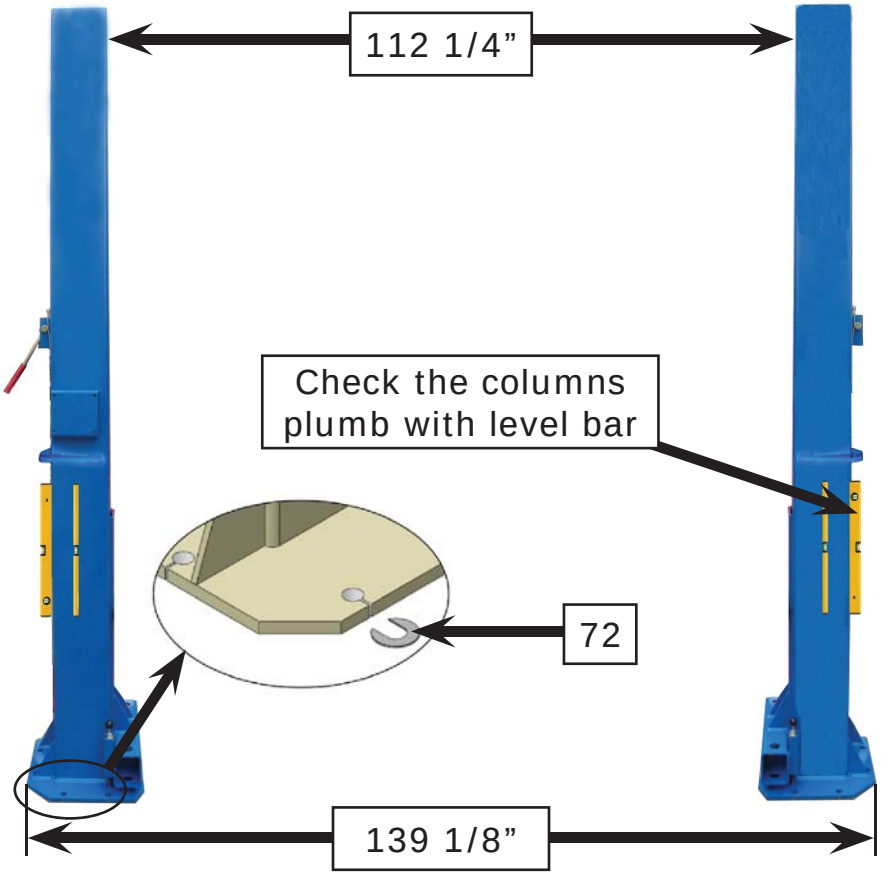


Fig. 14

G. Fix anchor bolts

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

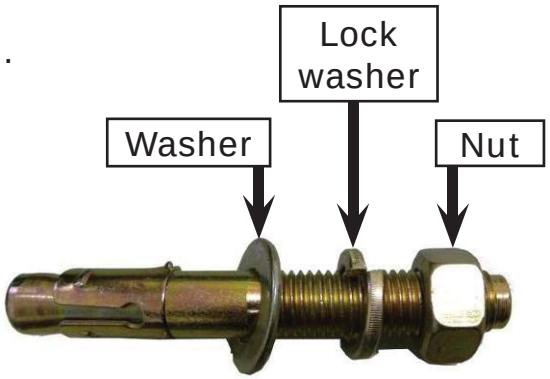


Fig. 15

2. Use a rotary hammer drill and drill all the anchor holes and install the anchor bolts. Then tighten the anchor bolts. If the top of the anchor exceeds 2-1/4" above the floor grade, you **DO NOT** have enough embedment **(See Fig. 16). Torque anchors to 65-86lbs.**

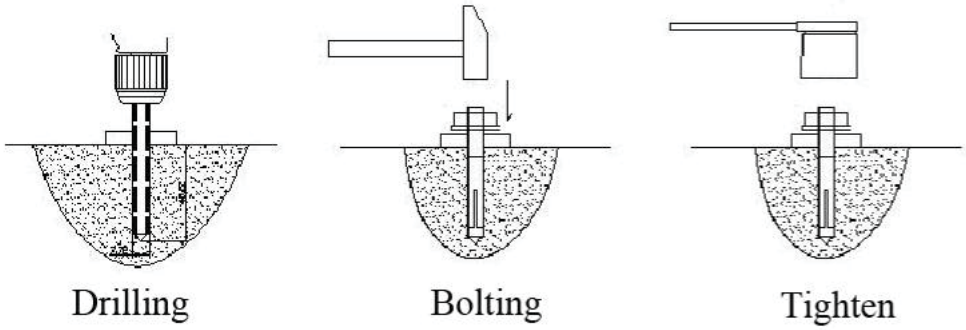


Fig. 16

H. Lift the carriages up by hand and make so they lock at the same level **(See Fig. 17).**

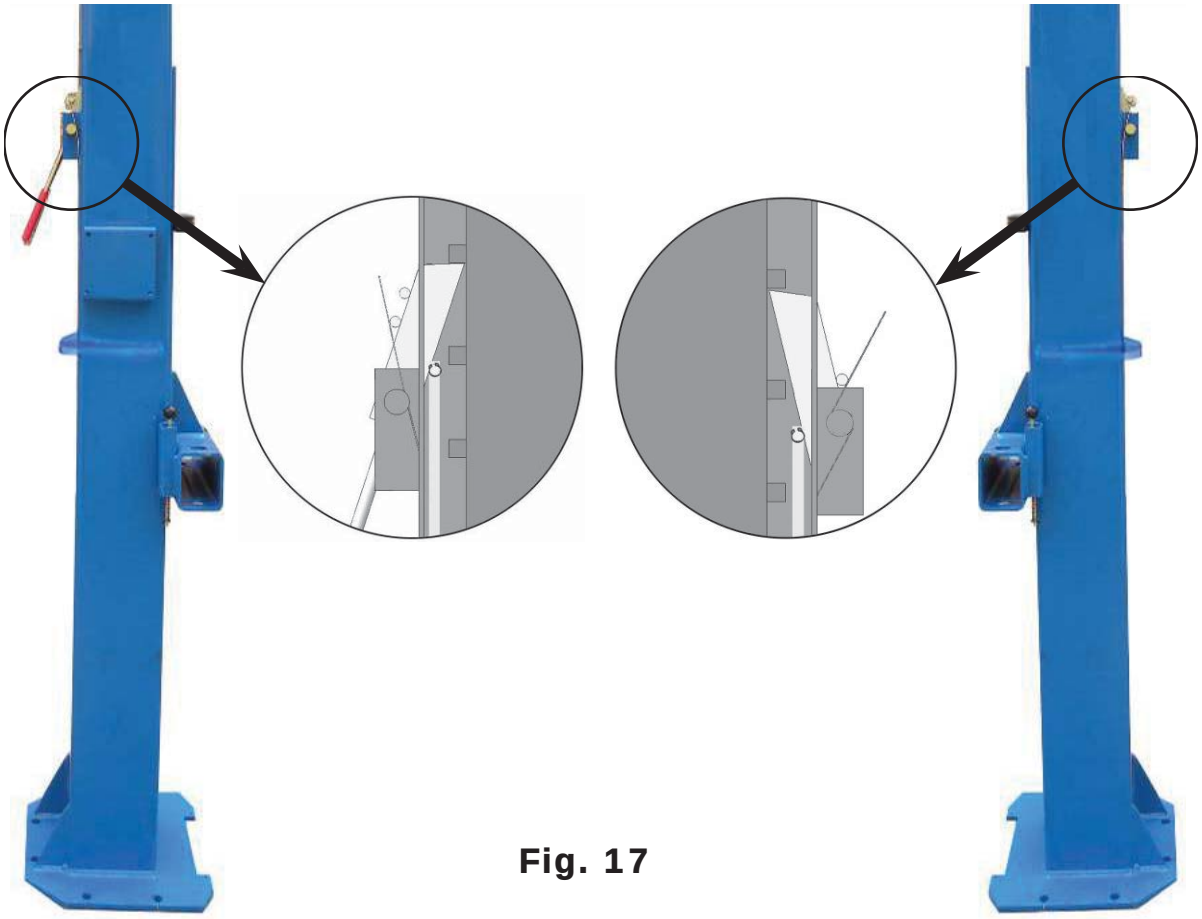


Fig. 17

I. Install cables (See Fig. 18)

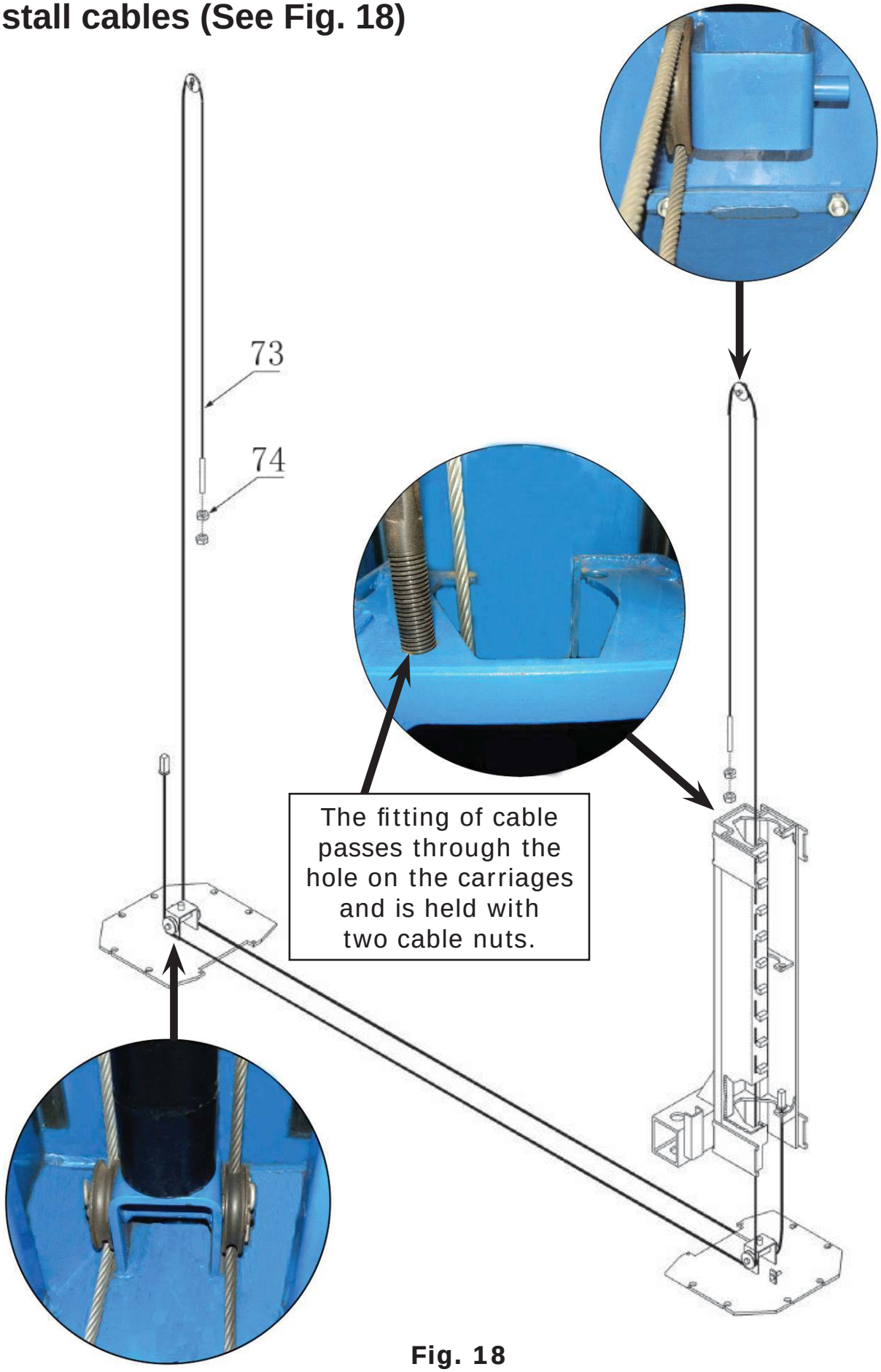


Fig. 18

J. Assembly oil hose assembly. (See Fig. 19).

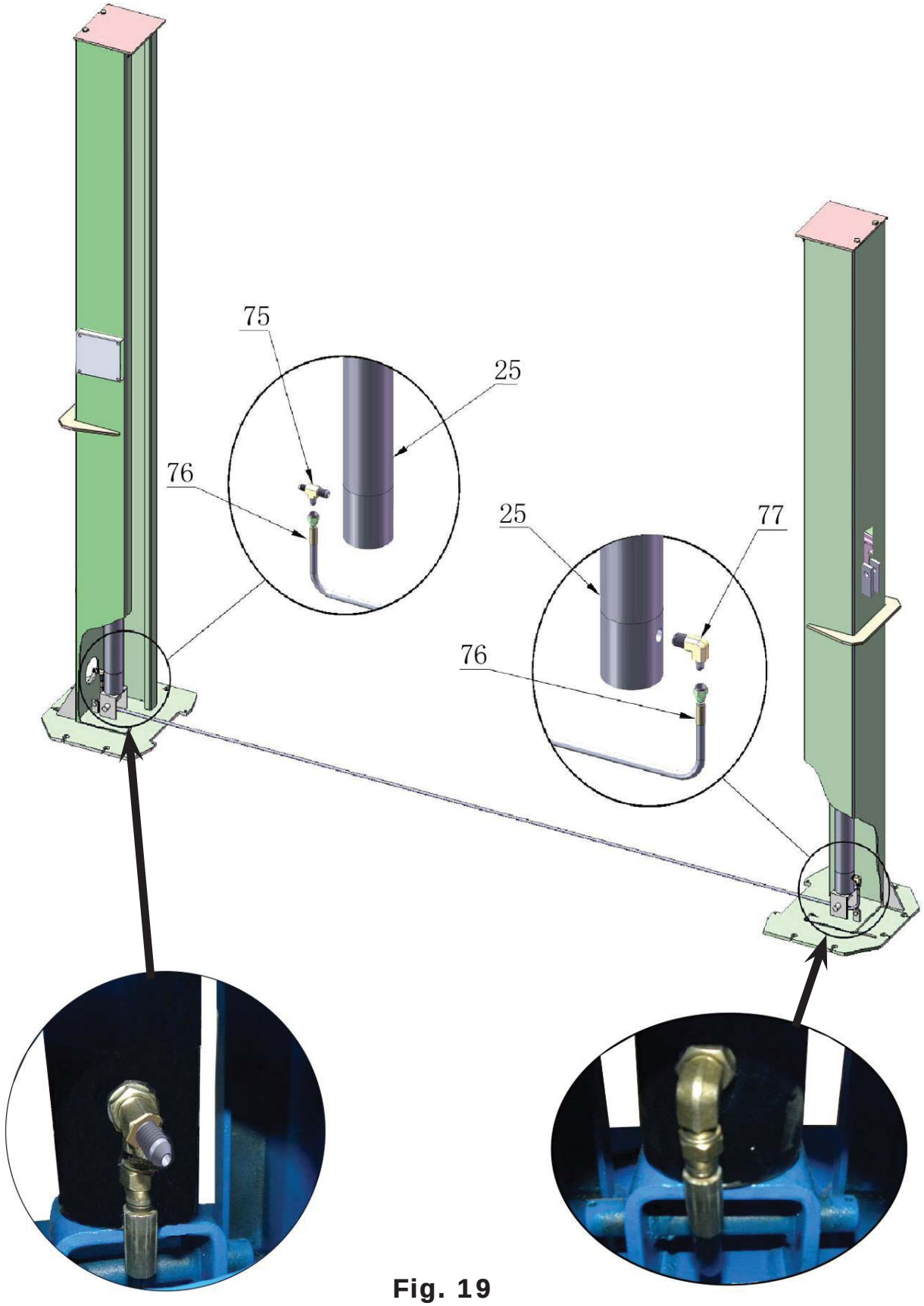


Fig. 19

K. Install hydraulic power unit and oil hose assembly. (See Fig. 20).

Tighten all the hydraulic fittings and fill the reservoir with approximately 3 gallons of hydraulic oil.

Note: In consideration of Power Unit's durability and keeping the equipment running in good condition, please use Hydraulic Oil AW32

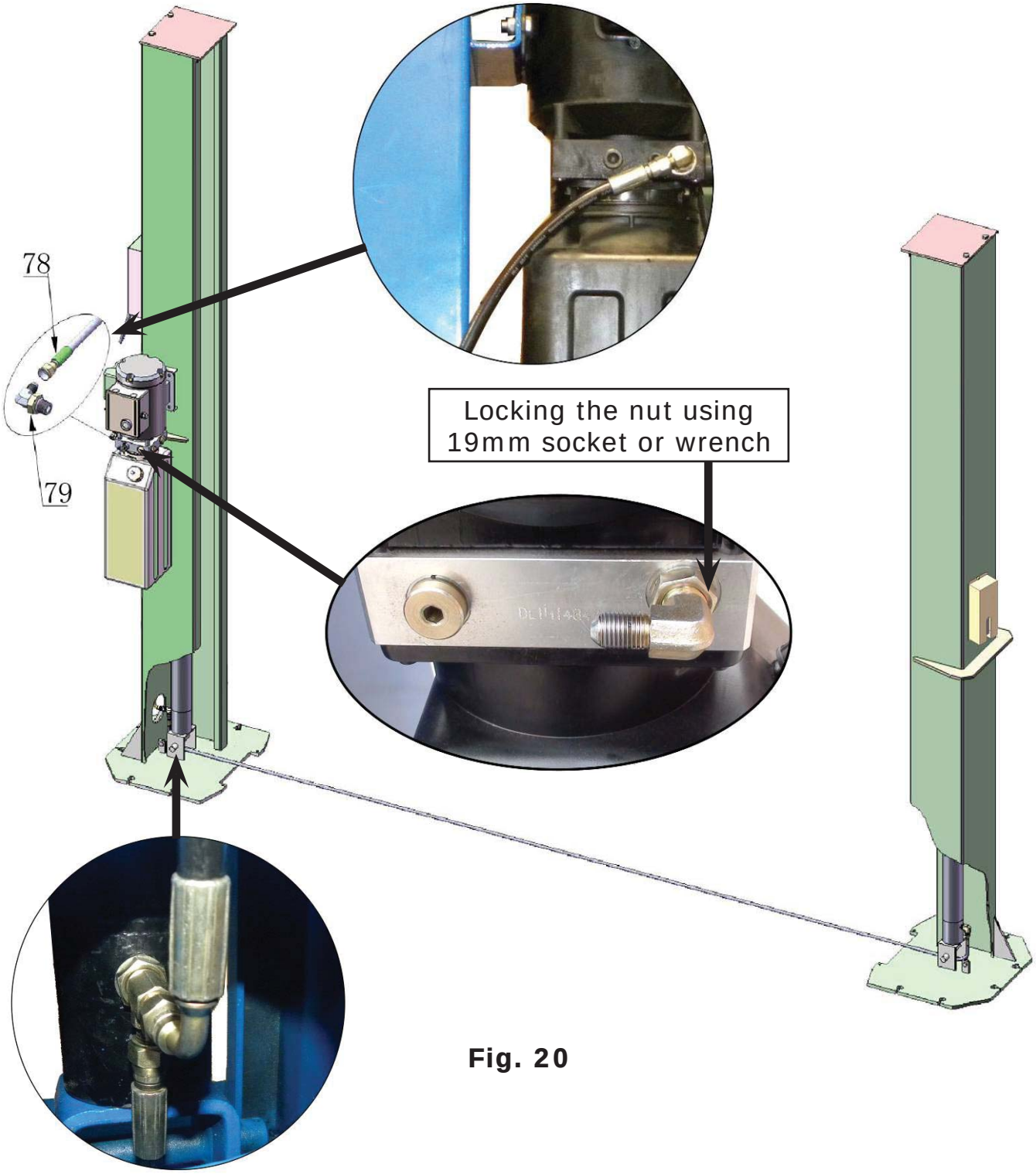


Fig. 20

L. Install safety the device and safety cable (See Fig. 21).

NOTE: 1. Assemble safety cable from offside safety assembly first.

2. Pay attention to the connecting direction on the safety cable.

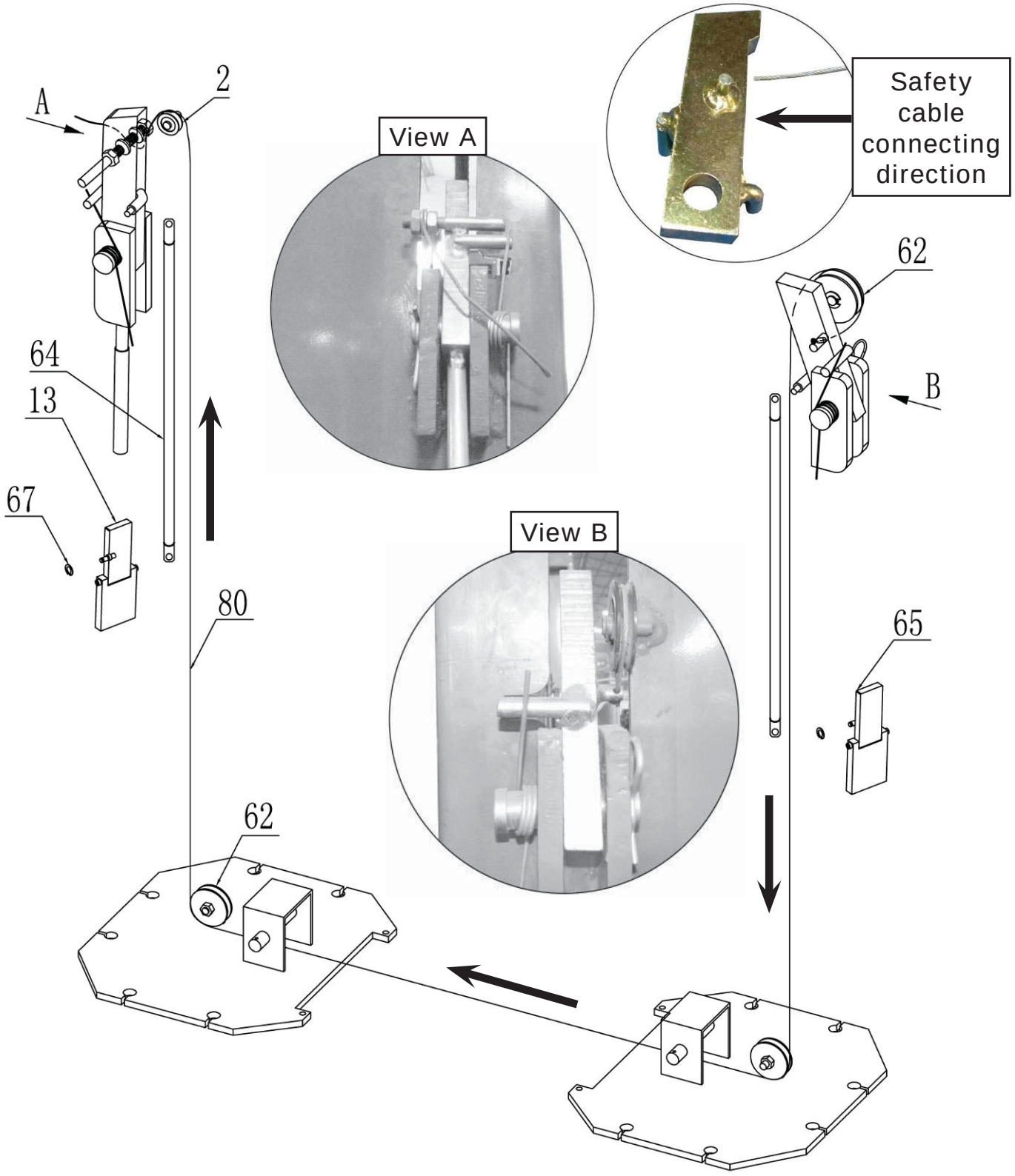


Fig. 21

M. Assemble floor cover and protective rubber door guards (See Fig. 22).

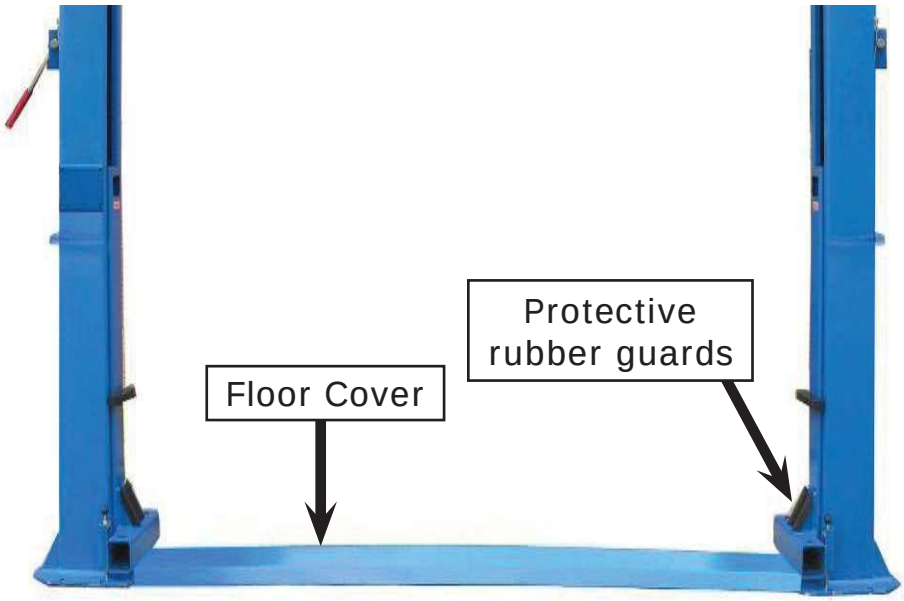


Fig.22

N. Install lifting arms and adjust the arm locks

1. Install the lifting arms **(See Fig. 23)**

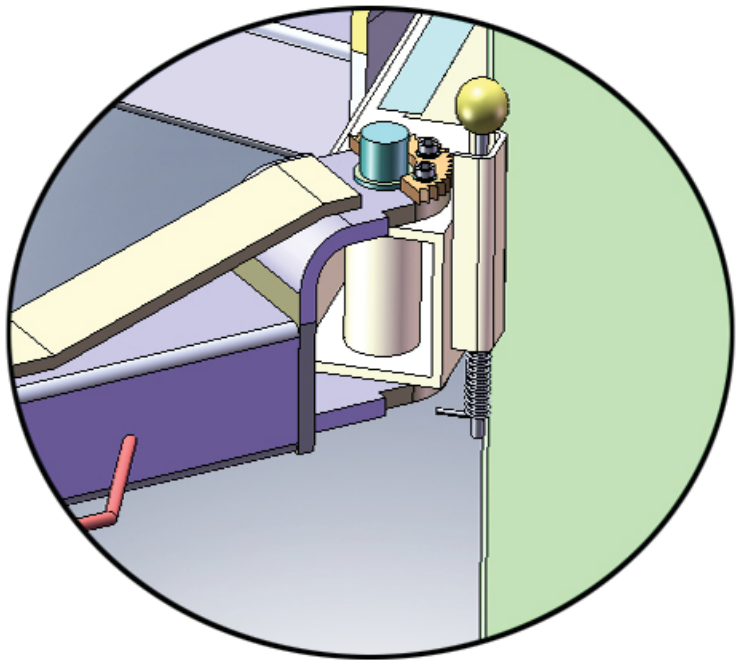


Fig.23

2. Lower the carriages down to the lowest position, then use the 17mm wrench to loosen the nut **(See Fig. 24)**

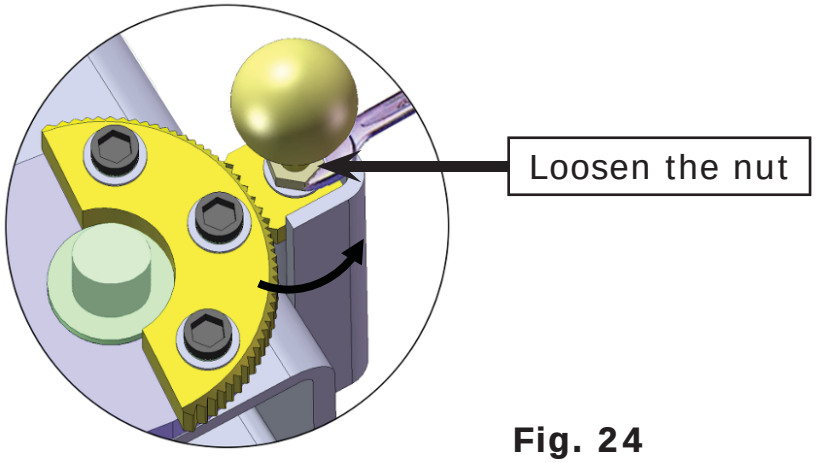


Fig. 24

3. Adjust the arm lock as arrow direction **(See Fig. 25)**

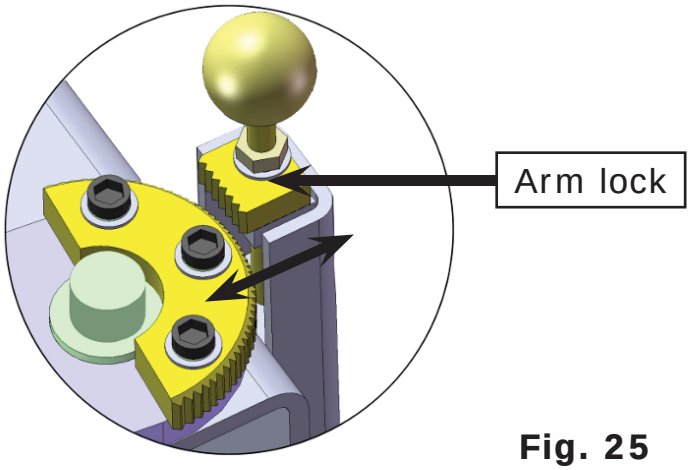


Fig. 25

4. Adjust the moon gear and arm lock so it meshes, tighten the bolts on the arm lock **(See Fig. 26)**

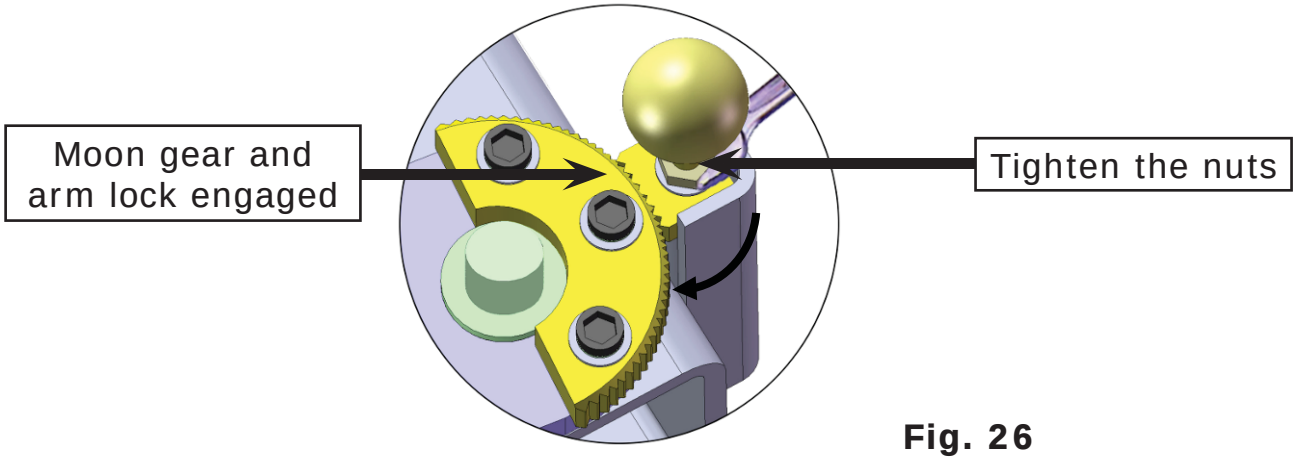


Fig. 26

O. Install the Electrical System

Connect the power source on the data plate of Power Unit. Operating voltage range 208v-230v.

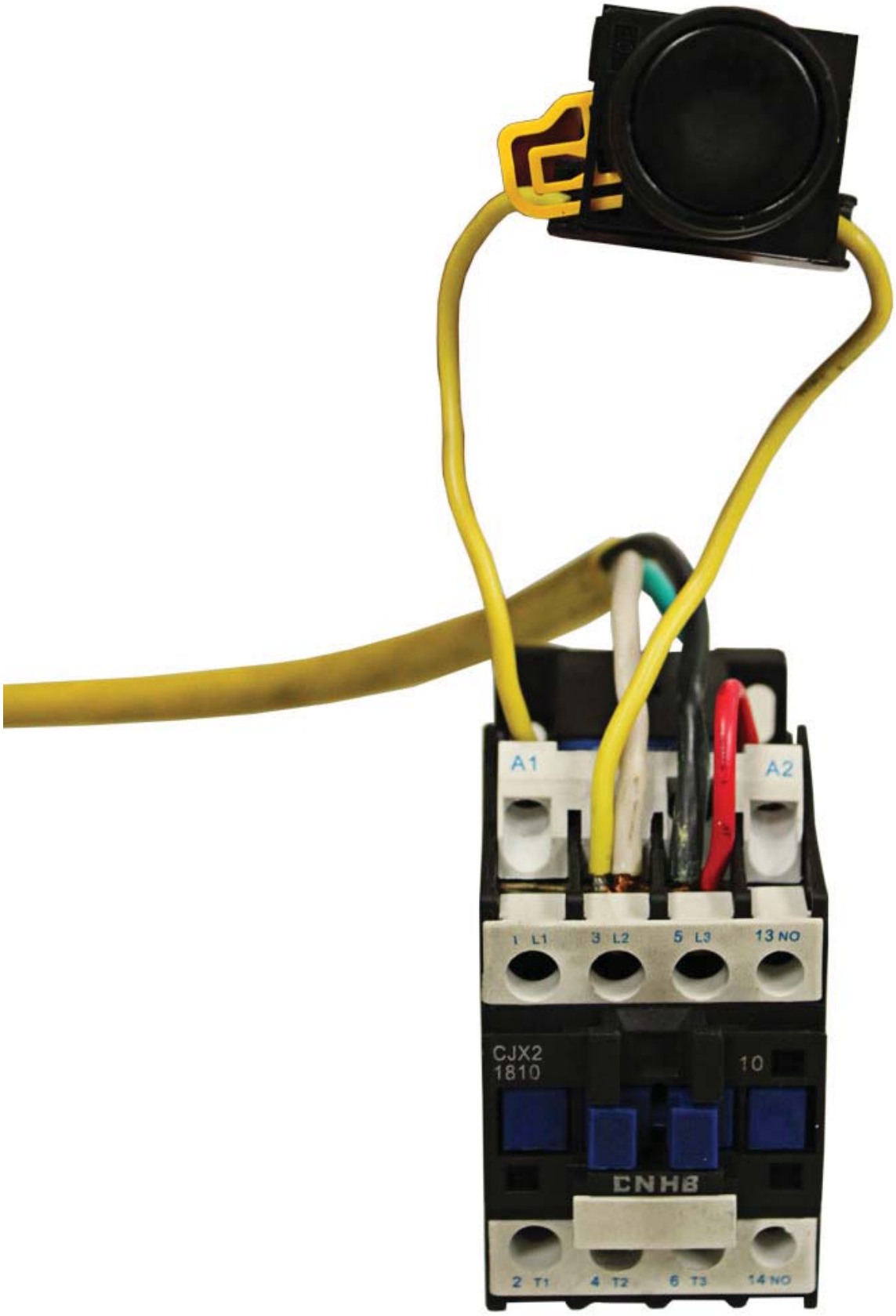
Remove the short “Pig Tail” wire connected to the AC contactor terminals. This wire was used to test the motor after production.

Atlas Single Phase Motor

Please Note: This motor is powered by Alternating Current and the terminals on the AC contactor are not wire color specific. There are no positive or negative terminals.

1. Connect the two power supply **(incoming)** wires ***(black & white)*** to terminals on the AC contactor marked **L2 & L3**.
2. Connect the two motor wires to terminals on the AC contactor marked **T2, T3**. **These wires are already connected from the factory.**
3. Connect the short wire **A2** to **L3** on the AC contactor. **This wire is already connected from the factory.**

AC CONTACTOR


A1
A2
1 L1
3 L2
5 L3
13 NO
CJX2
1810
10
CNH8
2 T1
4 T2
6 T3
14 NO

Exploded View

BP10000

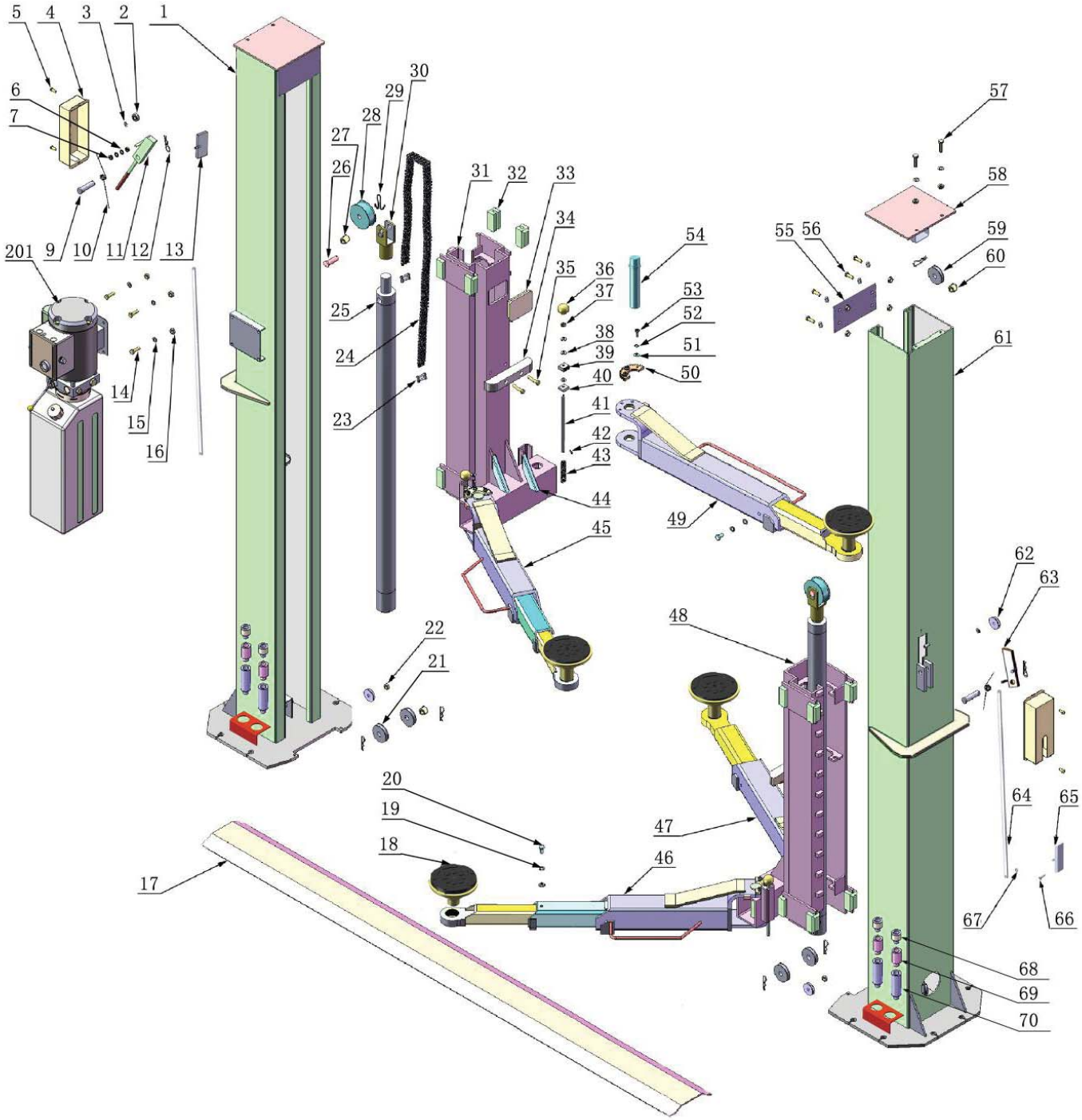


Fig. 27

Cylinders

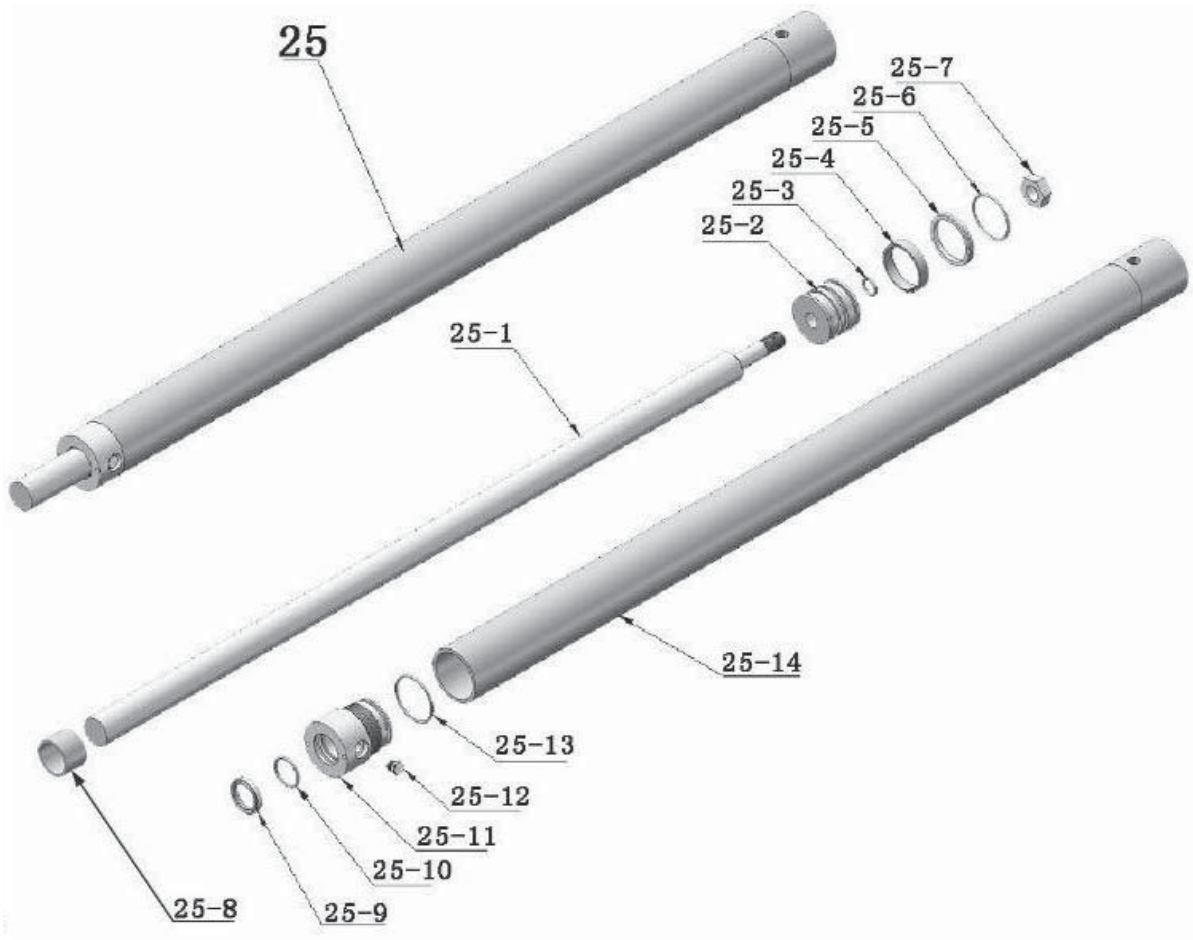


Fig. 28

Illustration of hydraulic valve for Atlas hydraulic power unit

Atlas manual power unit, 220V/60HZ, Single phase (See Fig.29)

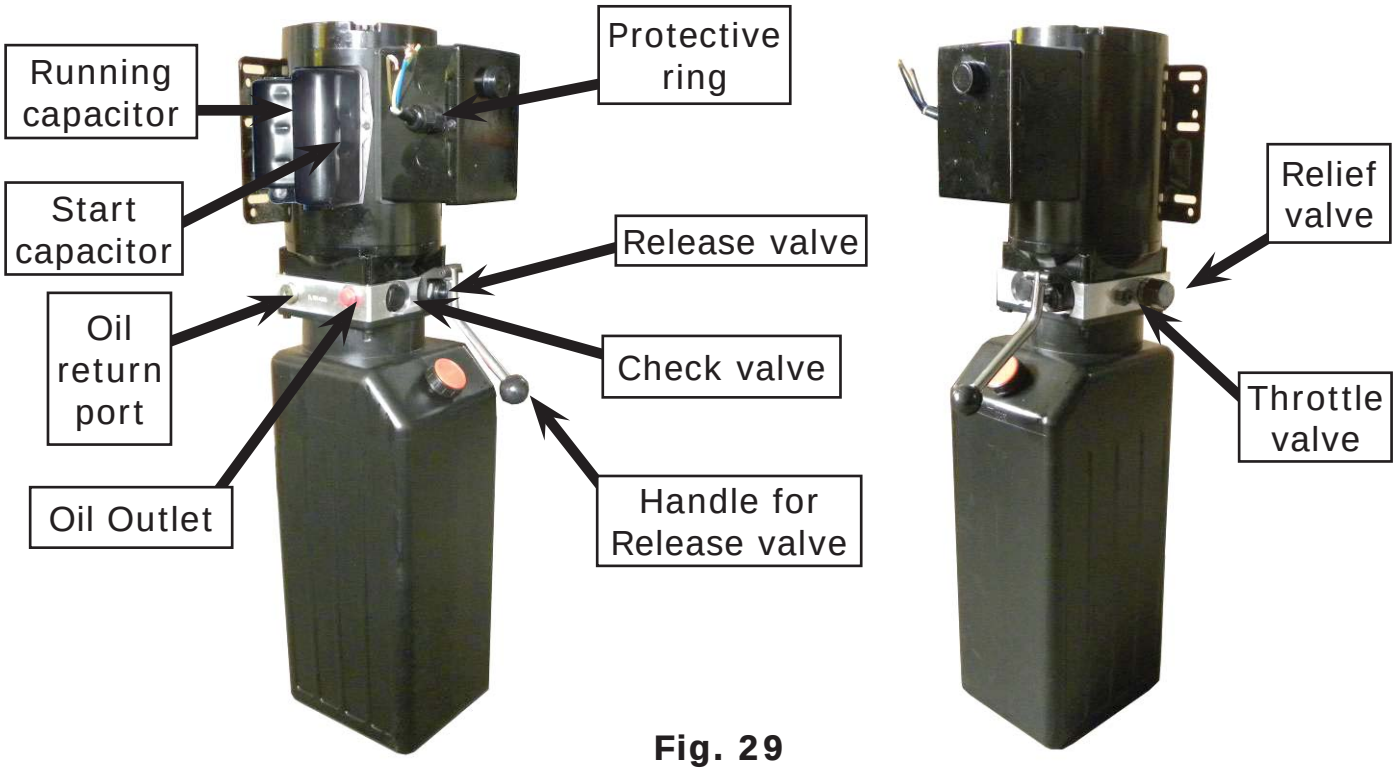


Fig. 29

Atlas Manual Power Unit

220V/60HZ/1Phase

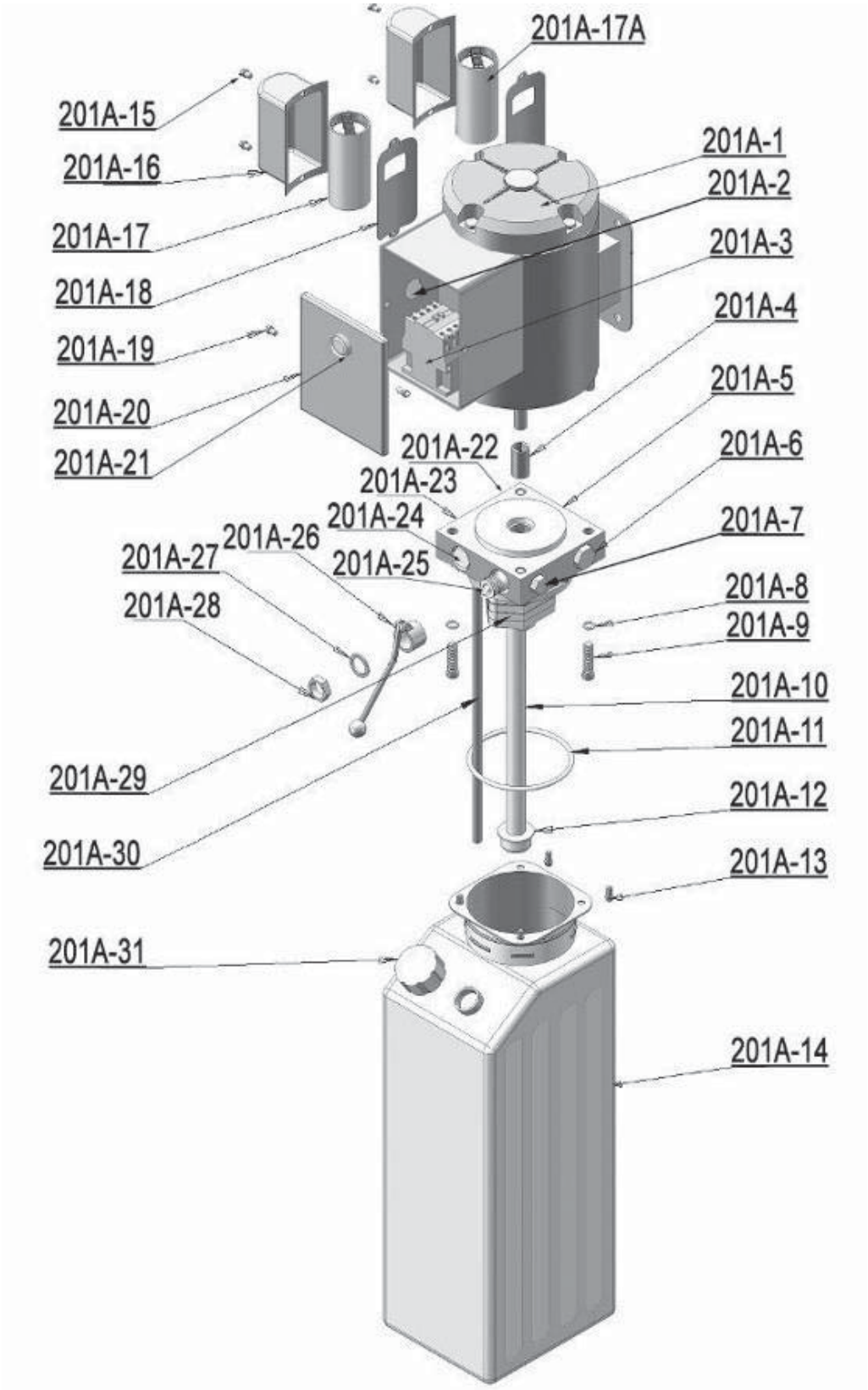


Fig. 30

Test Run

1. **Adjust the equalizing cables (See Fig. 31)**

Use wrench to hold the cable fitting, meanwhile use a ratchet to tighten the cable nut. Make sure the cables have the same tension so the two carriages lift at the same time. Replace the covers on the carriages.

If the carriages do not lift at the same time, tighten the cable nut on the lower of the two carriages.

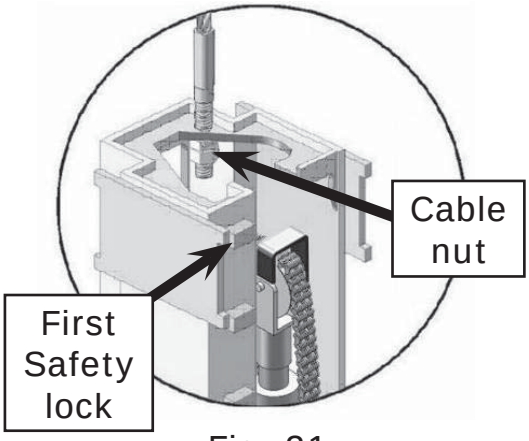


Fig. 31

2. **Adjust safety cable**

Lift the carriages and lock at the same height, pull the safety cable and then release a little, and then tighten the cable nuts. Make sure the safety locks click at the same time.

3. **Adjust the lower speed (Only for ATLAS power unit) (See Figure 32)**

You can adjust the lowering speed of the lift if necessary: 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 lower speed adjustment has been completed.

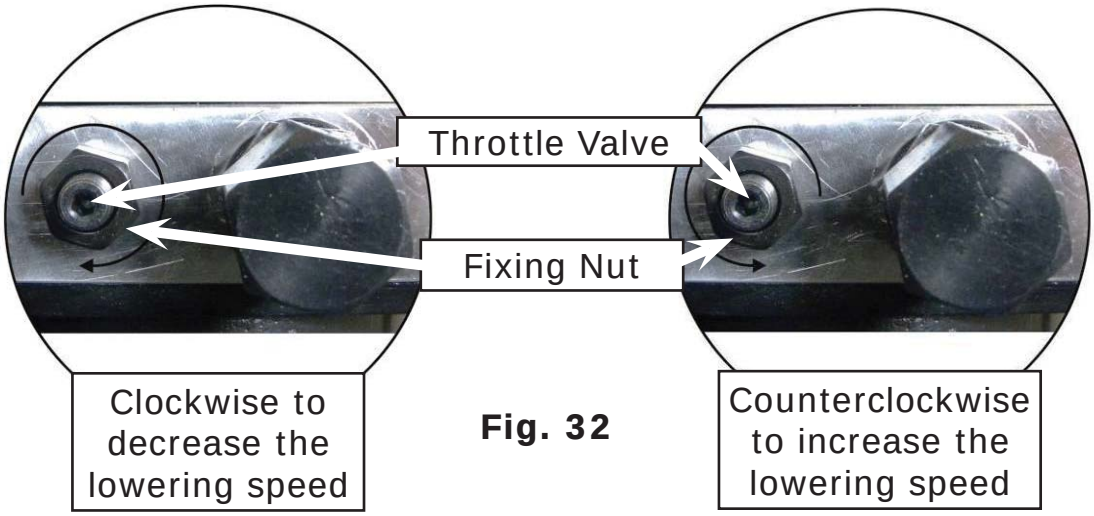


Fig. 32

4. **Test with load**

After finishing the above adjustments, test run the lift with load. Run the lift in low position for several times first. Make sure the lift can raise and lower at the same time so the Safety Device can lock and release. Test run the lift to the top completely. The above adjustments may need to be repeated.

NOTE: If the lift vibrates on the way up with a load, lubricate all pulley shafts and wear blocks.

If the lift vibrates on the way down, the cylinders need to run all of the way up and down to evacuate any residual air.

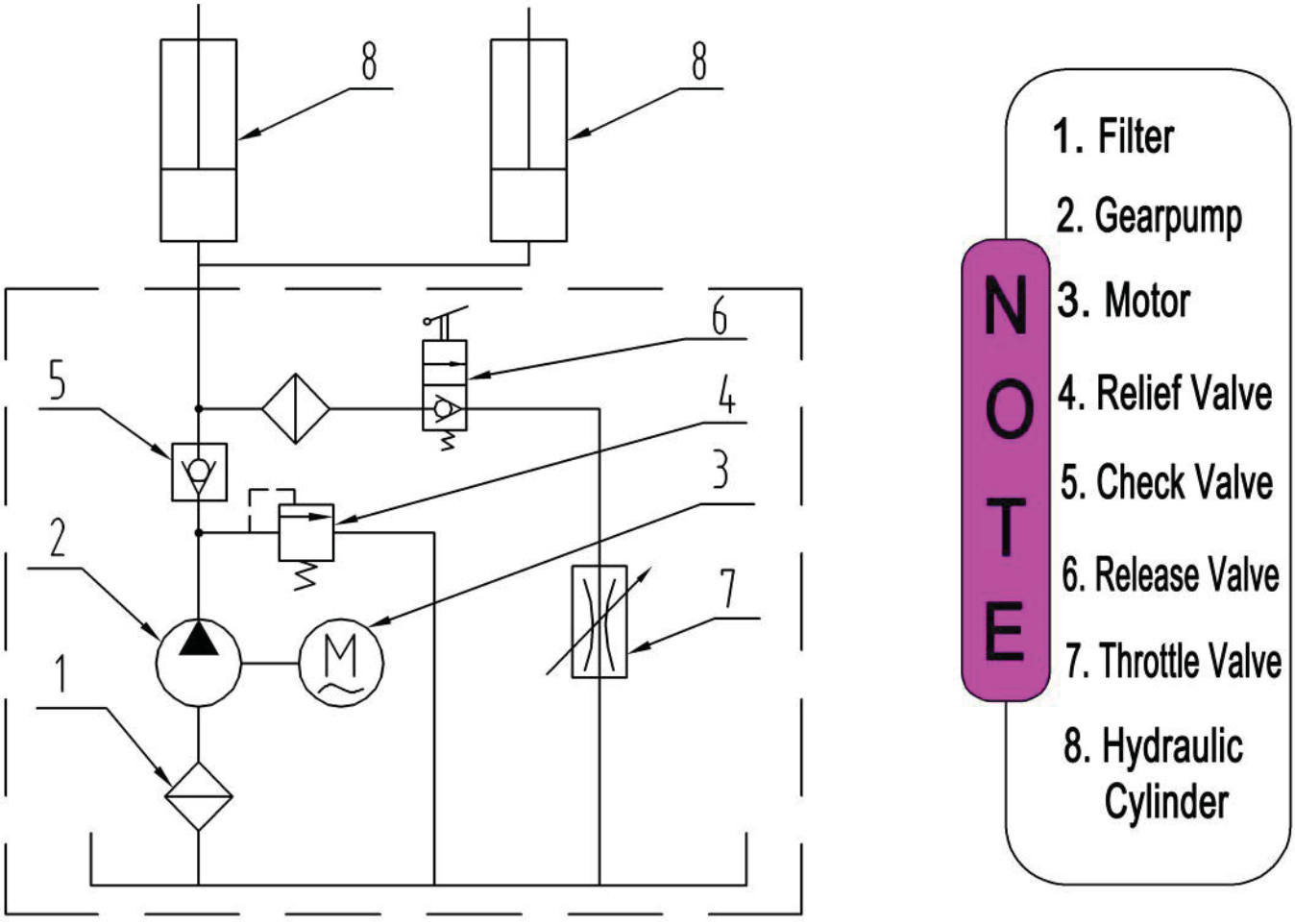


Figure 33 - Hydraulic System

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	1. Button does not work	1. Replace button
	2. Wiring connections are not in good condition	2.Repair all wiring connections
	3. Motor burned out	3. Repair or replace motor
	4. AC contactor in damage	4. Replace or replace
Motor runs but the lift is not raised	1. Motor runs in reverse rotation	1.Reverse two power wire
	2. Gear pump out of operation	2.Repair or replace
	3. Release valve in damage	3. Repair or replace
	4. Relief valve or check valve in damage	4.Repair or replace
	5. Low oil level	5.Fill tank
Lift does not stay up	1. Release valve out of work	Repair or replace
	2. Relief valve or check Valve leakage	
	3. Cylinder or fttings leaks	
Lift raises slowly	1. Oil line is jammed	1. Clean the oil line
	2. Motor running on low voltage	2. Check electrical system
	3. Oil mixed with air	3. Fill tank
	4. Gear Pump leaks	4. Replace pump
	5. Overload lifting	5. Check load
Lift can not lower	1. Safety device are locking.	1. Release the safeties
	2. Release valve in damage	2. Repair or replace
	3. Safety cable broken	3. Replace
	4. Oil system is jammed	4. Clean the oil system

BP10000 Parts List

Item	Part#	Description	Qty.	Note
1	203072	Power side column	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	
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	12	
17	203076	Floor Cover	1	
18	217114A	Rubber Pad Assembly	4	
18A	420138	Socket bolt	4	
18B	209134	Rubber Pad	4	
18C	680030B	Rubber Pad Frame	4	
19	209039	Lock Washer	14	
20	209038	Hex Bolt	6	
21	209057	Small Pulley	4	
22	209056	Self locking nut	2	

Item	Part#	Description	Qty.	Note
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	
29	201005	Split Pin	2	
30	201004	Chain Pulley Assembly	2	
31	203074	Powerside Carriage	1	
32	206044	Slider	16	
33	209016	Carriage Plastic Cover	2	
34	206045	Protective Rubber	2	
35	206046	Self-tapping Screw	4	
36	209020	Plastic Ball	4	
37	209021	Hex Nut	8	
38	209022	Washer	10	
39	209023A	Arm lock	4	
40	201041	Limit Ring	4	
41	209024	Arm Lock Bar	4	
42	209025	Hair Pin	4	
43	209026	Spring	4	
44	209027	Protective Rubber Set	4	
45	209029A	Lifting Arm - Front Right	1	
45A	209137	Outer Arm - Front Right	1	
45B	206088	Middle Arm - Front Right	1	
45C	206089A	Inner Arm - Front Right	1	
46	209036A	Lifting Arm - Front Left	1	
46A	209138	Outer Arm - Front Left	1	
46B	206093	Middle Arm - Front Left	1	

Item	Part#	Description	Qty.	Note
46C	206089A	Inner Arm - Front Left	1	
47	209037A	Lifting Arm - Rear Left	1	
47A	209139	Outer Arm - Rear Left	1	
47B	209140A	Inner Arm - Rear Left	1	
48	203075	Offside Carriage	1	
49	209028A	Lifting Arm - Rear Right	1	
49A	209135	Outer Arm - Rear Right	1	
49B	209136B	Inner Arm - Rear Right	1	
50	209035	Moon Gear	4	
51	209033	Washer	20	
52	209034	Lock Washer	12	
53	209032	Socket Bolt	12	
54	209030	Arm Pin	4	
55	203009	Connecting Bar	2	
56	209043	Hex Bolt	8	
57	209046	Hex Bolt	4	
58	203077	Top plate	2	
59	209045	Big Pulley	2	
60	209057A	Bronze Bush For Pulley	6	
61	203073	Offside column	1	
62	209049	Plastic Pulley	3	
63	203012	Offside Safety Lock	1	
64	203013	Coupling	2	
65	203014	Safety Block (Secondly)	1	
66	203018	Socket Bolt	4	
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	

Item	Part#	Description	Qty.	Note
71	209059	Anchor bolt	12	
72	620065	Shim	10	
73	209069	Cable	2	
74	209066	Cable Nut	4	
75	201022	T-Fitting	1	
76	203070	Oil Hose	1	
77	201020	900 Fitting	1	
78	201021	Oil Hose	1	
79	209060	900 Fitting for Power Unit	1	
80	203071	Safety Cable	1	
81	203502	Parts Box	1	
Parts For Hydraulic Cylinder				
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	

Parts For Atlas Manual Power Unit 220V/60HZ/1Phase				
Item	**Part#**	**Description**	**Qty.**	**Note**
201A-1	209082A	Motor	1	
201A-2	209109	Protective Ring	1	
201A-3	209112	AC contactor	1	
201A-4	209083A	Motor Connecting Shaft	1	
201A-5	209084A	Valve Body	1	
201A-6	209085A	Relief Valve	1	
201A-7	209113	Throttle valve	1	
201A-8	209086A	Lock Washer	4	
201A-9	209087A	Socket Bolt	4	
201A-10	209088A	Inlet Pipe	1	
201A-11	209089A	O-Ring	1	
201A-12	209090A	Filter	1	
201A-13	209091A	Socket bolt	4	
201A-14	209092A	Reservoir (10 liter)	1	
201A-15	209093A	Cup Head Bolt with washer	4	
201A-16	209094A	Cover of Capacitor	2	
201A-17	209095A	Start Capacitor	1	
201A-17A	209095B	Run Capacitor	1	
201A-18	209096A	Rubber Gasket	2	
201A-19	209097A	Cup Head Bolt with washer	2	
201A-20	209098A	Cover of Motor Terminal Box	1	
201A-21	209099A	Push Button	1	
201A-22	209110A	Oil Return Port	1	
201A-23	209100A	Oil Outlet	1	
201A-24	209105A	Check Valve	1	
201A-25	209101A	Release Valve	1	
201A-26	209102A	Handle For Release Valve	1	
201A-27	209103A	Washer	1	
201A-28	209104A	Hex Nut	1	
201A-29	209106A	Gear Pump	1	
201A-30	209107A	Oil Return Pipe	1	
201A-31	209108A	Filler Cap	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.