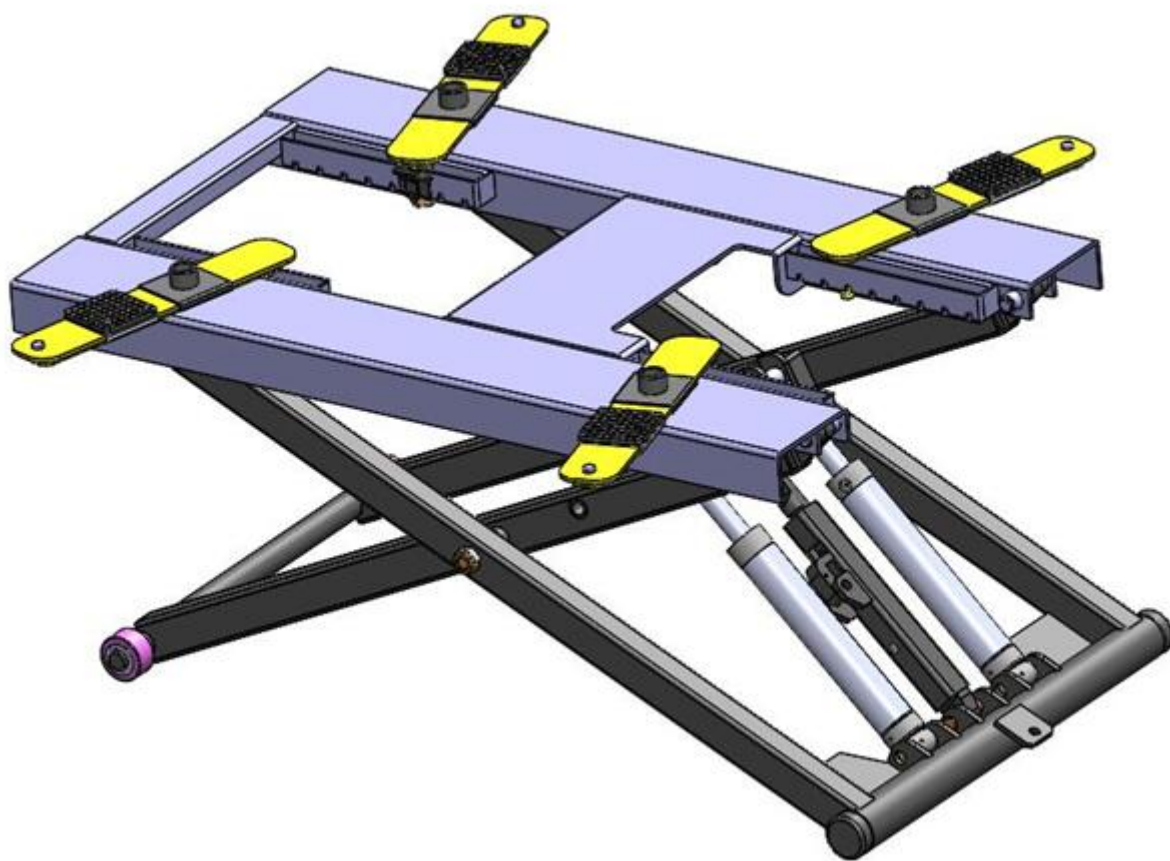


Installation And Service Manual



Portable Mid-rised Lift
Model: MR06

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I. PRODUCT FEATURES AND SPECIFICATIONS

PORTABLE MID-RISED MODEL MR06

- Manual safety lock: 7 position safety locks, mechanical safety locks release, No need air source.
- High speed: From 0-1090mm (43") in just 21 seconds
- Portable design: It is easy to move the whole lift with the power unit stand
- Adjustable rubber pad included

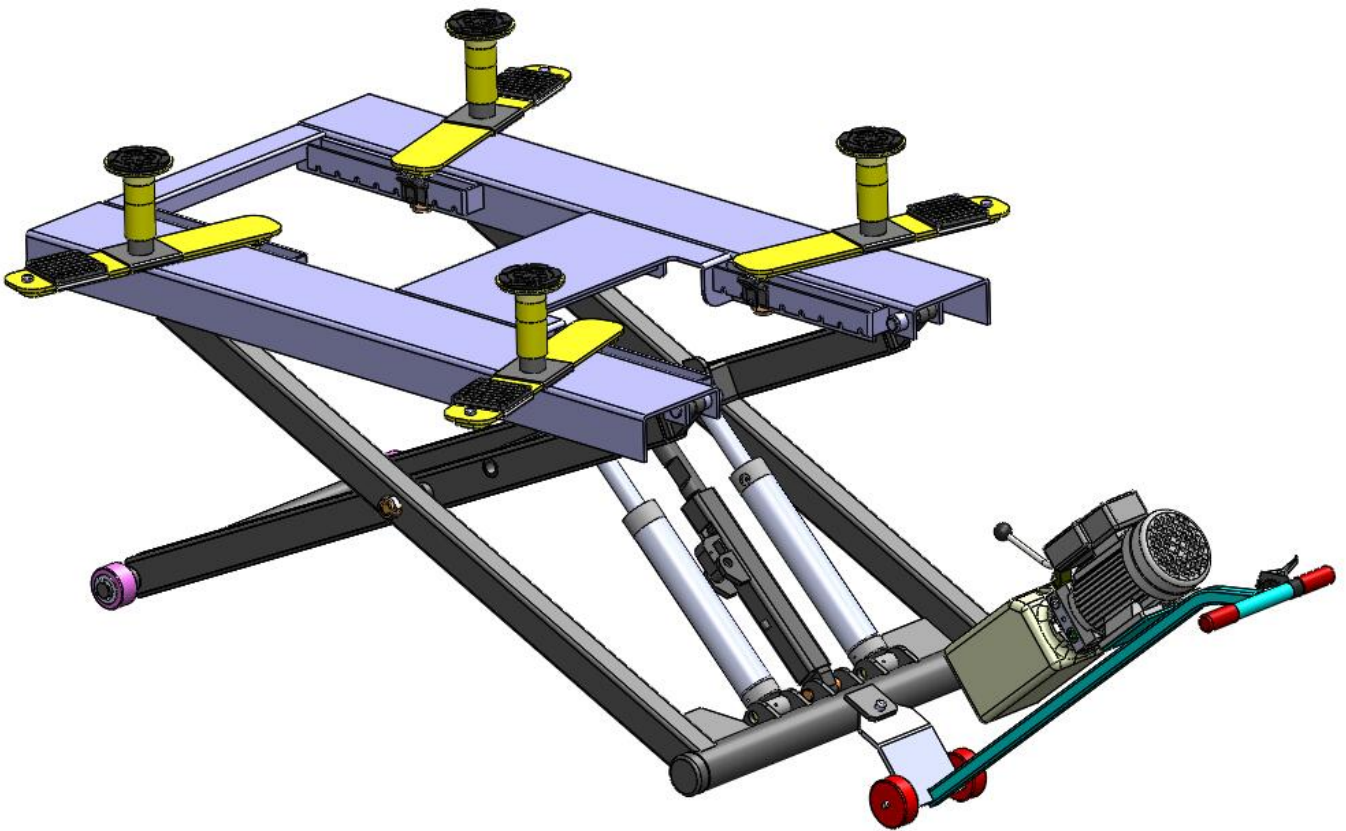


Fig.1

MODEL MR06 SPECIFICATIONS

Model	Lifting Capacity	Raised Height	Lifting Time	Overall Length	Platform Width	Swing Width	Lowered Height	Gross Weight	Motor
MR06	2.8T 6,000 lbs	1090mm 43"	21S	1885mm 74-1/4"	1000mm 39-3/8"	1604mm 63 1/8"	125mm 5"	394Kg 840 lbs	1.5HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

✓ Screw Set



✓ English Spanner (12")



✓ Wrench sets: (13[#]、15[#]、17[#]、19[#])



✓ Grease gun



✓ Hook spanner (40~42mm)



✓ Pliers



Fig. 2

B. POWER SUPPLY

The electrical source must be 1.5HP minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. INSTALLATION STEPS

A. Check the parts before assembly, 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. 3**).

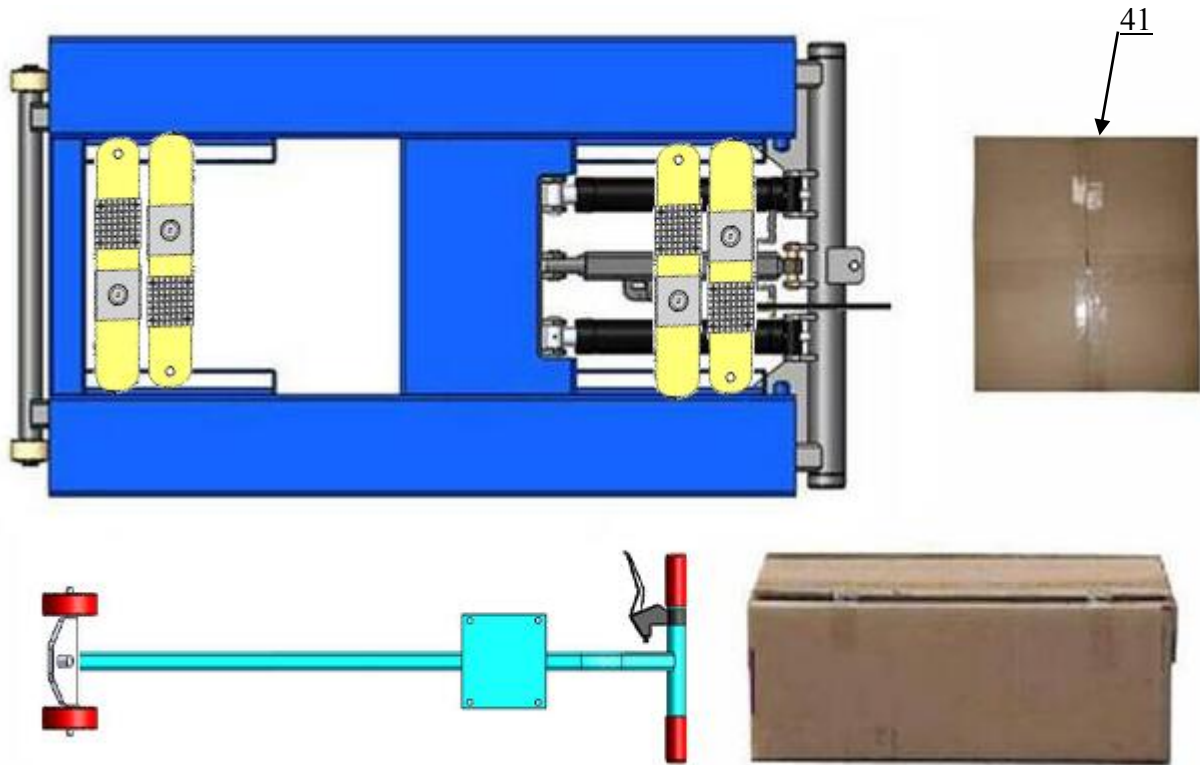


Fig. 3

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



Fig. 4

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



Fig.5

B. Install brake handle (See Fig. 6)

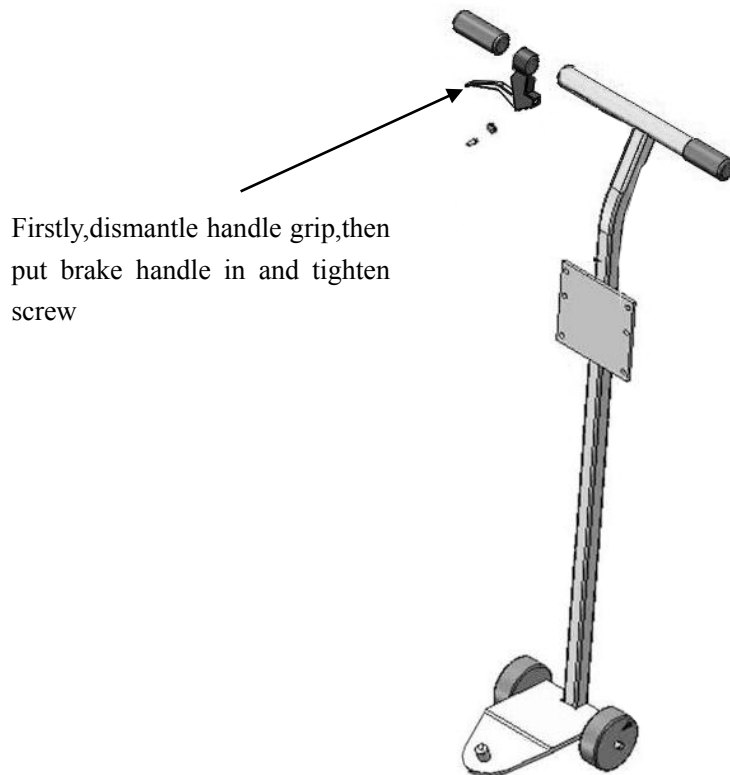


Fig. 6

Install power unit and power unit fitting (See Fig. 7)

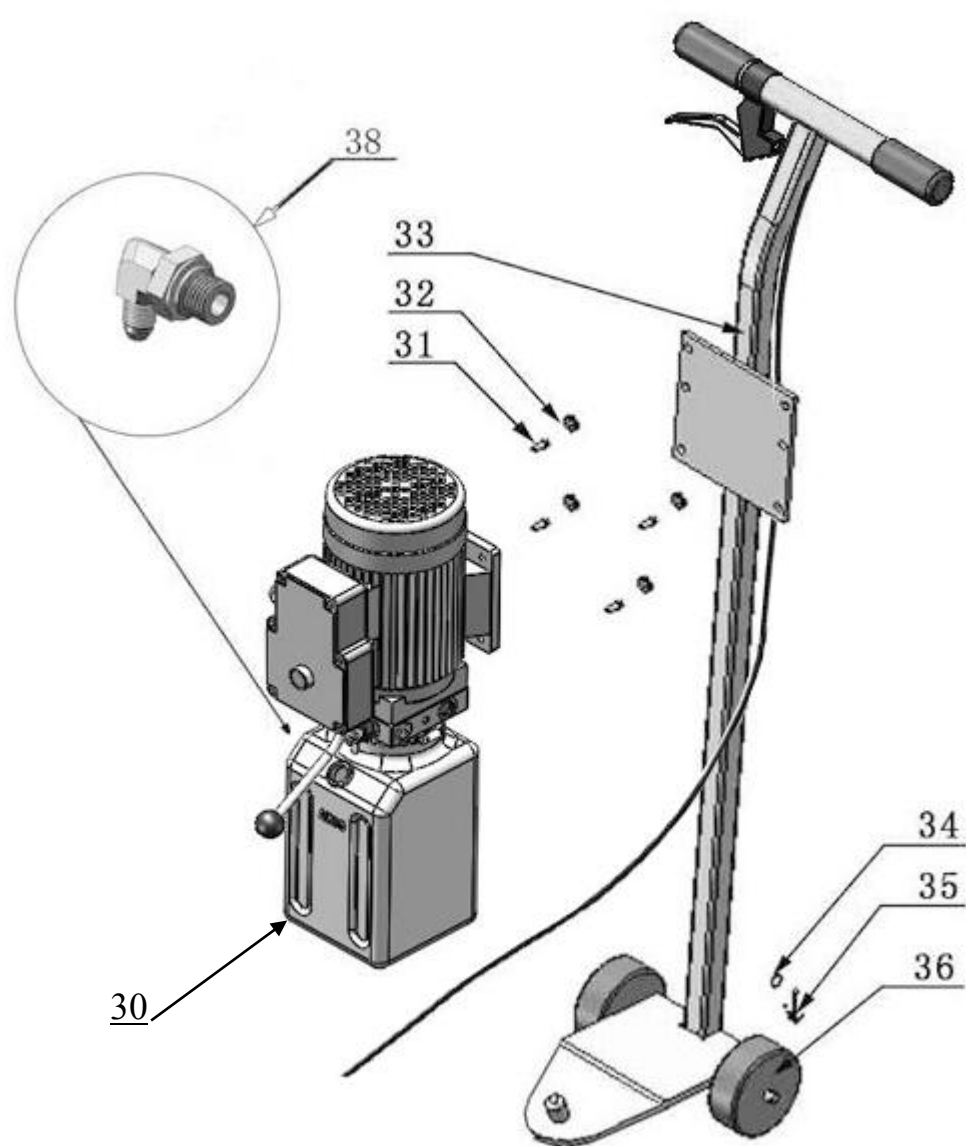


Fig. 7

C. Install oil hose (See Fig.8)

Caution: Wrap some PTFE TAPE
when install fitting

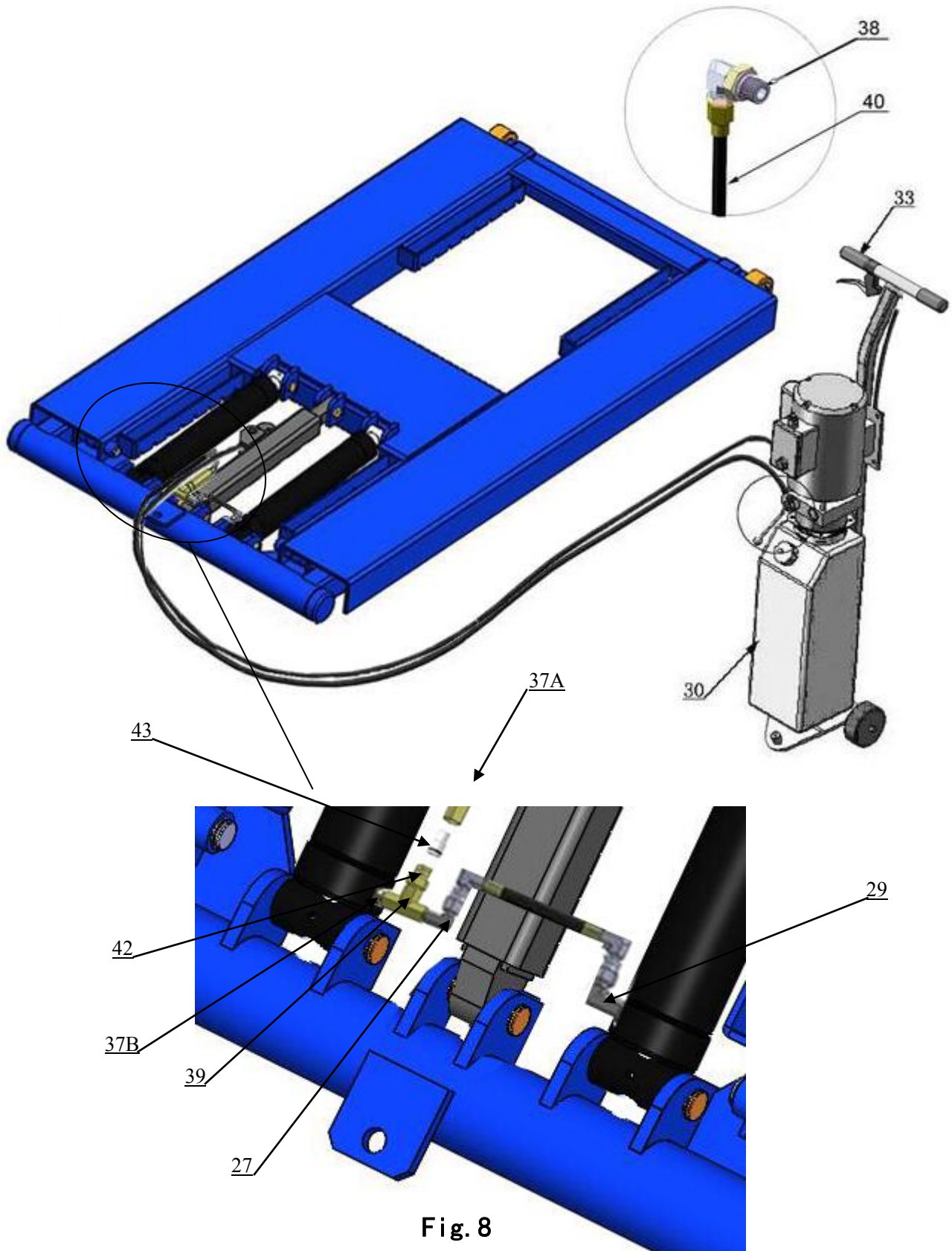


Fig. 8

D.Install safety cable

1. Insert the Safety cable to the hole of the bolt of M8*16.(See Fig.9)

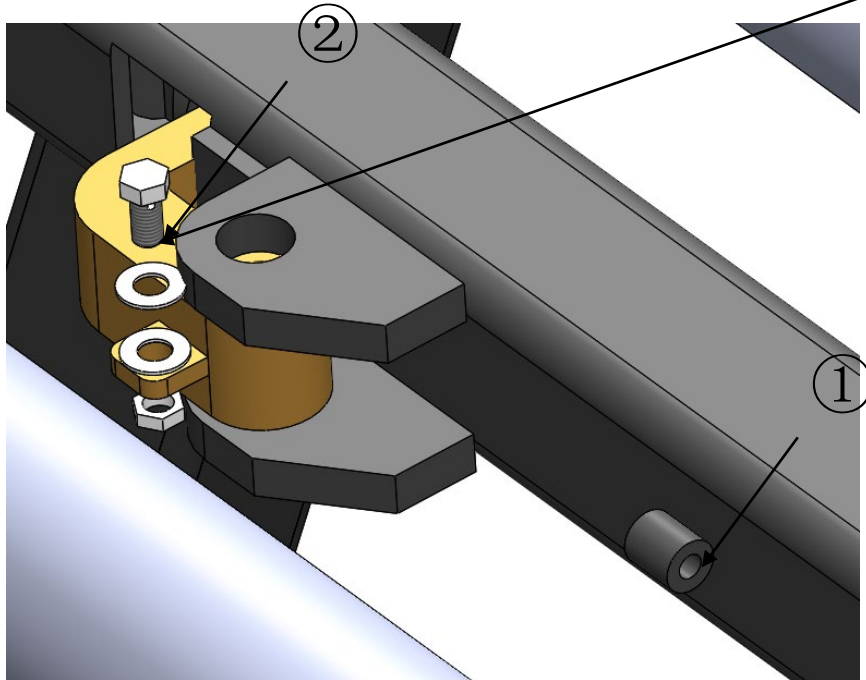


Fig. 9

2. Lower the lift in order to lock it on the safety device then tighten the bolt to tighten the safety cable.

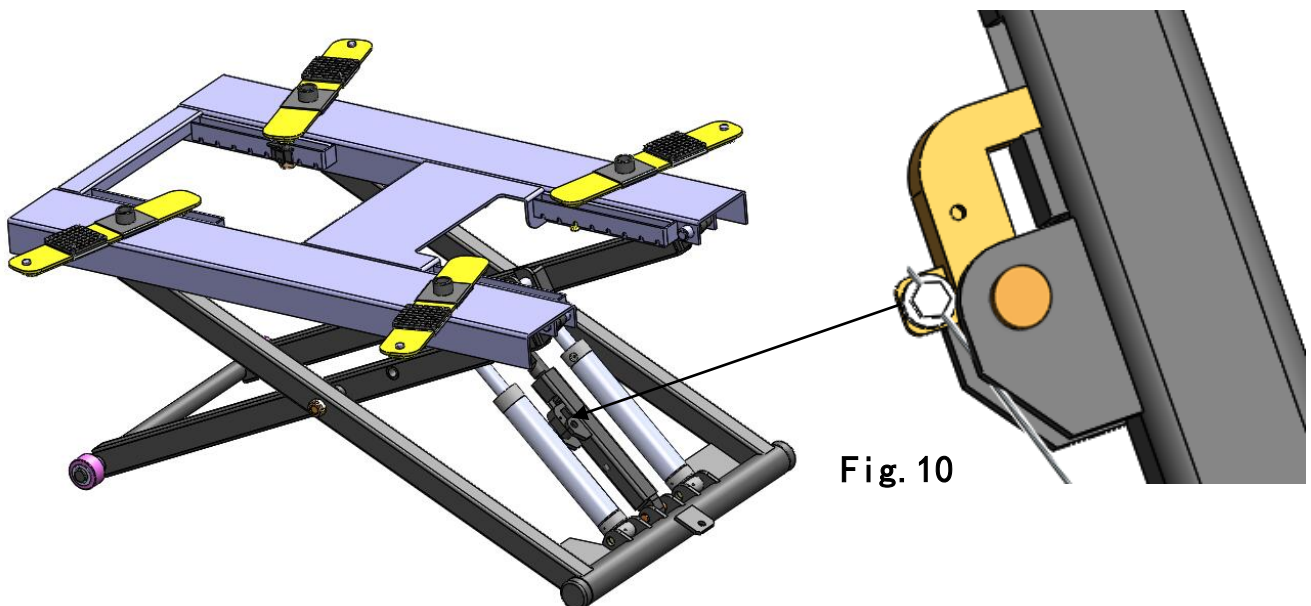


Fig. 10

E.Tighten supporting arm

1. Raise the lift up to 39-3/8" and lock the safety device, then tighten the self-lock nut .(See Fig. 11)

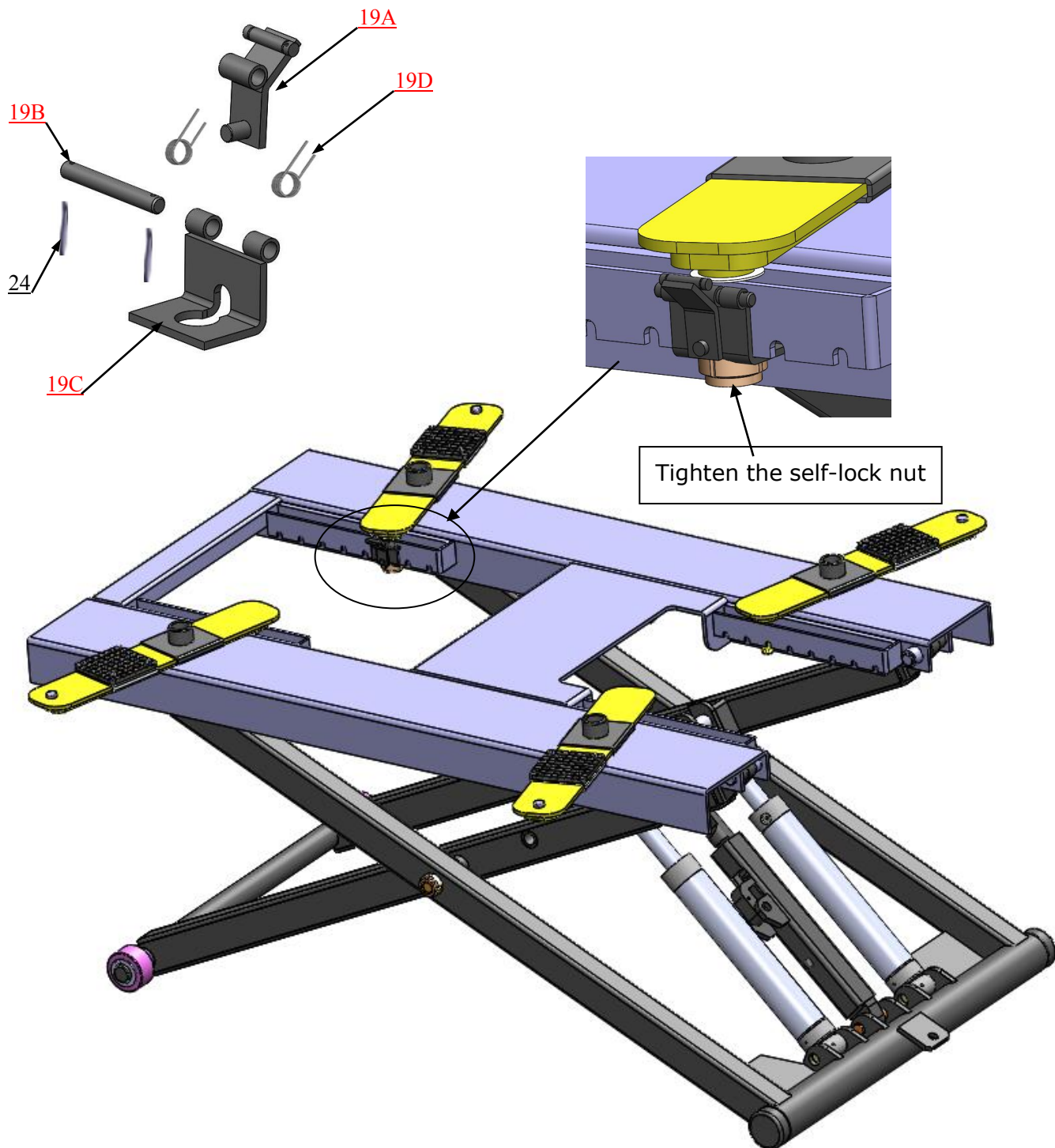


Fig. 11

F Install electric system

Connect the power source on the data plate of Motor

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 phase motors.

Single phase motor (See Fig. 12)

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. Two wires of control button connected with terminals of AC contactor marked **A1, L1**.

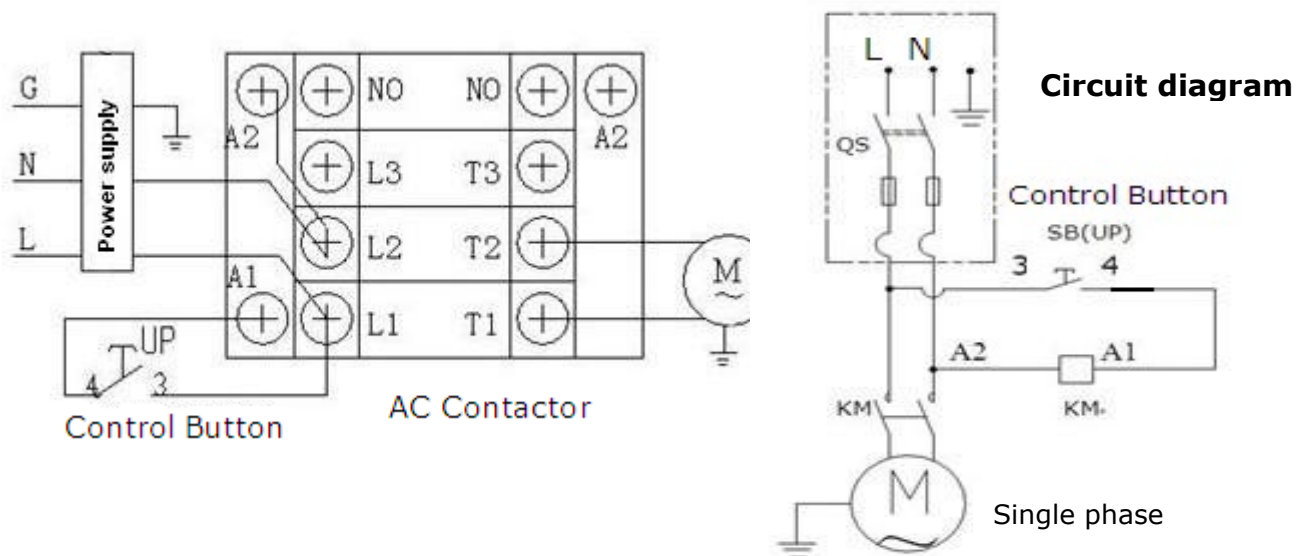


Fig. 12

IV. EXPLODED VIEW

Model MR06

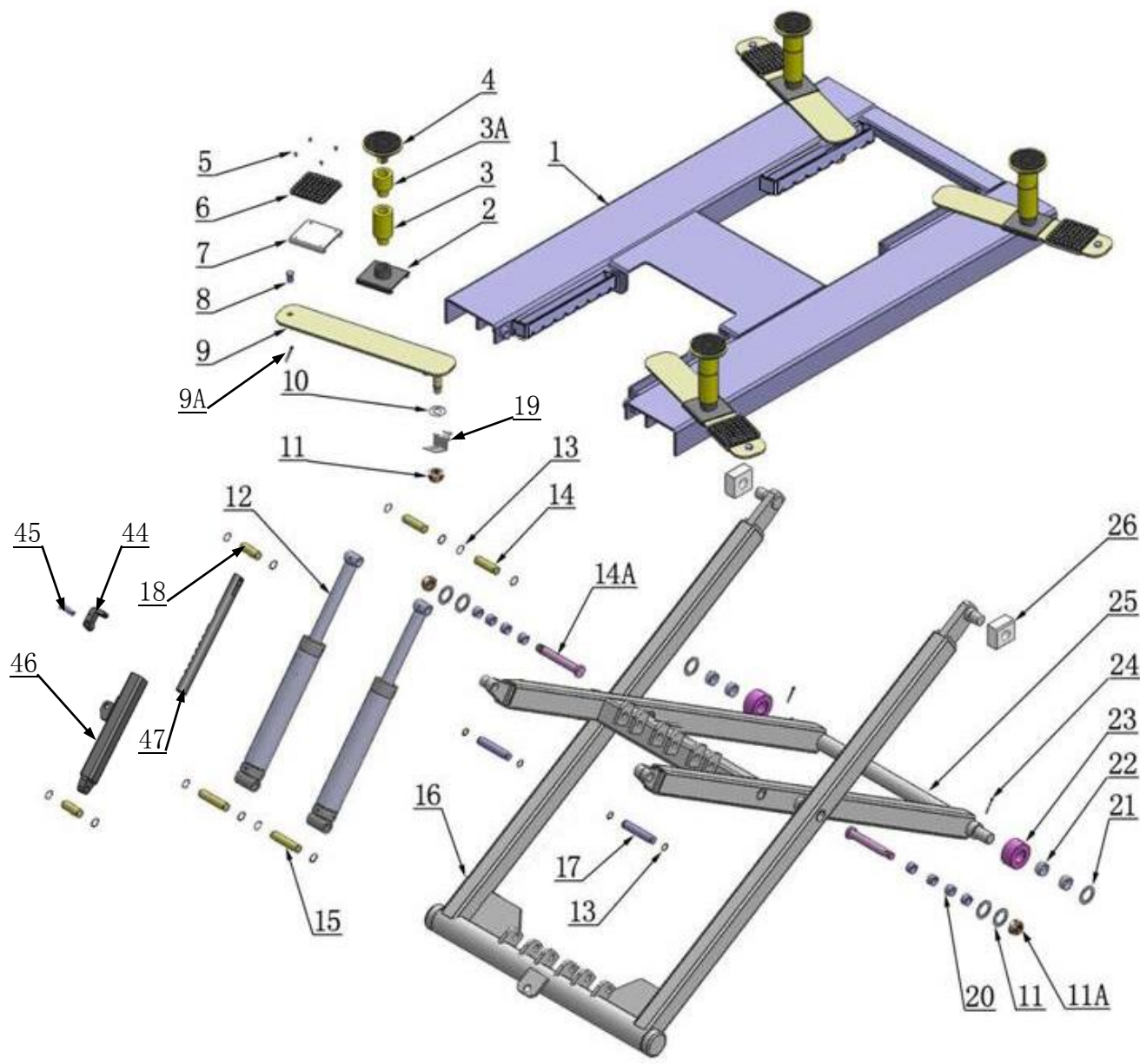


Fig. 13

CYLINDER

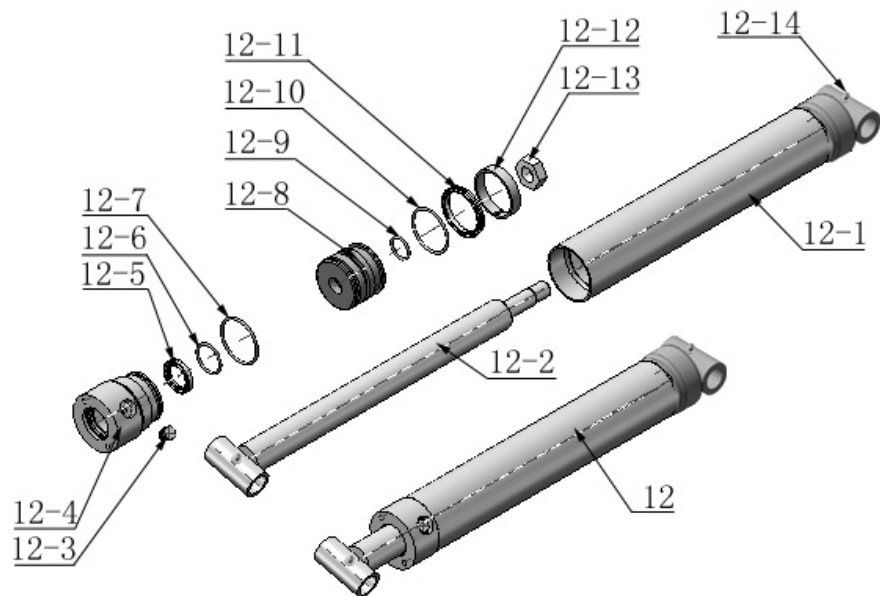


Fig.14

MANUAL POWER UNIT

220V/60HZ/1 phase

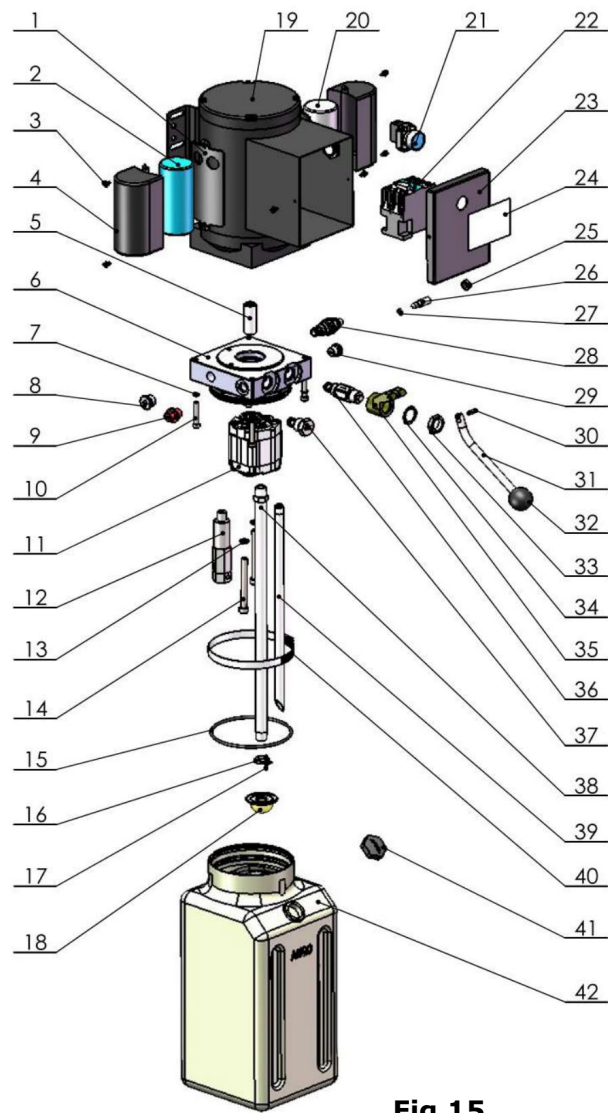
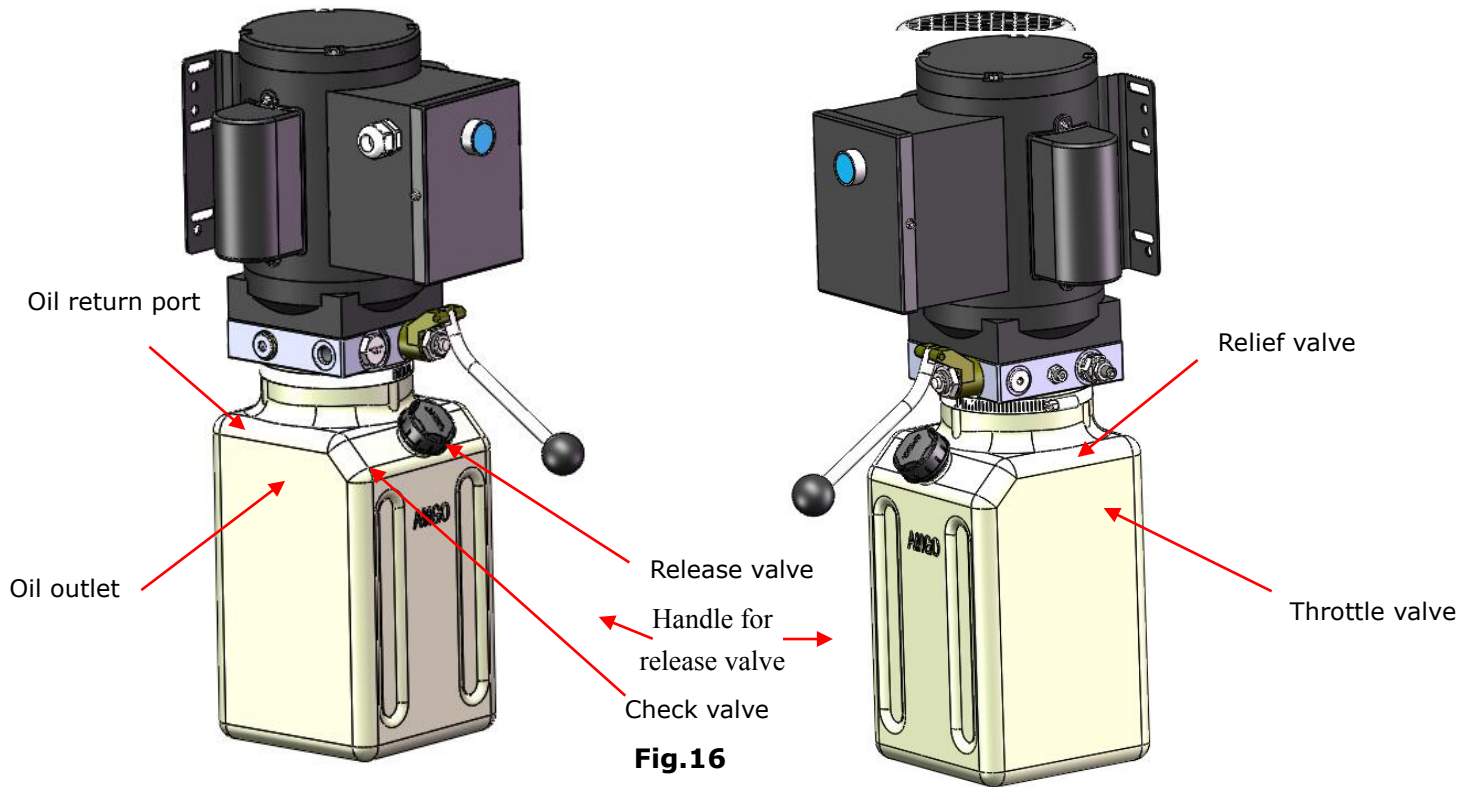


Fig.15

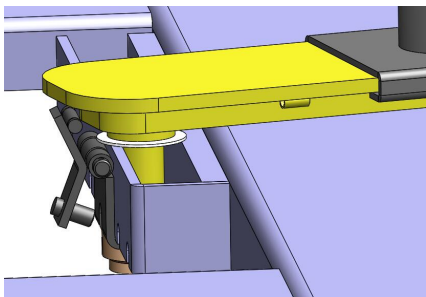
Illustration of hydraulic valves

Single phase 110 V ,60 HZ Manual power unit(Fig.16)



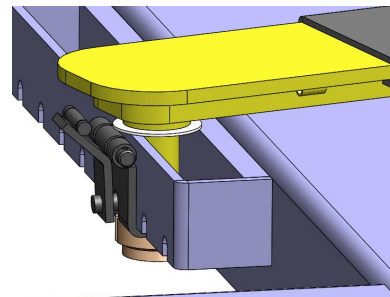
V. OPERATION INSTRUCTIONS

1. Install the oil hose between oil cylinder and power unit, connect with the power supply wire well. The machine can be ready to use.
2. When lifting vehicle, be sure the center of gravity of vehicle must be in the middle of lift, select the suitable adapters and move the arms to find the support point.
(**See Fig.17,18**) Make sure the safety lock must be in engaged when lifting (**See Fig. 19**).
3. Lower the lift: Press the button "**UP**", until the safety lock is in released position clench the brake handle(**See Fig.20,21**), lower the lift by pushing lowering handle.



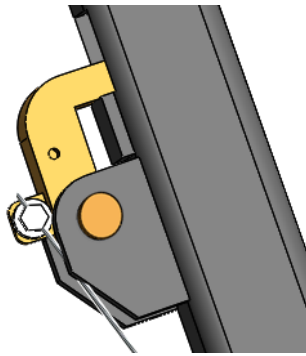
Pull cable to move supporting arm

Fig. 17



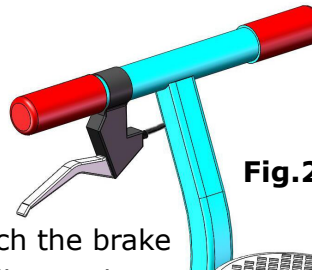
Relax cable to fasten supporting arm

Fig.18



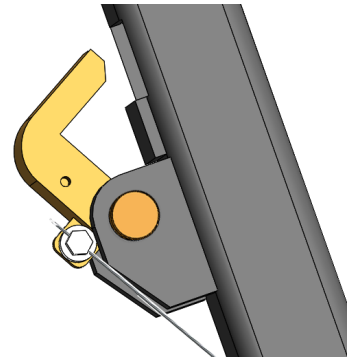
Safety engaged

Fig.19



Clench the brake handle to release

Fig.21



Safety released

Fig.20

4. Move the lift with the trailer assembly (See Fig. 22)

Towing trailing

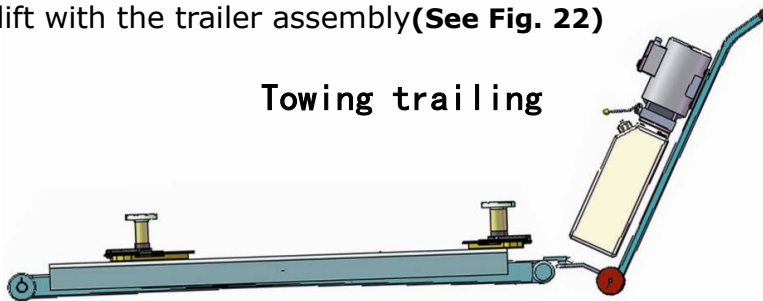


Fig. 22

VI. MAINTENANCE SCHEDULE

Monthly:

1. Lubricate all moving parts with lubricant (See Fig.23).

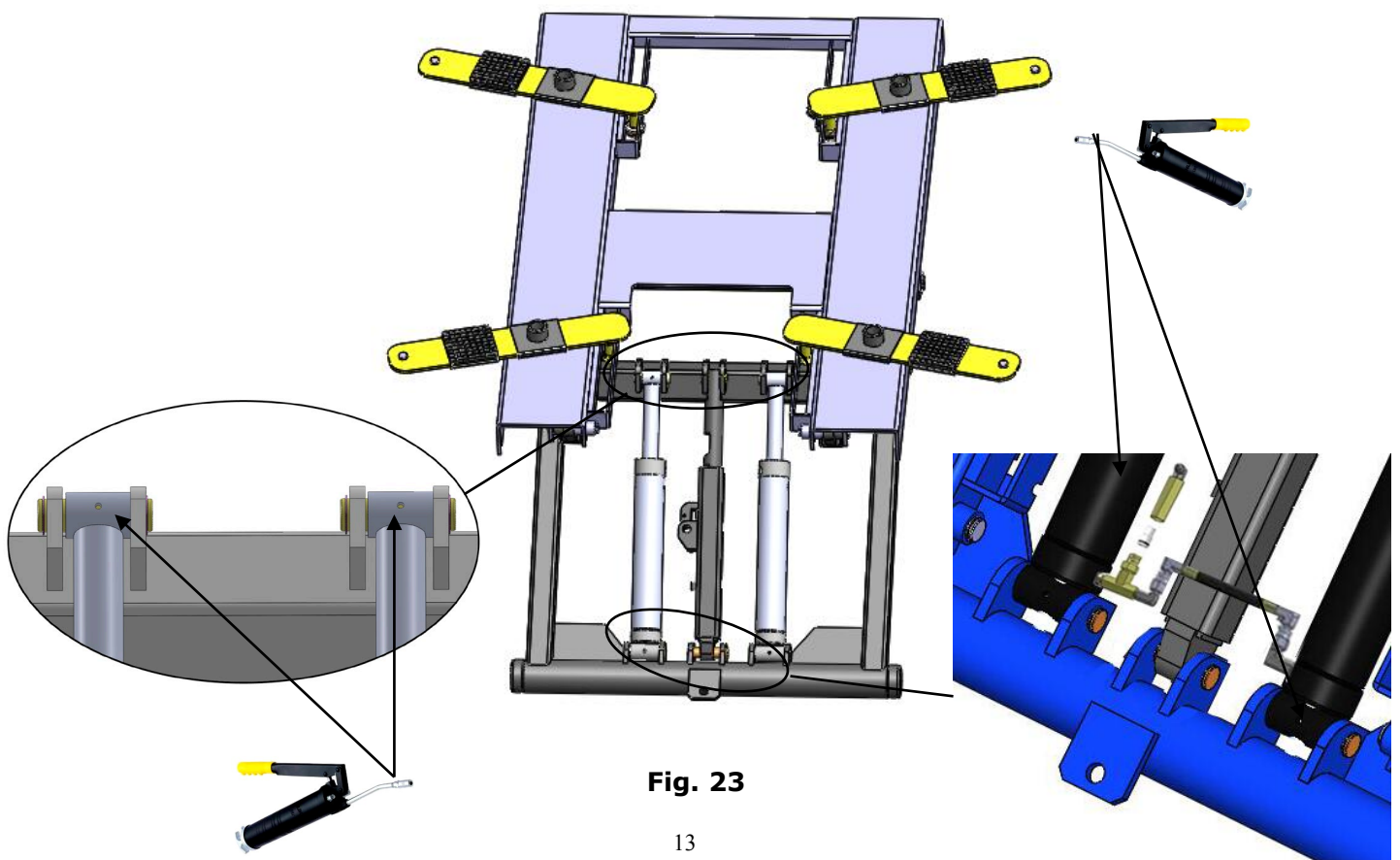


Fig. 23

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 fastener and re-torque.

VII. 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. Safety Switch is damaged 5. AC contactor burned out	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	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	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	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. Repair or replace 5. Check load

Lift cannot lower	1. Safety device are in activated 2. Release Valve in damage 3. Oil system is jammed	1. Release the safeties 2. Repair or replace 3. Clean the oil system
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VIII. PARTS LIST FOR MODEL MR06

Item	Part#	Description	QTY.	Note
1	11640001	Platform	1	
2	11640002A	Stackable Adapter Bracket	4	
3	11209052B	Stackable Adapter (2.5")	4	
3A	11209051B	Stackable Adapter (1.5")	4	
4	10201046A	Rubber Pad Assy.	4	
4A	10420138	Socket bolt	4	
4B	10209134	Rubber pad	4	
4C	11680030C	Rubber Pad Frame	4	
5	10209009	Cup Head Bolt	16	
6	10680004	Rubber Pad	4	
7	10640003	Supporting pad	4	
8	11640023A	Limit pin	4	
9	11640004	Supporting arm	4	
10	10640005	Washer	10	
11	10640109	Washer	4	
11A	10620022	Self locking Nut	8	
12	10640116	Cylinder	2	
13	10206032	Snap Ring	12	
14	11640057	Pin For Cylinder Connecting	2	
14A	11640012	Pin	2	
15	11640006A	Pin for Cylinder	2	
16	11640017B	Outer Scissor	1	
17	11640009	Inner Scissor Pin	2	
18	11640130	Safety Bar Set	2	
19	19A 11640134	Slide limit block	4	
	19B 11640135	Slide stop	4	

	19C	11640136	Safety Pin	4	
	19D	10640127	Spring	8	
20		10203004A	Bronze Bush	8	
21		10420023A	Washer	2	
22		10420132A	Bronze Bush	4	
23		11640022	Roller	2	
24		10630107	Split Pin	10	
25		11640016B	Inner Scissor	1	
26		10610003A	Slider	2	
27		1061K107	Straight Fitting	1	
28		10640114	Oil Hose	1	

Item	Part#	Description	QTY.	Note
29	10420097	Straight Fitting	2	
30	81513006/ 81513007	Manual Power Unit	1	
31	10209003	Hex Bolt	4	
32	10209005	Self locking Nut	4	
33	10640138	Power Unit Stand	1	
34	10206006	Washer	2	
35	10201005	Split Pin	2	
36	10640023	Roller	2	
37A	10201020	90° Fitting	1	
37B	10209119	compensation valve	1	
38	10209060	Straight Fitting For Power Unit	1	
39	10206062	T Fitting	1	
40	10630110	Oil Hose	1	
41	10640500A	Parts Box	1	
42	10420244	Straight fitting	1	
43	10420245	Straight fitting	1	
44	11640132	Safety block	1	
45	11640131	Safety block pin	1	
46	11640675	Self-lock supporting tube	1	
47	11640667	Self-lock supporting pin	1	
48	10640115	Brake Handle	1	
PARTS FOR HYDRAULIC CYLINDER				
12-1	11640657	Bore Weldment	2	
12-2	11640031A	Piston Rod	2	
12-3	10201034	Bleeding Plug	2	

12-4	11203083	Head Cap	2	
12-5	10209078	Dust Ring	2	
12-6	10201032	O - Ring	2	
12-7	10203084	O - Ring	2	
12-8	11203079	Piston	2	
12-9	10206069	O-Ring	2	
12-10	10203082	O-Ring	2	
12-11	10410087	Y-Ring	2	
12-12	10410086	Support Ring	2	
12-13	10206071	Nut	2	
12-14	10620064	Greasing Fitting	4	

Manual Power Unit 110V/60HZ/1 phase

Item	Part#	Description	QTY.	Item	Part#	Description	QTY
1	81400180	Rubber pad	2	22	41030055	Ac contactor	1
2	81400073	Start capacitor	1	23	81400287	Cover of motor	1
3	10420148	Cup Head Bolt with washer	6	24	71111106	AMGO power unit label	1
4	81400066	Cover of capacitor	2	25	81400296	Nut	1
5	81400363	Motor connecting shaft	1	26	81400459	Throttle valve body	1
6	81400362	Manifold block	1	27	10209069	O-ring	1
7	10209149	Washer $\phi 6$	4	28	81400266	Relief valve	1
8	81400276	Iron plug	1	29	81400284	Iron plug	1
9	81400259	Red rubber plug	1	30	81400452	Hair pin	1
10	85090142	Lock Washer	4	31	81400451	Handle for release valve	1
11	81400312	Gear pump	1	32	10209020	Plastic ball for arm lock bar	1
12	81400294	Buffer valve	1	33	81400125	Nut for release valve	1
13	10209034	Washer $\phi 8$	2	34	81400124	Shim for release valve	1
14	81400295	Socket bolt	2	35	81400449	Valve seat(low)	1
15	81400365	O-ring	1	36	070001	Release valve	1
16	10209152	Ties	1	37	070002	Check valve	1
17	85090167	Magnet	1	38	81400375	Oil suction pipe	1
18	81400290	Filter	1	39	81400376	Oil return pipe	1
19	81400412	Steel plate motor	1	40	81400364	Hose clamps(stainless steel)	1
20	81400086	Run capacitor	1	41	81400263	Filler cap	1
21	10420070	Button switch	1	42	81400320	Reservoir	1



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