

INSTALLATION & OPERATION MANUAL



Atlas EML-1200

1,200 lb. Capacity Electric Motorcycle Lift



Atlas Automotive Equipment
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Revision Date: 4/9/2019

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

- Hydraulic direct-drive cylinders, designed and made on ANSI standard, utilizing oil seal in cylinder
- Self-lubricating UHMW Polyethylene sliders and bronze bush
- Vise included
- Includes removable drop out section
- Removable approach ramp included
- Skid proof diamond platform
- Manual control and automatic safety release system.
- Optional: Width extension kit and platform extension kit

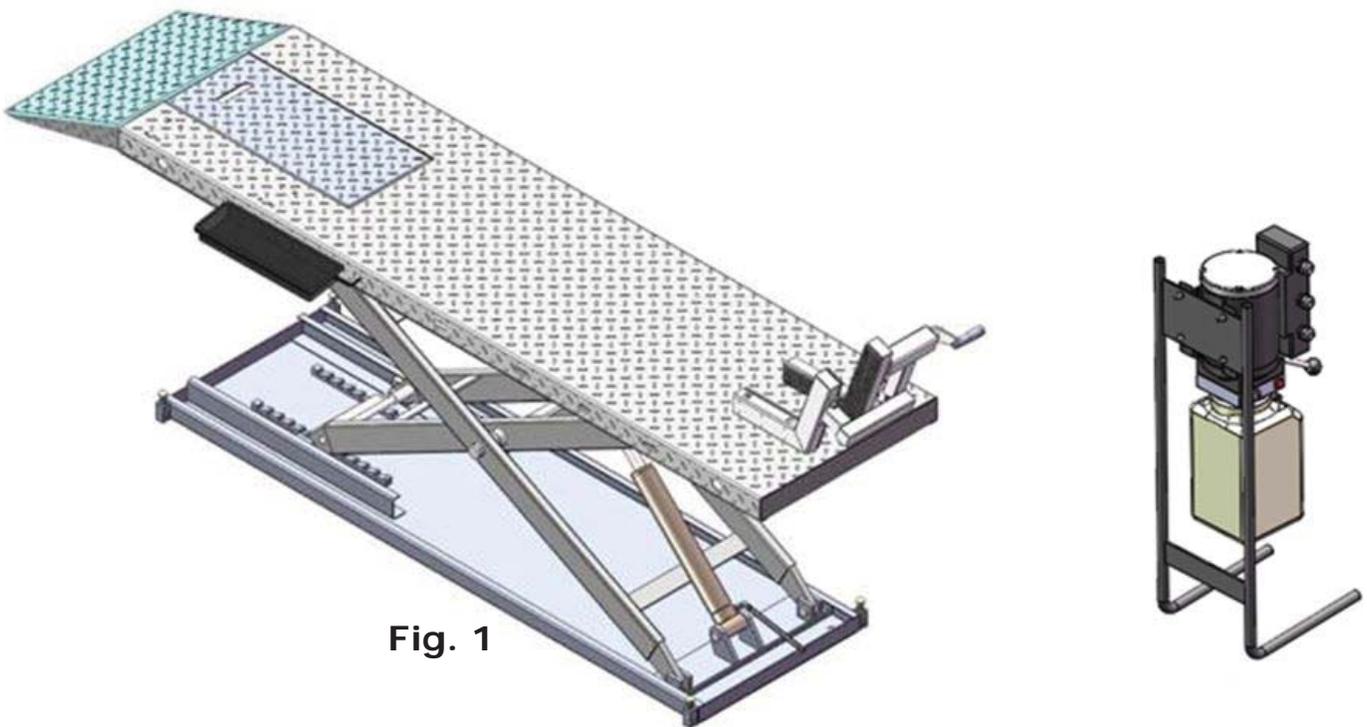


Fig. 1

Capacity	Lifting Height	Lifting Time	Overall Length	Overall Width	Minimum Height	Gross weight	Motor
1200 lbs	43"	23s	108"	29 1/2"	6 1/8"	800 lbs	1.5HP

Installation Requirement

A. Tools Required

<p>Rotary Hammer Drill ($\Phi 19$)</p> 	<p>Ratchet Spanner with Socket: (28#)</p> 
<p>Screw</p> 	<p>Grease gun</p> 
<p>English Spanner (12")</p> 	<p>Hook Spanner(40~42mm)</p> 
<p>Wrench Set: (13#, 15#, 17#, 19#)</p> 	<p>Pliers</p> 

Fig. 2

B. Specifications Of Concrete

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

1. Concrete must be 4" thickness minimum and without reinforcing steel bars, and must be dried totally before lift installation.
2. Concrete must be of test strength 3000 PSI minimum.

C. Power Supply

The power capacity must be more than 3HP (2.2kw). The source cable size must be 10 gauge (2.5mm²) and in good condition of contacting with floor.

Steps Of Installation

A. Check the parts before assembly to make sure all the parts are completed.

1. Packaged cargo (lift, drive-in ramp, Parts box, control cabinet, Clamping device). Move the parts aside, open the outer packing and check the parts according to the shipment parts list. (See Fig. 3)

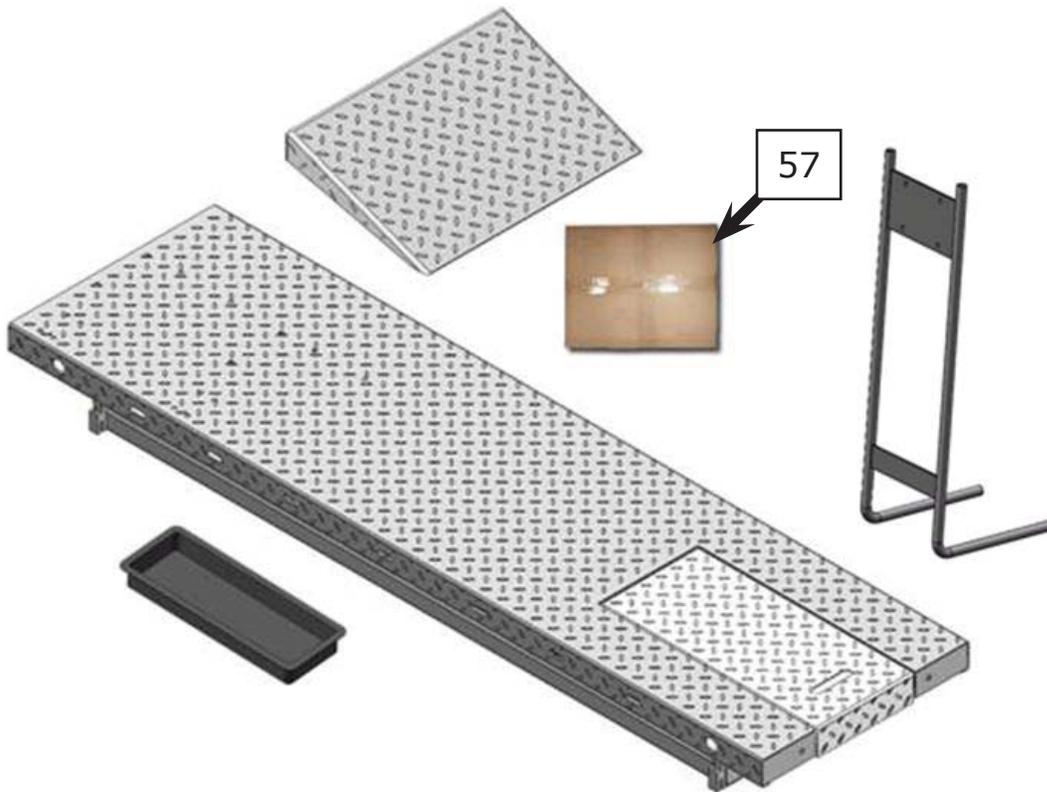


Fig. 3

2. Open the parts box, check the parts according to the parts list. (See Fig. 4)

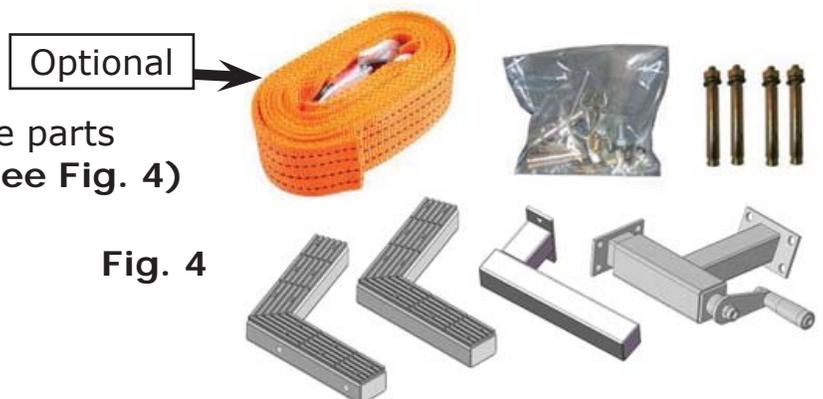


Fig. 4

3. Open the parts bag, check the parts according to the parts list. (See Fig. 5)



Fig. 5

B. Put the lift and control cabinet in good order and connect the oil hose. (See Fig. 6 & 7)

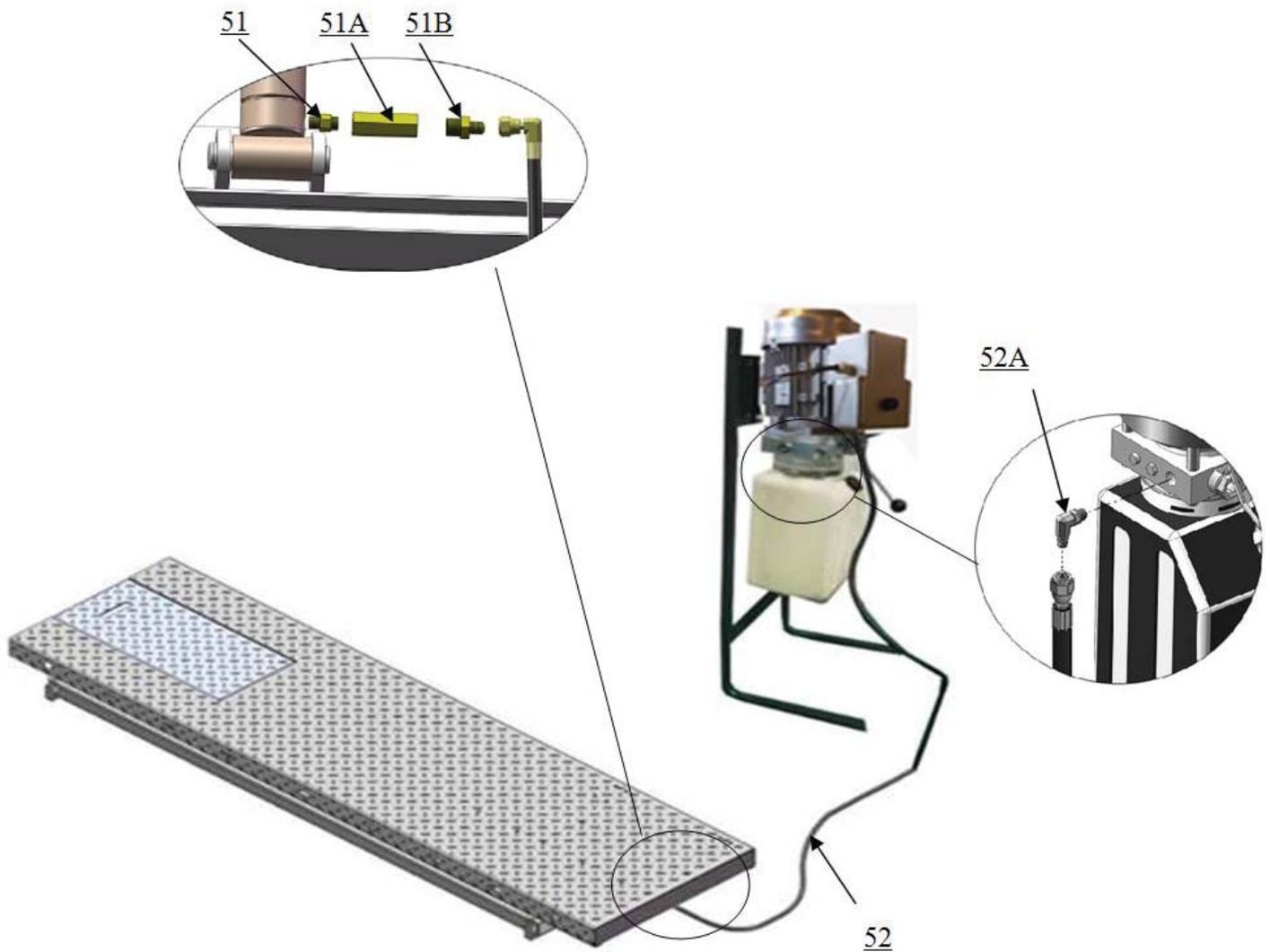


Fig. 6

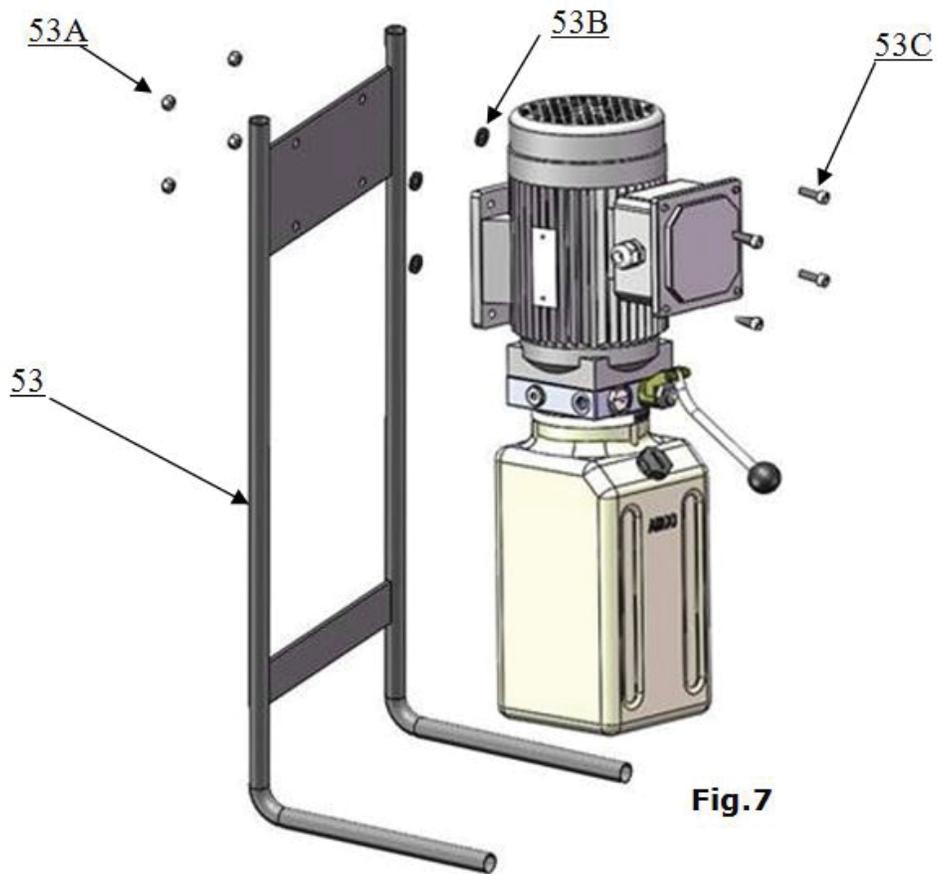


Fig.7

C. Install Electrical System.

1. Connect the wire according to the diagram. (Fig. 8)

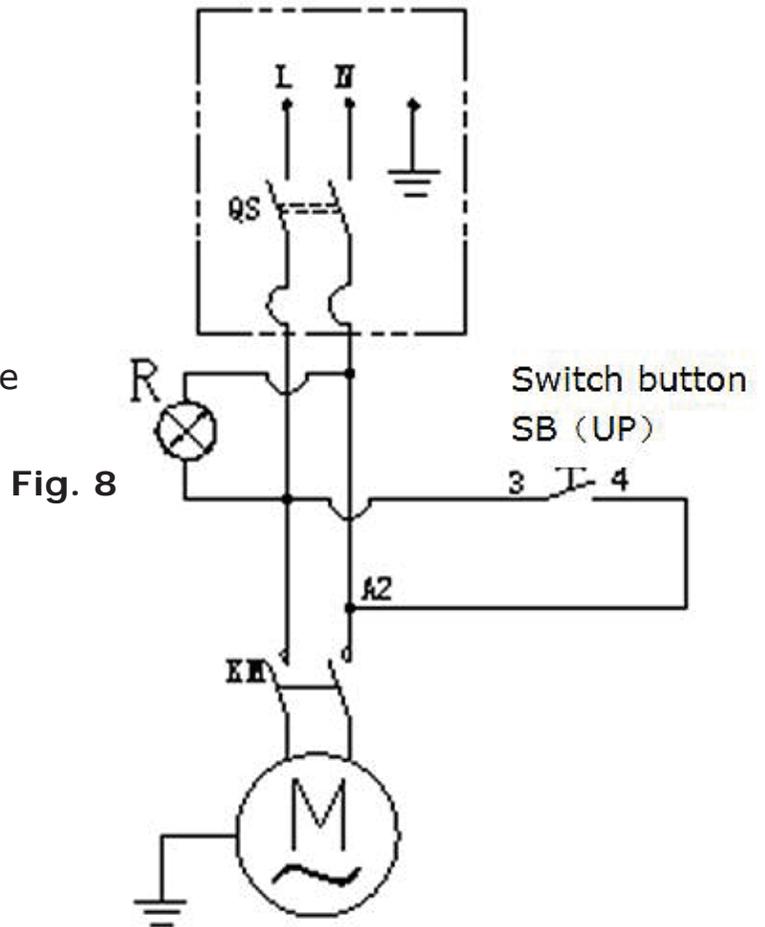


Fig. 8

D. Fastening all the oil hose fittings, fill the power unit with right amount hydraulic oil.

In order to ensure the working life of hydraulic system and the machine reach the best performance, please fill in the No. 46 high quality anti-ware hydraulic oil.

E. Install clamping device. (See Fig. 9)

1. After connecting the wire, lift the motorcycle lift to a suitable height, install the clamping device according to below photo;
2. The clamping device can be installed in different positions on the platform.

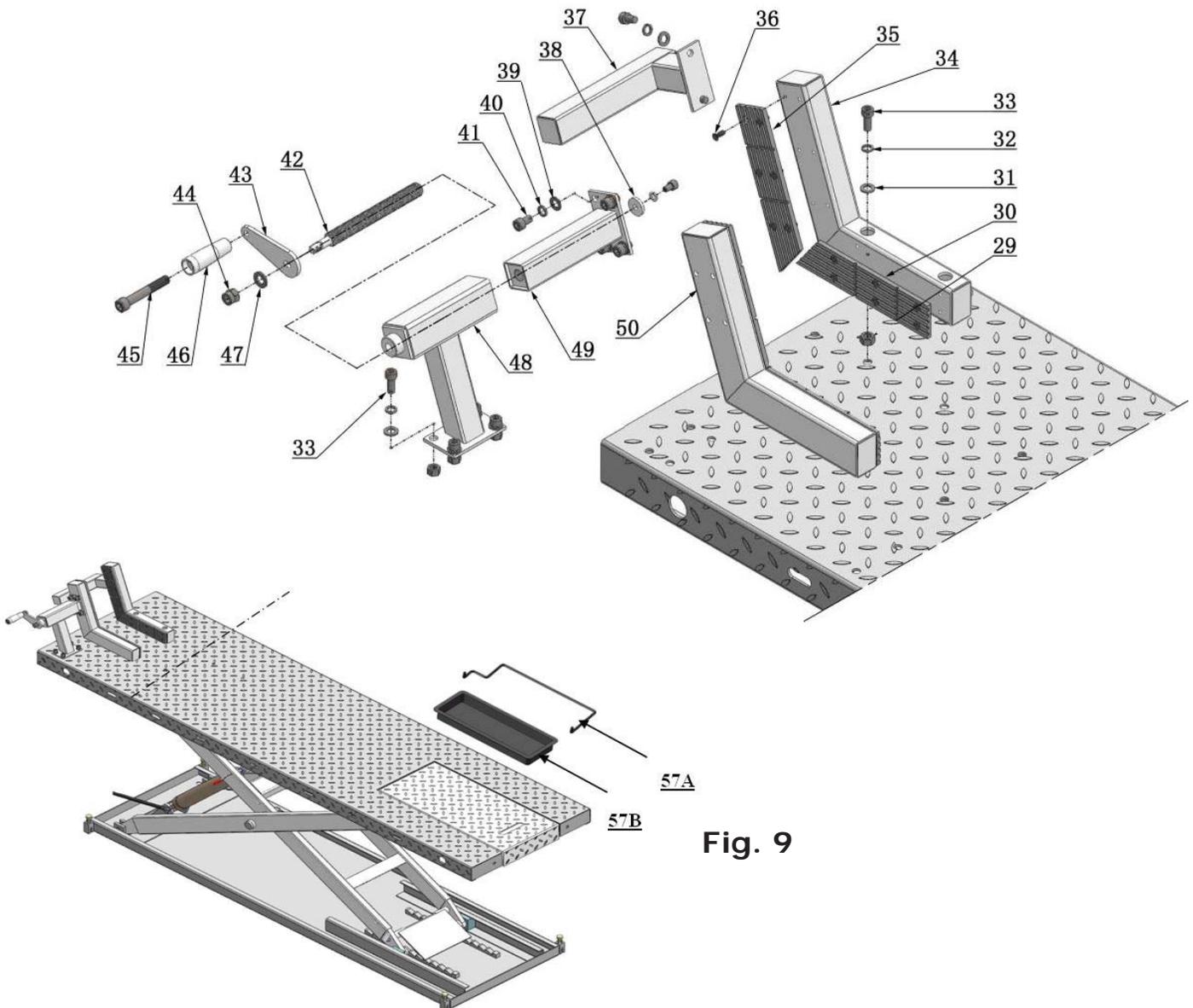


Fig. 9

F. Install optional width extension kit. (See Fig 10)

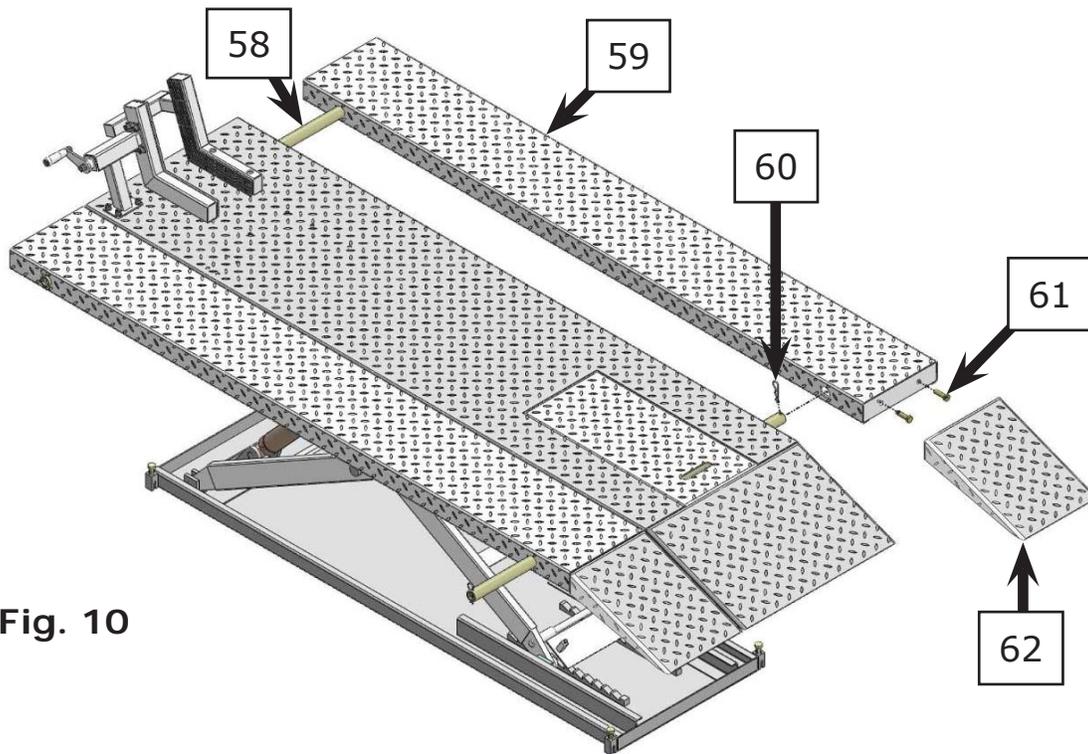


Fig. 10

G. Install optional chopper extension kit. (See Fig 11)

Note: Connect the holes on platform extension kit and the holes of clamping device on the platform. Install the clamping device on the platform extension kit.

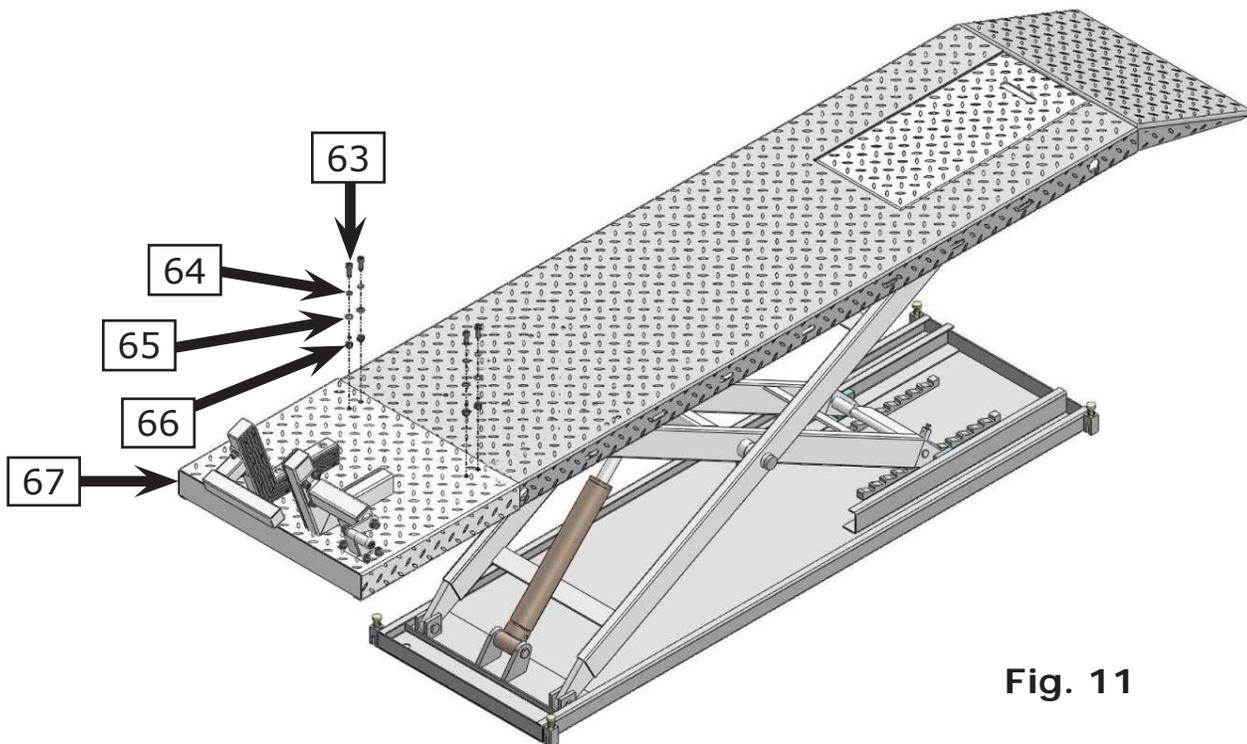


Fig. 11

Test Run

1. Install anchor bolts. (See Fig. 12)

Install the anchor bolts to fix the machine according to the below figure after installing the lift.

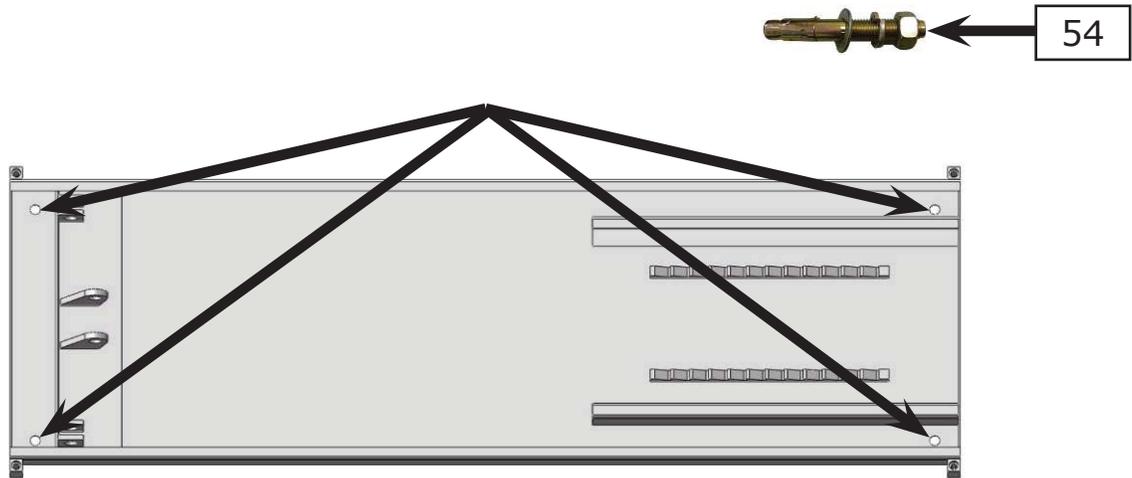
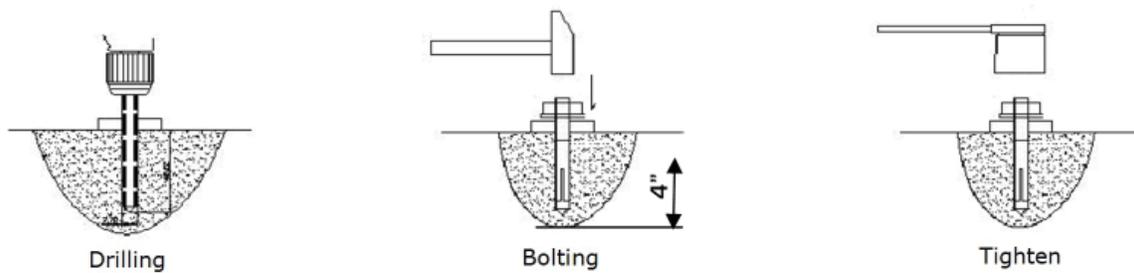


Fig. 12

Steps:

Note: Drill all the anchor holes and install anchor bolts at least 4 inches deep. Tighten the anchor bolts between 85 and 110 foot pounds.



2. Adjust safety cable

Raise the lift to the highest position (**See Fig. 13**), swing the safety handle down. Loosen the screw of the safety cable by wrench, lift up the safety lock plate from the rack about an inch (**See Fig. 14**), and tighten the safety cable.

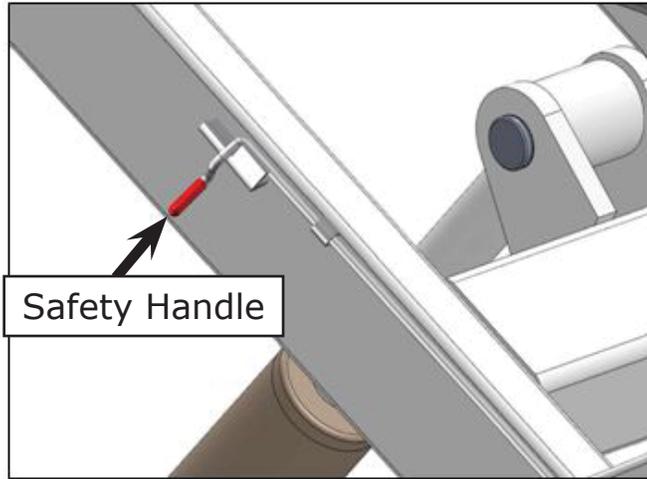


Fig. 13

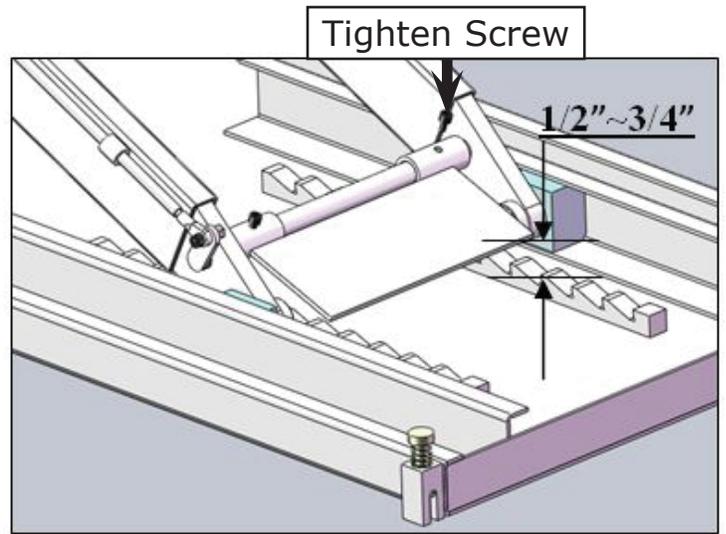


Fig. 14

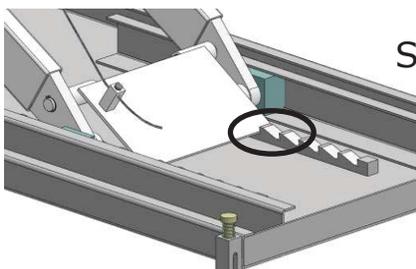
Operation Instructions

1. **Install the oil hose between cylinder and power unit, connect the wire, the motorcycle lift can be used.**
2. **Test the lift first by raising it without a vehicle.**
3. **To lift vehicle:** Lower the lift to the lowest position, loosen the clamping device. Move the motorcycle to the platform, put the wheel in the clamping device, set the motorcycle. Put up the kick stand of the vehicle. Clamp the tire by the rotated handle. Tighten the bandage. Make sure the wheel is tightened and the bandage is fixed before using. **(See Fig. 15)**



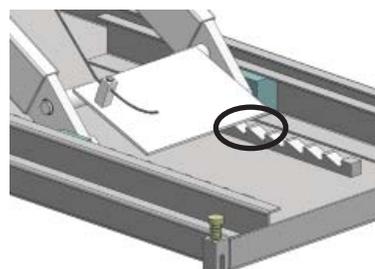
Fig. 15

4. **To lower the lift:** Raise the lift for several seconds. Put the safety operation handle in the status of Fig. 16. After the safety device is released **(See Fig. 17)**, press the release handle in the power unit, the lift would be lowered.



Safety device
is locked

Fig. 16



Safety device
is released

Fig. 17

Maintenance Schedule

Monthly maintenance:

1. Lubricate all moving parts. (See Fig. 18)

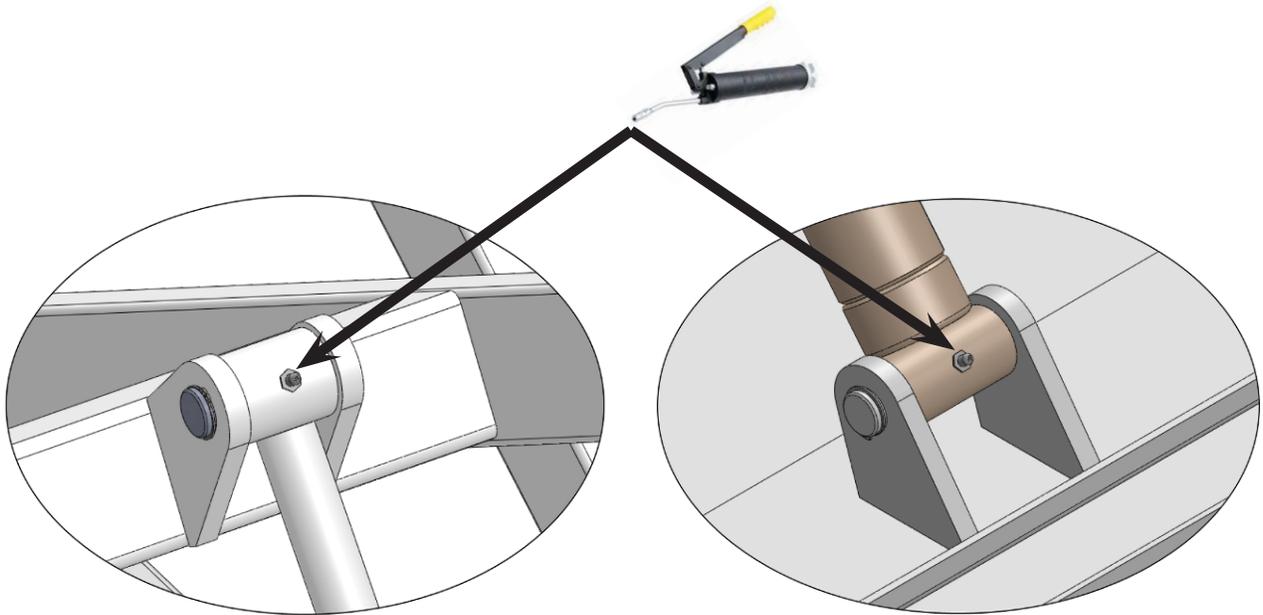


Fig. 18

2. Check all connectors, bolts and pins to insure proper mounting.
3. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage.

Every six months:

1. Make a visual inspection of all moving parts for possible wear, interference or damage.
2. Check all fasteners and re-torque anchor bolts to 85-110 foot lbs.

Trouble Shooting

NO	TROUBLE	CAUSE	REMEDY
1	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 burned out 	<ol style="list-style-type: none"> 1. Replace button 2. Repair all wiring connections 3. Repair or replace motor 4. Replace AC Contactor
2	Motor runs but the lift is not raised	<ol style="list-style-type: none"> 1. Motor runs in reverse rotation 2. Release Valve in damage 3. Gear Pump out of operation 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
3	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 	<ol style="list-style-type: none"> 1. Repair or replace 2. Repair or replace 3. Replace fitting and oil seal
4	Lift rises 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
5	Lift can not lower	<ol style="list-style-type: none"> 1. Safety device are not in activated 2. Release Valve in damage 3. Oil system is jammed 	<ol style="list-style-type: none"> 1. Release the safety device 2. Repair or replace 3. Clean the oil system

Parts List

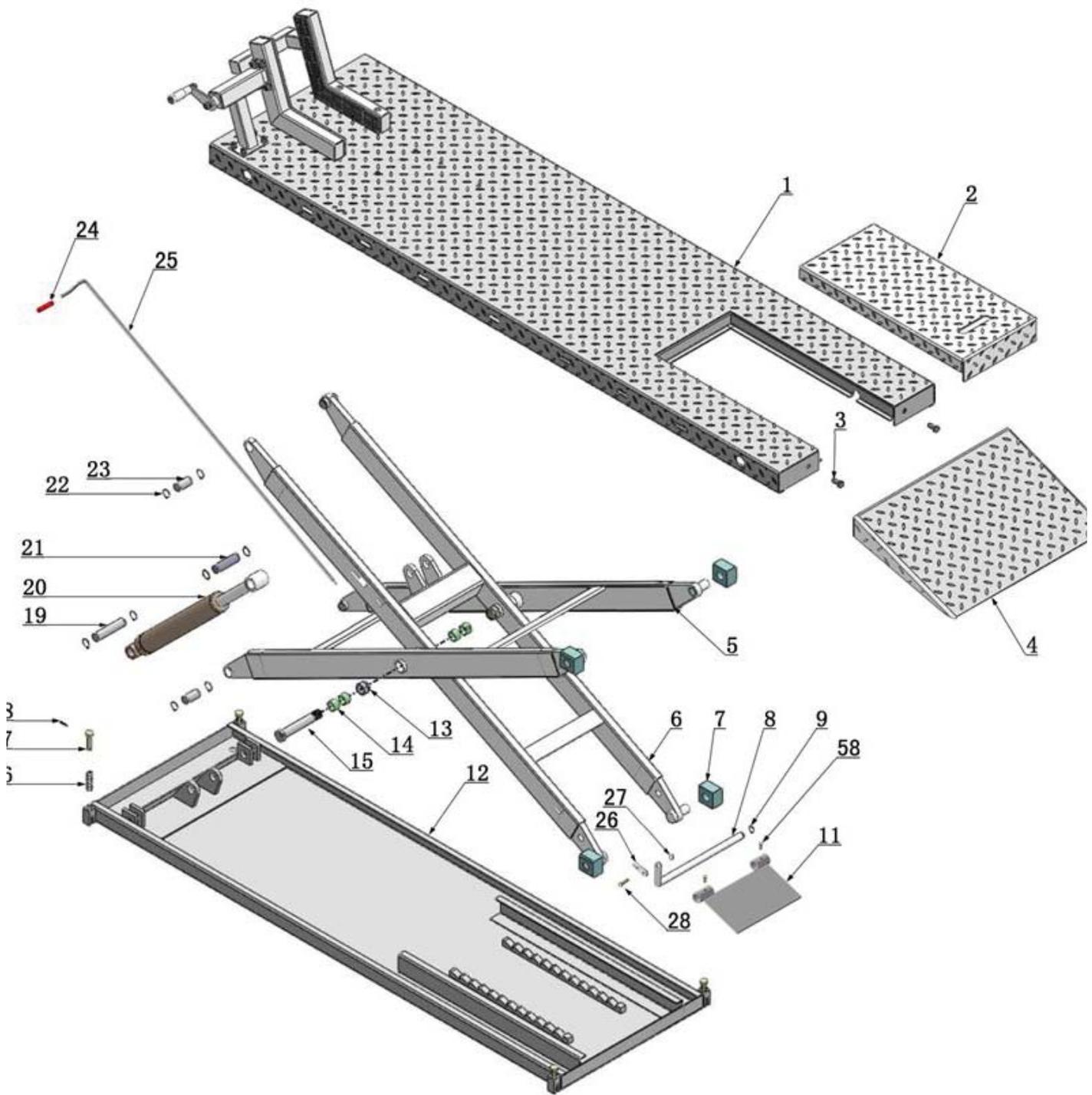


Fig. 19

Main Platform

Item	Part#	Description	QTY.	Note
1	11720020	Platform	1	
2	11720021	Cover plate of Platform	1	
3	10217069	Hex bolt	2	
4	11720022	Drive-in ramp	1	
5	11720023	Outer scissor assembly	1	
6	11720024	Inner scissor assembly	1	
7	10610023	Sliding block	4	
8	11720011	Pin for safety device	1	
9	10206019	Snap ring	2	
10	10640050	Socket bolts	2	
11	11720026	Safety device assembly	1	
12	11720027	Base assembly	1	
13	10620022	Self-locking nut	2	
14	10203004A	Bronze bush	8	
15	11720007	Pin for Scissor	2	
16	10720003	Spring	5	
17	11720012	Pin for Spring	4	
18	10209025	Hair Pin	6	
19	11640006A	Cylinder Base Pin ϕ 25	1	
20	10640007	Cylinder	1	
21	11640057	Pin For Cylinder Connecting	1	
22	10206032	Snap ring	12	
23	11720009	Connecting pin	4	
24	11720046	Pin roll	1	
25	11720051	Connecting pin for safety lock	1	
26	11720005	Handle	1	
27	10206003	Rubber bush for handle	1	
28	11720050	Fixed shaft sleeve	1	
29	10209021	Hex nut	6	
30	10720043	Rubber pad	2	
31	10209022	Flat Washer	6	
32	10209039	Lock Washer	6	
33	10720002	Socket bolt	6	
34	11720028	Fixed frame	1	
35	10720044	Rubber pad	2	
36	10209019	Countersunk screw	24	
37	11720048	Tire stop tube assembly	1	
38	10720045	Flat gasket	1	
39	10209033	Flat Washer	6	

Item	Part#	Description	QTY.	Note
40	10209034	Lock washer	7	
41	10420043	Socket bolt	6	
42	11720017	Adjusted shaft	1	
43	11720016	Connecting plate for handle	1	
44	10206023	Self locking nut	1	
45	10720015	Fixed Bolt for operating handle	1	
46	11720018	Operating handle	1	
47	10206006	Flat Washer	1	
48	11720032	Adjusted shaft fixing tube assembly	1	
49	11720031	Active tube assembly	1	
50	11720030	Lock car movable arm assembly	1	
51	10420244	Transition Fitting	1	
51A	10420245	Exchange Fitting	1	
51B	10420119	Straight fitting	1	
52	10440042	Oil hose	1	
52A	10209060	Power unit 90°fitting	1	
53	11720131	Power unit bracket assembly	1	
53A	10209005	Self-locking nut	4	
53B	10209004	Rubber ring	4	
53C	10209003	Hex bolt	4	
54	10209059	Anchor bolt	4	
55	10720013	Safety cable	1	
56	10720014	Strainer bandage	1	
57	10720050	Parts box	1	
57A	11720010	Tool tray bracket	1	
57B	10206156	Tool tray	1	
200	81513009	Manual power unit	1	
Optional: Width Extension Kits				
58	10720036	Connecting pin	2	
59	10720035	Width extension platform	2	
60	11209012	Hair pin	4	
61	10217069	Hex bolt	4	
62	11720034	Width extension drive-in ramp	2	
Optional: Extension Kits				
63	10209126	Hex bolt	4	
64	10209039	Lock Washer	4	
65	10209022	Flat Washer	4	
66	10209021	Hex nut	4	
67	11720062	Extension platform	1	

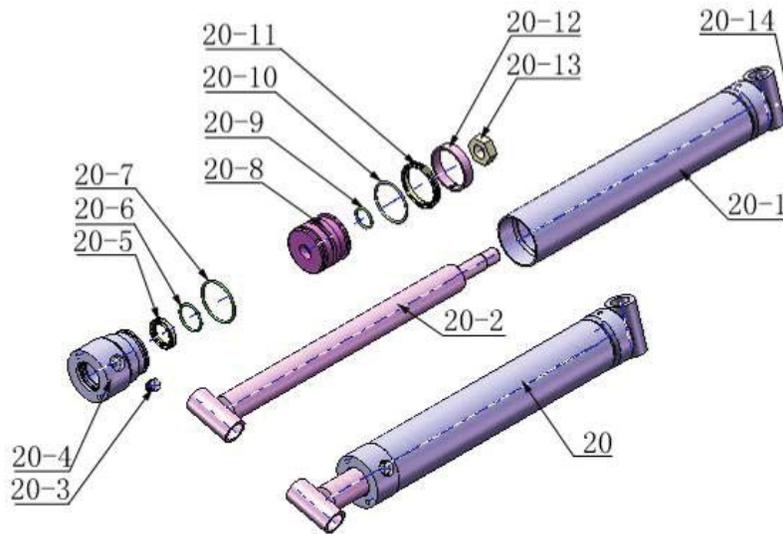


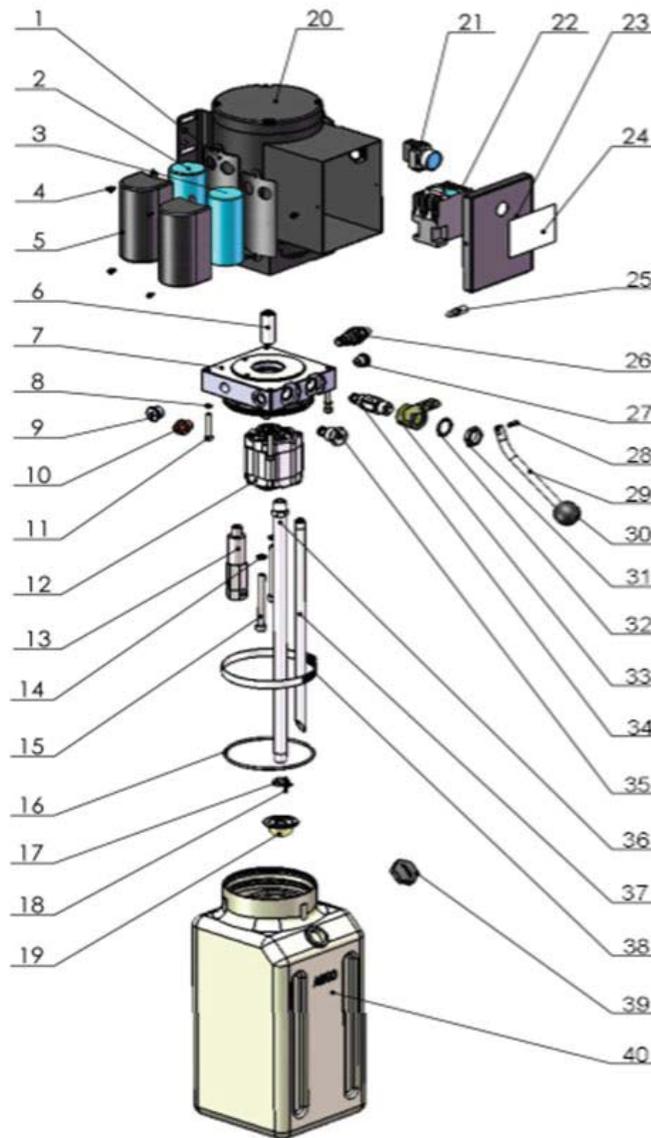
Fig. 20

Parts For Cylinder

Item	Part#	Description	QTY.	Note
20-1	11640030A	Bore Weldment	1	
20-2	11640031A	Piston Rod	1	
20-3	10201034	Bleeding Plug	1	
20-4	11201033	Head Cup	1	
20-5	10209078	Dust Ring	1	
20-6	10201032	O-Ring	1	
20-7	10201035	O-Ring	1	
20-8	11201028	piston	1	
20-9	10206069	O-Ring	1	
20-10	10201031	O-Ring	1	
20-11	10201030	Y-Ring	1	
20-12	10201029	Support Ring	1	
20-13	10206071	Nut	1	
20-14	10620064	Oil nozzle	2	

Single Phase 110V/60HZ
Manual Power Unit

Fig. 21



Parts For Manual Power Unit

Item	Part#	Description	QTY.	Note
1	81400180	Rubber pad	2	
2	81400130	Start capacitor	1	
3	81400088	Run capacitor	1	
4	420148	Cup head bolt with flat washer	6	
5	81400066	Cover for capacitor	2	
6	81400363	Motor connecting shaft	1	
7	81400362	Manifold block	1	
8	10209149	Lock washer	4	
9	81400276	Iron plug	1	
10	81400259	Red rubber plug	1	
11	85090142	Socket bolt	4	

12	81400280	Gear pump	1	
13	81400537	Buffer valve	1	
14	10209034	Lock washer	2	
15	81400295	Socket bolt	2	
16	81400365	O-ring	1	
17	10209152	Belt	1	
18	85090167	Magnet	1	
19	81400290	Filter mesh	1	
20	81400568	Steel plate motor	1	
21	10420070	Button switch	1	
22	41030055	AC contactor	1	
23	81400287	Cover of motor terminal box	1	
24	71111104	AMGO label	1	
25	81400560	Throttle valve	1	
26	81400266	Release valve	1	
27	81400284	Iron plug	1	
28	10720118	Hair pin	1	
29	10720121	Handle for release valve	1	
30	10209020	Plastic ball for arm lock	1	
31	81400125	Release valve nut	1	
32	81400124	Release valve shim	1	
33	81400449	Valve seat(Low)	1	
34	81400492	Release valve	1	
35	81400267	Check valve	1	
36	81400288	Oil suction pipe	1	
37	81400289	Oil return pipe	1	
38	81400364	Hose clamp(stainless steel)	1	
39	81400263	Oil tank cover	1	
40	81400320	Oil tank	1	

Illustration of hydraulic valve for Atlas manual power unit (single phase)

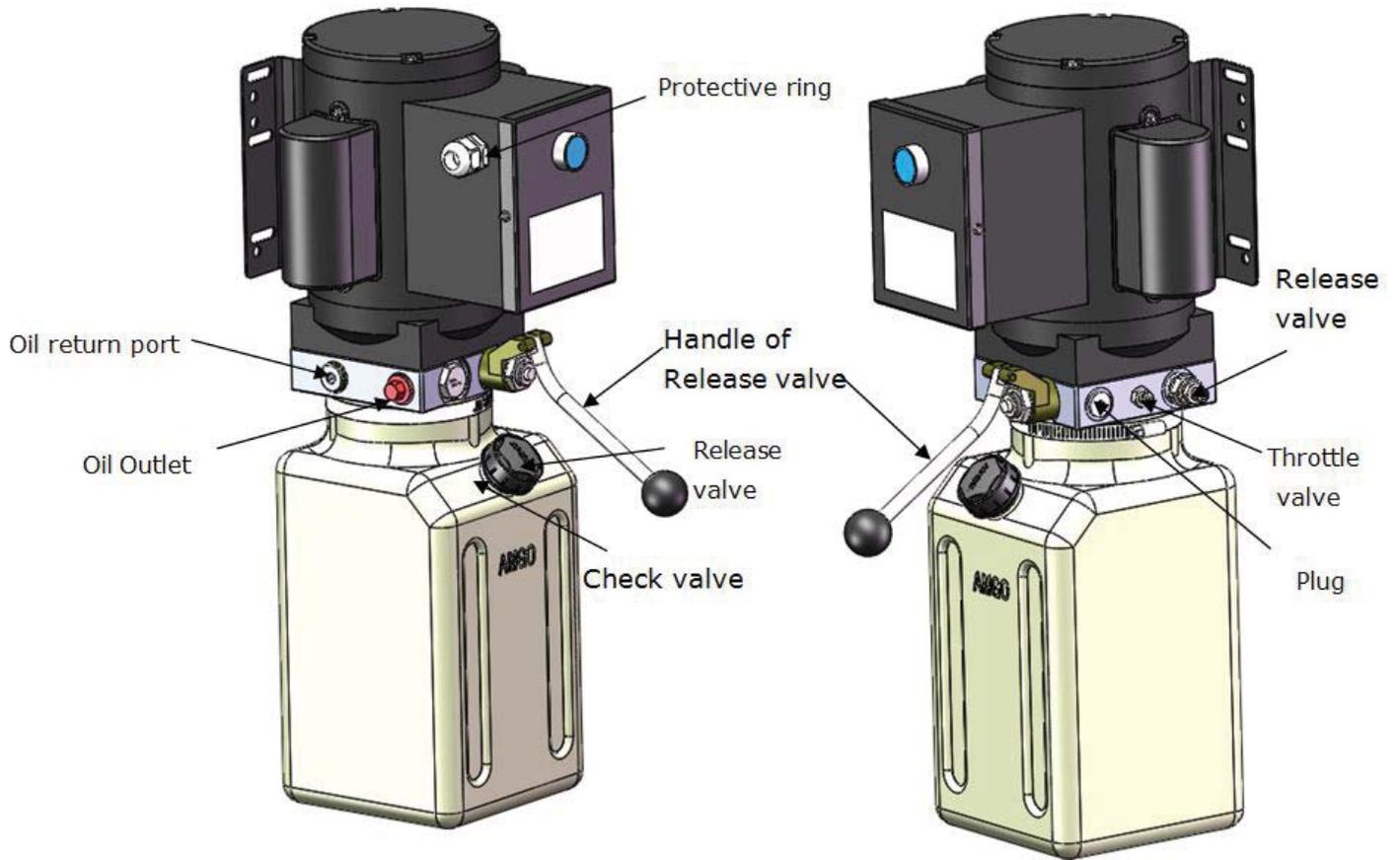


Fig. 22

Warranty



This item is warranted for one (1) year on parts from date of invoice.

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.