

INSTALLATION & OPERATION MANUAL



Atlas EM06 6,000 lb. Capacity Mid Rise Scissor 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

- Electric/Hydraulic power system
- Mechanical safety locks release, no need of air source
- 2-Dual cylinders are applied to assure lifting smoothly
- Portable design
- Movable drive – thru ramps and extended platforms accommodate varying wheelbase vehicles
- Skid proof diamond runway



Model	Lifting Capacity	Lifting Time	Raised Height	Lowered Height	Overall Width	Runway Width	Runway Length	Overall Length with Ramps	Gross Weight	Motor
EM06	2.8T 6,000 lbs	21S	41 3/4"	4 1/8"	80 3/8"	23 5/8"	57 1/2"	83 7/8"	1000 lbs	30.HP

Fig. 1

Installation Requirement

Tools Requirement

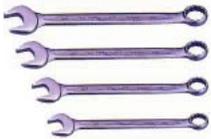
Screw Set 	English Spanner (12") 
Grease Gun 	Hook Spanner (40~42mm) 
Wrench sets (13#, 15#, 17#, 19#) 	Pliers 

Fig. 2

Concrete Specifications

Failure to follow concrete specifications may result in personal injury and the lift or vehicle falling.

1. Concrete must be a minimum of 4 inches and must be cured before lift installation.
2. Concrete must be in good condition and must have a test strength 3,500psi (250kg/cm²) minimum.
3. Floors must be level and no cracks.

Power Supply

The power unit must be 1.5 horsepower minimum. Electrical supply must consist of a 30AMP breaker minimum. Power supply comes with a 110 volt cord.

Steps Of Installation

A. Location Of Installation

Check and insure the installation location (concrete, layout, space size etc.) is suitable for lift installation (See Fig. 3).

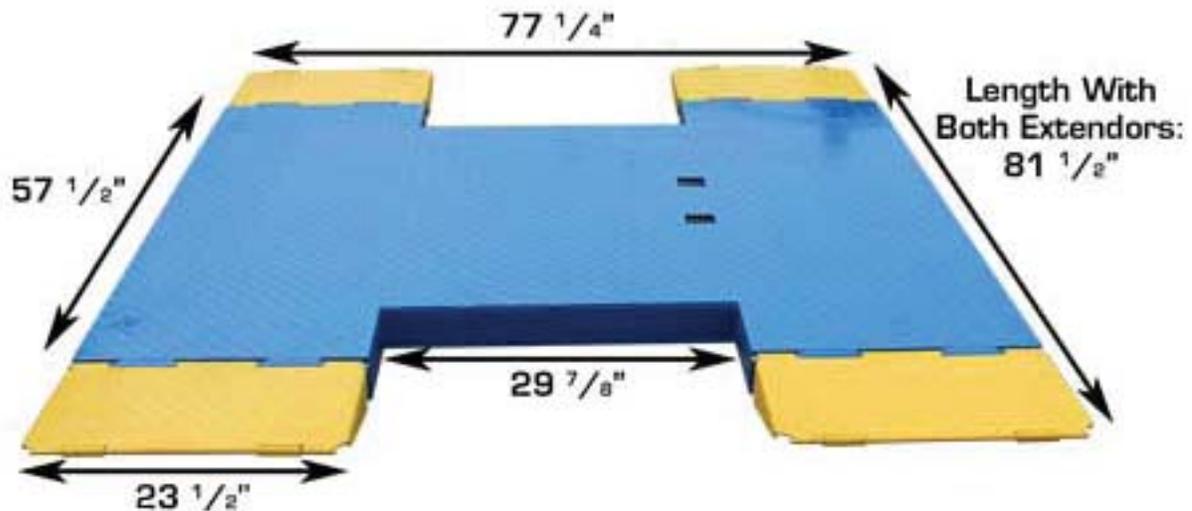


Fig. 3

B. Check The Parts Before Assembly, And Make Sure All The Parts Are Completed

1. Packaged lift, Parts box, Power unit and Power unit stand. Move the parts aside, open the outer packing and check the parts according to the shipment parts list (See Fig. 4).



Fig. 4

2. Open the parts box, check the parts according to the part list (See Fig. 5).



Fig. 5

3. Open the parts bag, check the parts according to the part list (See Fig. 6).



Fig. 6

C. Install Power Unit And Pressure Compensation Valve (See Fig. 7).

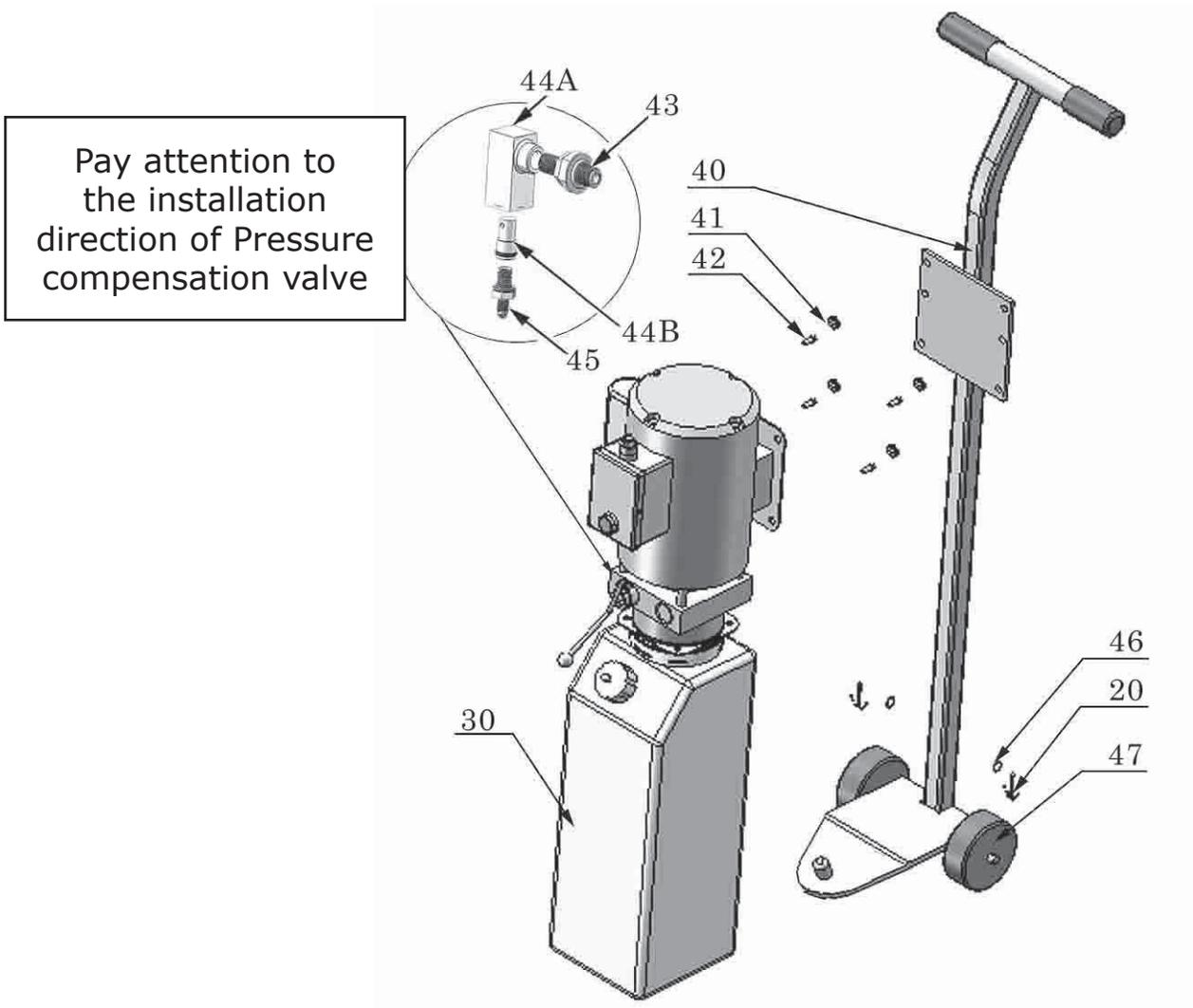


Fig. 7

D. Connecting Oil Hoses (See Fig. 8).

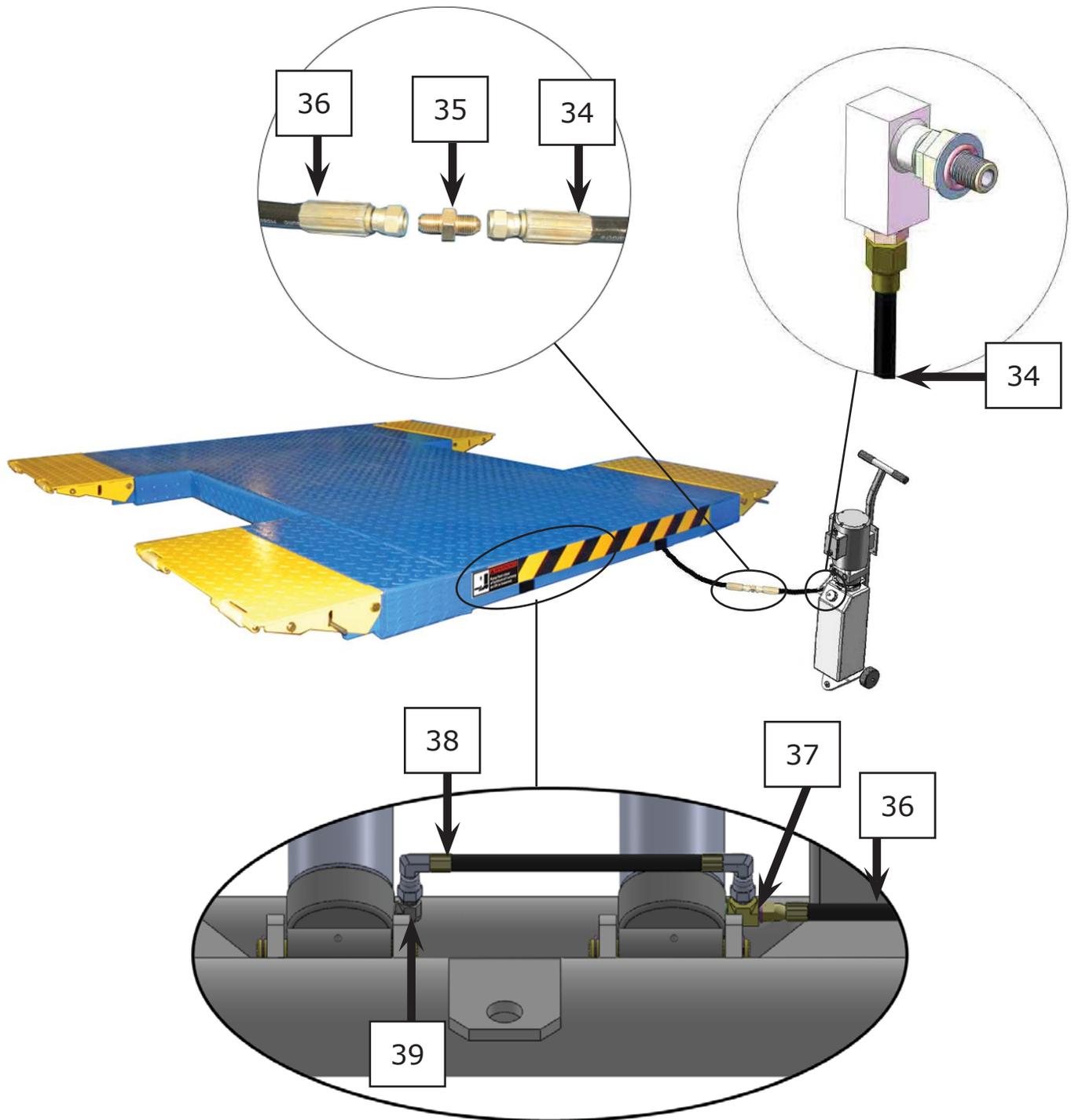


Fig. 8

E. Install Electrical System

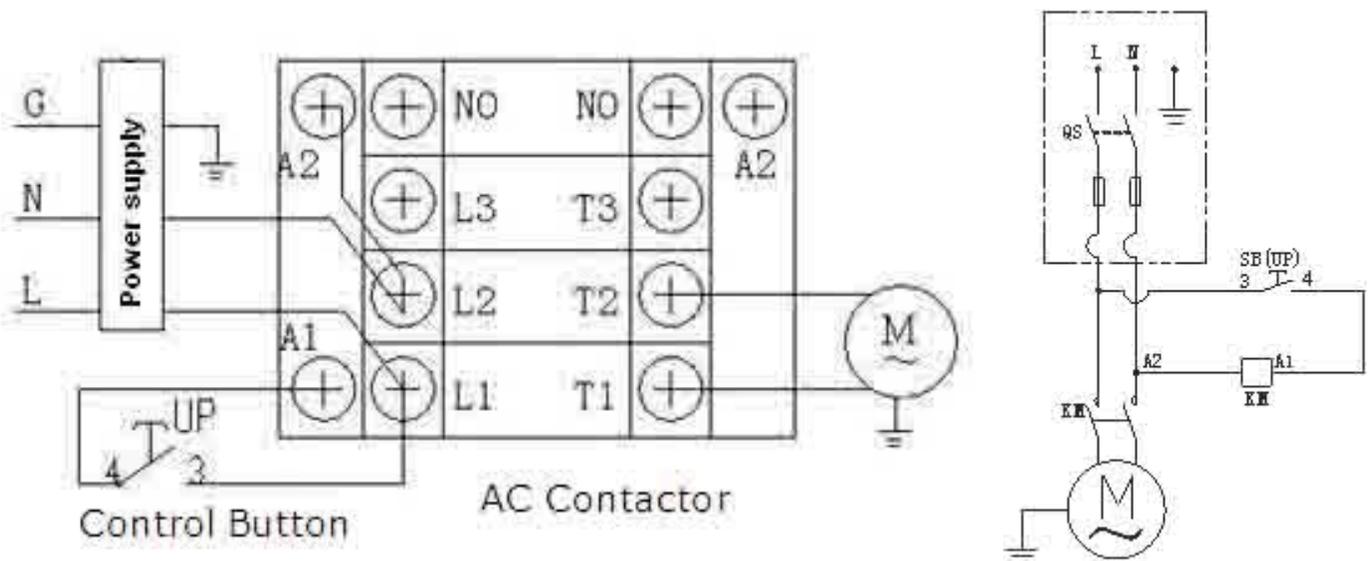
Connect the power source on the data plate of power unit.

Note:

1. For the safety of operators, the power wiring must contact the floor well.
2. Pay attention to the direction of rotations when using three phases motors.

Atlas Single Phase Motor (Fig. 9)

1. Connecting the two power supply lines (fire wire **L** and zero wire **N**) to terminals of AC contactor marked **L1**, **L2** respectively.
2. Connecting the two motor wires to terminals of AC contactor marked **T1**, **T2**.
3. Connecting **L2** to **A2** of AC contactor.
4. Connecting two wires of control button to A.C. contactor terminals marked **A1**, **L1**.



Electric diagram

Fig. 9

Exploded View

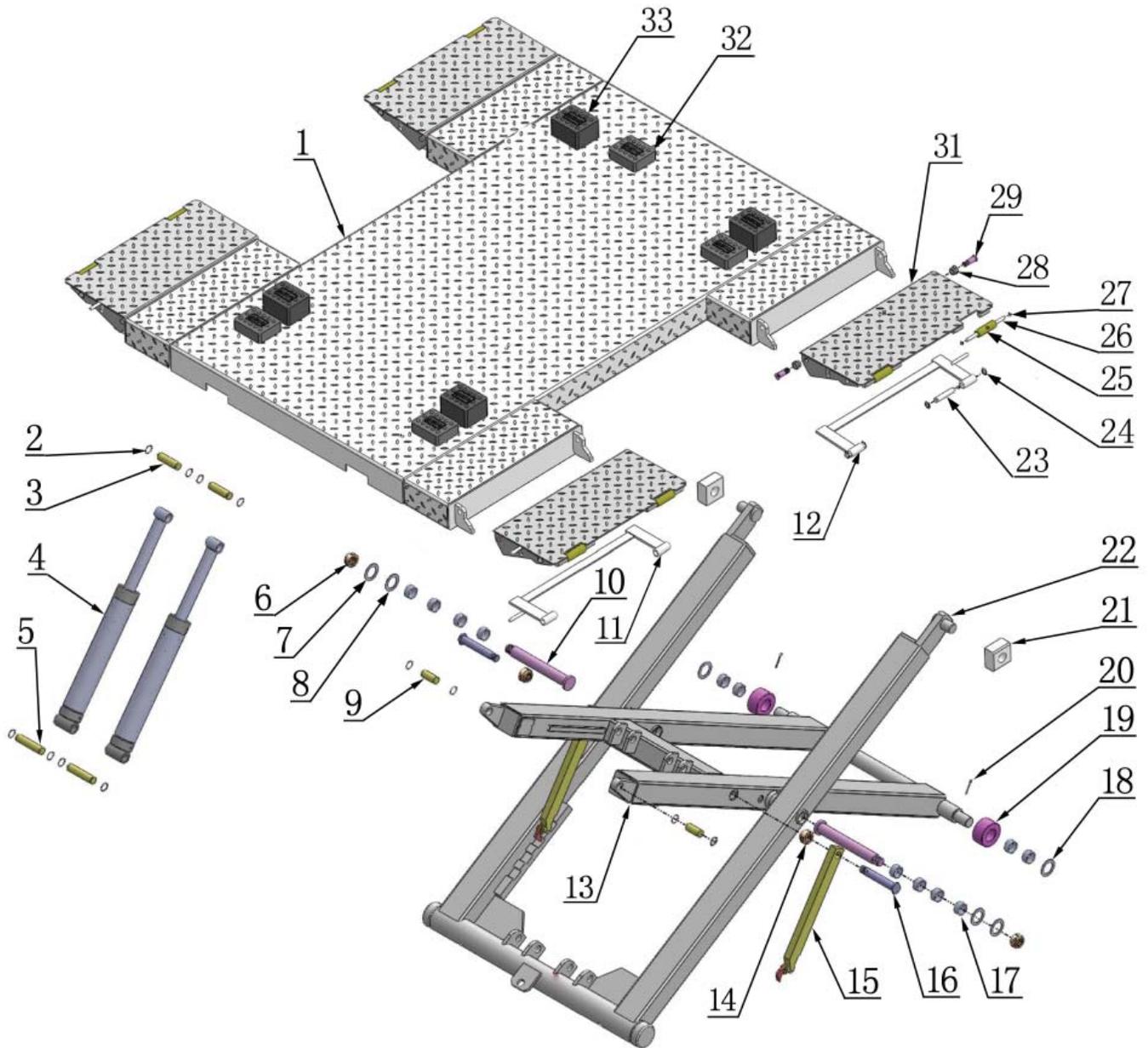


Fig. 10

Cylinder

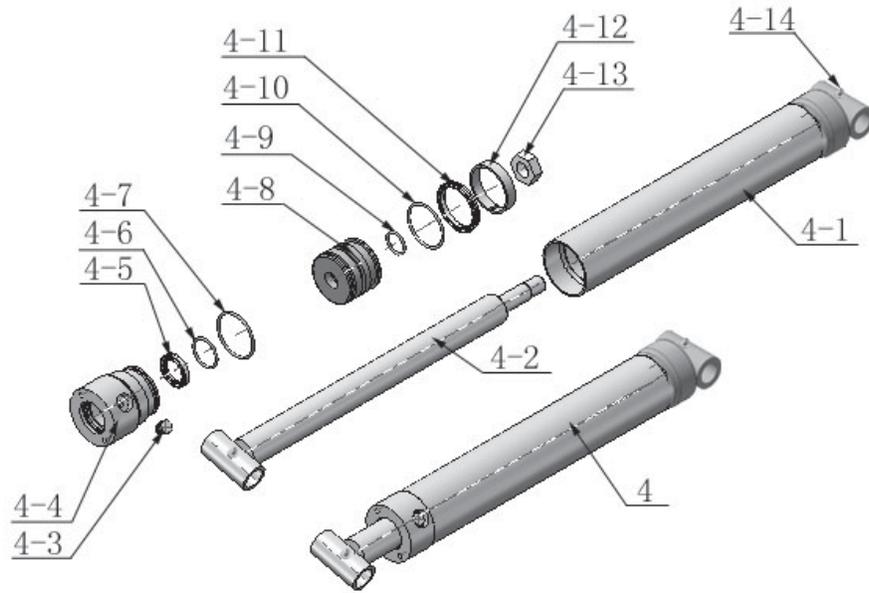
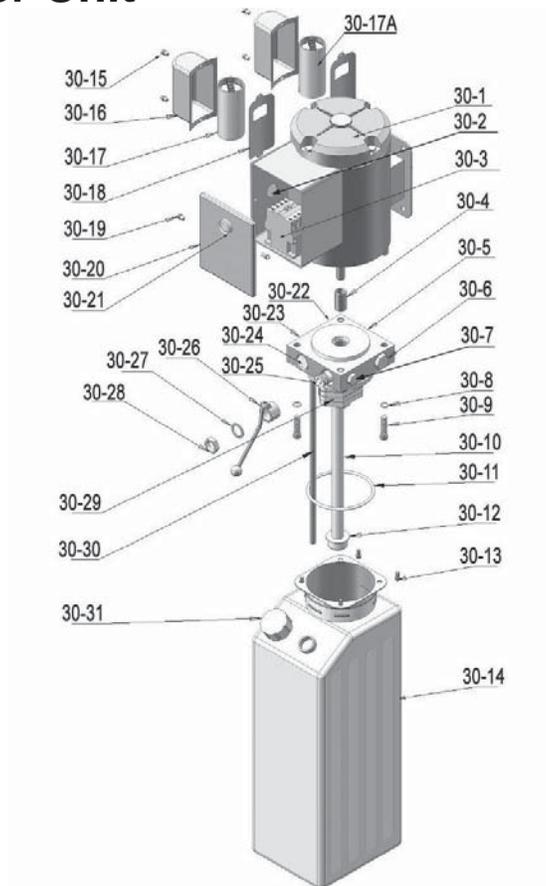


Fig. 11

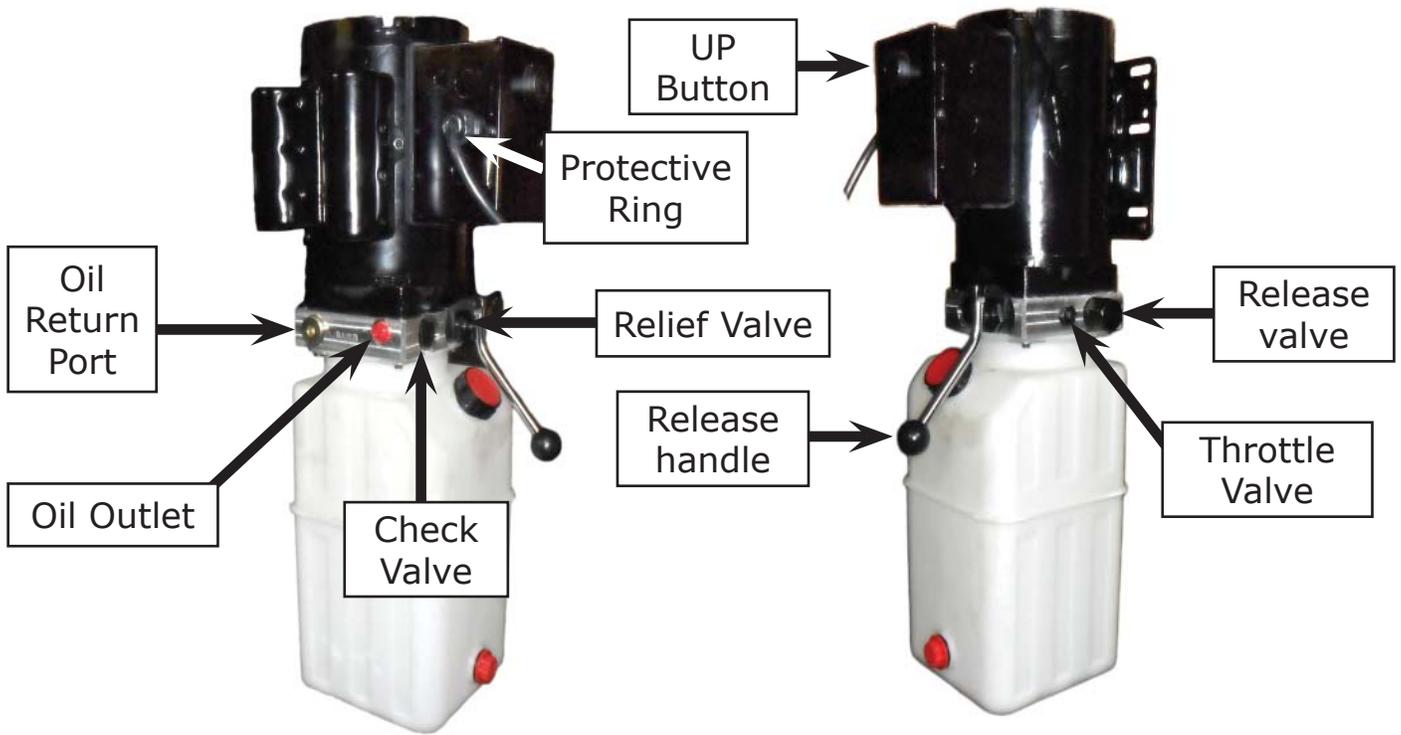
Atlas Manual Power Unit



110V/60HZ Single Phase

Fig. 12

Illustration Of Hydraulic Valve For Atlas Manual Power Unit



110V/60HZ/1 phase

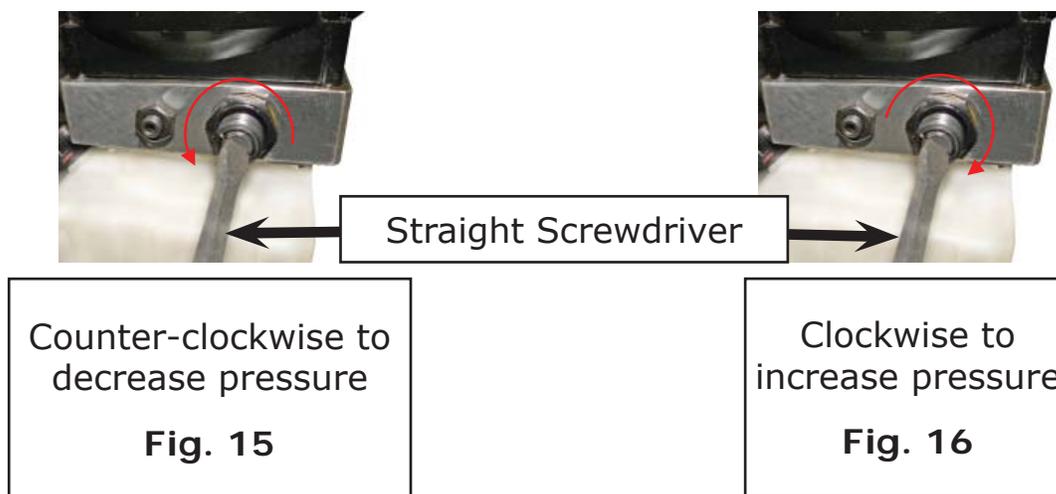
Fig. 13

Operation Instructions

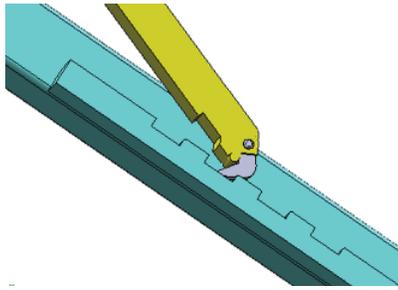
1. Install the oil hose between oil cylinder and power unit, connect the power source wire.
2. Rated pressure adjustment for power unit: unscrew the outer nut of relief valve with a #27 wrench (**see Fig. 14**), and adjust the pressure to 25Mpa with a straight screwdriver. Turn clockwise to increase pressure, turn counter-clockwise to reduce pressure. Make 1/4 turn each time during adjusting, then re-install the outer nut of relief valve.



Fig. 14

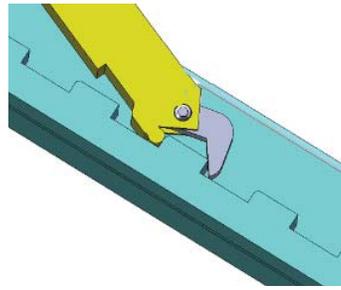


3. To raise the lift: Drive the vehicle on to the platform, select the suitable rubber pad. Press the UP button till the lift is raised to the required height and the locks are in engaged status (**See Fig. 17**),
4. To lower the lift: Press the button UP, until the safety lock is in the released position (**See Fig. 18**), lower lift by pushing lowering handle.



Safety Device in
Lock position

Fig. 17



Safety Device in
release position

Fig. 18

5. Move the lift: Raise or lower the lift from 8" to the ground, use power unit stand to move (**See Fig. 19**).

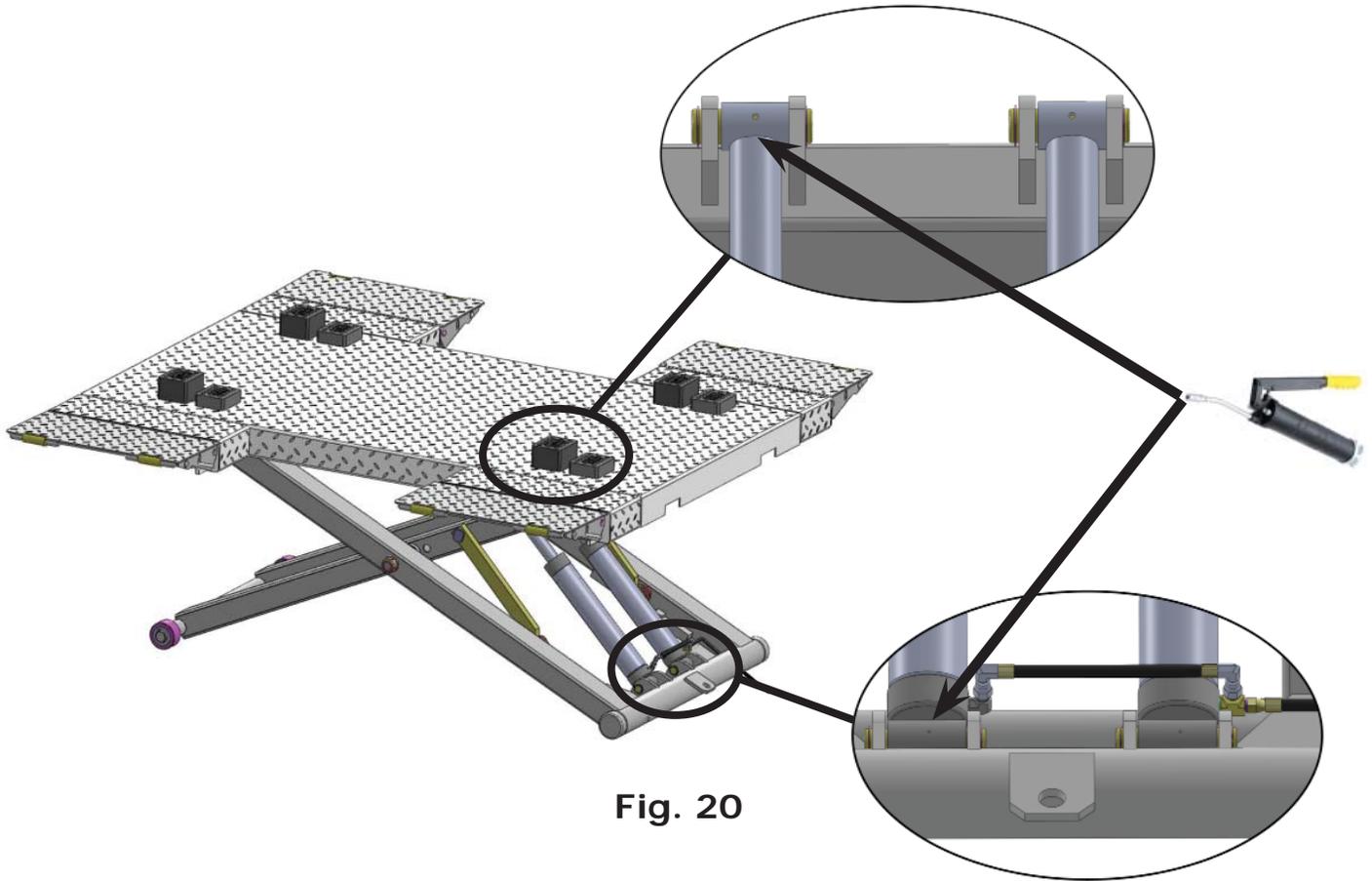


Fig. 19

Maintenance Schedule

Monthly

1. Lubricate all moving parts with lubricant (See Fig. 20)



2. Check all connectors, bolts and pins to make sure good connection.
3. Make a visual inspection of all hydraulic tube for wear and oil leak.

Every six months

1. Make a visual inspection of all moving parts for possible wear, interference or damage.
2. Check all fastener and re-torque.

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. Safety 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 Safety Switch 5. Replace AC Contactor
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 6. Overload lifting or low pressure 	<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 6. Check load or adjust the pressure
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. Repair or replace 5. Check load
Lift can not lower	<ol style="list-style-type: none"> 1. Safety device are in activated 2. Release Valve in damage 3. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release the safeties 2. Repair or replace 3. Clean the oil system

Parts List

Item	Part#	Description	QTY.
(See Fig. 10, Fig. 4, Fig. 7-8)			
1	650001	Platform	1
2	206032	Snap Ring	8
3	640006	Connecting Shaft for Cylinder	2
4	640007	Cylinder	2
5	640006A	Cylinder Base Pin	2
6	610019	Nylok Nut	2
7	610108	Washer	2
8	530023	Washer	2
9	650003	Upper Scissors Pin	2
10	650018	Scissors Pin	2
11	620130	Supper frame(right)	2
12	620129	Supper frame(left)	2
13	640016	Inner scissors	1
14	620022	Washer	2
15	640010	Safety support assy	2
16	640056	Safety Pin	2
17	420132A	Bronze Brush	12
18	420023A	Washer	2
19	640022	Roller	2
20	201005	Split Pin	2
21	610003A	Slider	2
22	640017A	Outer Scissor	1
23	620123	Bracket Shaft	8
24	420037	Snap Ring	16
25	620063	Roller for drive in ramp	8
26	620043	Roller shaft for drive in ramp	8
27	209010	Snap Ring	16
28	650024	Nylok Nut	8
29	620124	Pin for Drive-in Ramp	8
30	640020	Power unit	1
31	620128	Drive-in Ramp	4
32	620034	Rubber Pad	4
33	610070	Rubber Pad	4
34	630101A	Oil hose	1

Item	Part#	Description	QTY.
35	620079	Straight Fitting	1
36	640107	Oil Hose	1
37	209062	T-fitting	1
38	650019	Oil Hose	1
39	420097	90° fitting	1
40	640021	Wheel dolly	1
41	209005	Nylok nut	4
42	209003	Hex bolt	4
43	440009	Straight fitting	1
44A	720069	Two way valve assembly	1
44B	209119	Pressure Compensation Valve	
45	510023	Straight fitting	1
46	206006	Washer	2
47	640023	Plastic wheel	2
41	650501	Parts Box	1

Parts For Cylinder (See Fig. 11)

Item	Part#	Description	QTY.
4-1	640030A	Bore Weldment	2
4-2	640031	Piston Rod	2
4-3	201034	Bleeding Plug	2
4-4	201033	Head cap	2
4-5	209078	Dust ring	2
4-6	201032	O - Ring	2
4-7	201035	O - Ring	2
4-8	201028	Piston	2
4-9	206069	O-Ring	2
4-10	201031	O-Ring	2
4-11	201030	Y-Ring	2
4-12	201029	Support Ring	2
4-13	206071	Nut	2
4-14	620064	Greasing Fitting	4

Atlas Manual Power Unit 110V/60HZ/1 Phase (See Fig. 12)

Item	Part#	Description	QTY.
30-1	209119A	Motor	1
30-2	209109	Protective Ring	1
30-3	209112	AC contactor	1
30-4	209083A	Motor Connecting Shaft	1
30-5	209084A	Valve Body	1
30-6	209085A	Relief Valve	1
30-7	209113	Throttle Valve	1
30-8	209086A	Lock Washer	4
30-9	209087A	Socket Bolt	4
30-10	209120A	Oil Inlet Pipe	1
30-11	209089A	O- Ring	1
30-12	209090A	Filter	1
30-13	209091A	Socket Bolt	4
30-14	209121A	Reservoir	1
30-15	209093A	Screw with Washer	4
30-16	209094A	Cover of Capacitor	2
30-17	209122A	Start Capacitor	1
30-17A	209123A	Running Capacitor	1
30-18	209096A	Rubber Gasket	2
30-19	209097A	Cup head bolt with Washer	2
30-20	209098A	Cover of Motor Terminal Box	1
30-21	209099A	Button switch	1
30-22	209110A	Oil Return Port	1
30-23	209100A	Oil Outlet	1
30-24	209105A	Check Valve	1
30-25	209101A	Release valve	1
30-26	209102A	Release valve handle	1
30-27	209103A	Washer	1
30-28	209104A	Hex bolt	1
30-29	209130A	Gear Pump	1
30-30	209125A	Oil Return Pipe	1
30-31	209108A	Filler Cap	1

Warranty



This item is warranted for two (2) years on structural components and one (1) year on air or electric hydraulic power units, pneumatic power units, cylinders and major components from date of invoice. 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.