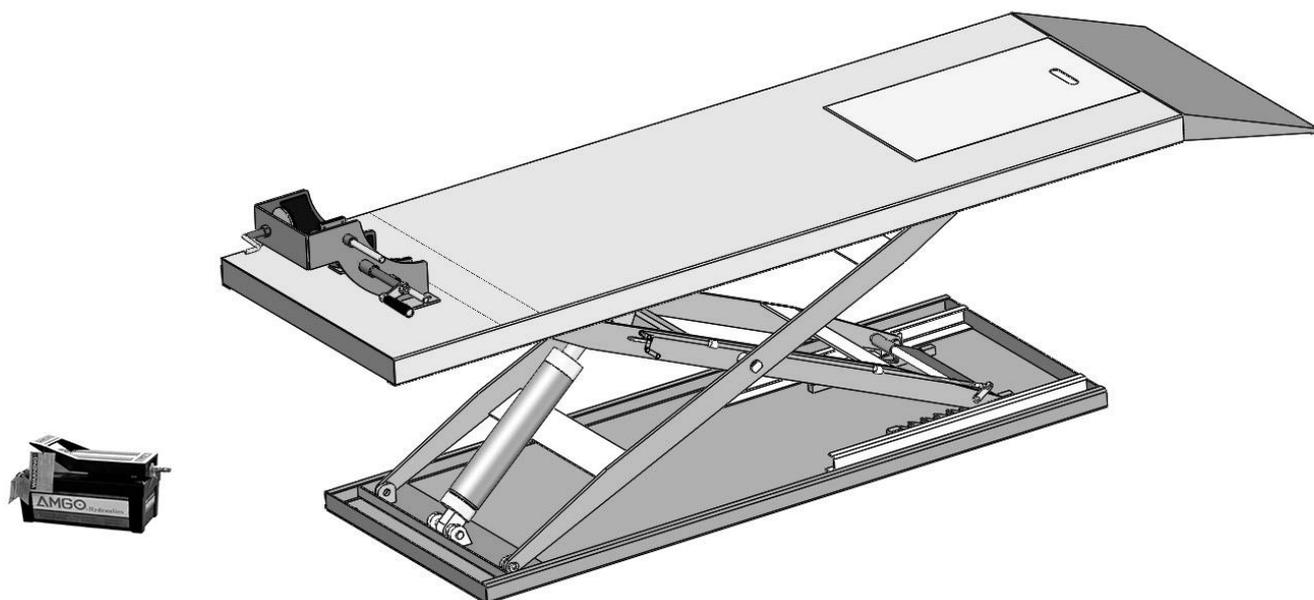


AMGO ® Hydraulics

Installation And Service Manual



Model Number: MC-1200P

Motorcycle Lift

Address: 1931 Jo Rogers Blvd, Manning, South Carolina, USA

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I. PRODUCT FEATURES AND SPECIFICATIONS

Motorcycle lift MC-1200P:

- Hydraulic cylinders, designed and made by USA standard, utilizing oil seal in cylinder.
- Self-lubricating UHMW Polyethylene sliders and bronze bush.
- Non-skid diamond platforms.
- Automatic safety release system.
- Optional: Width extension kit and length extension kit

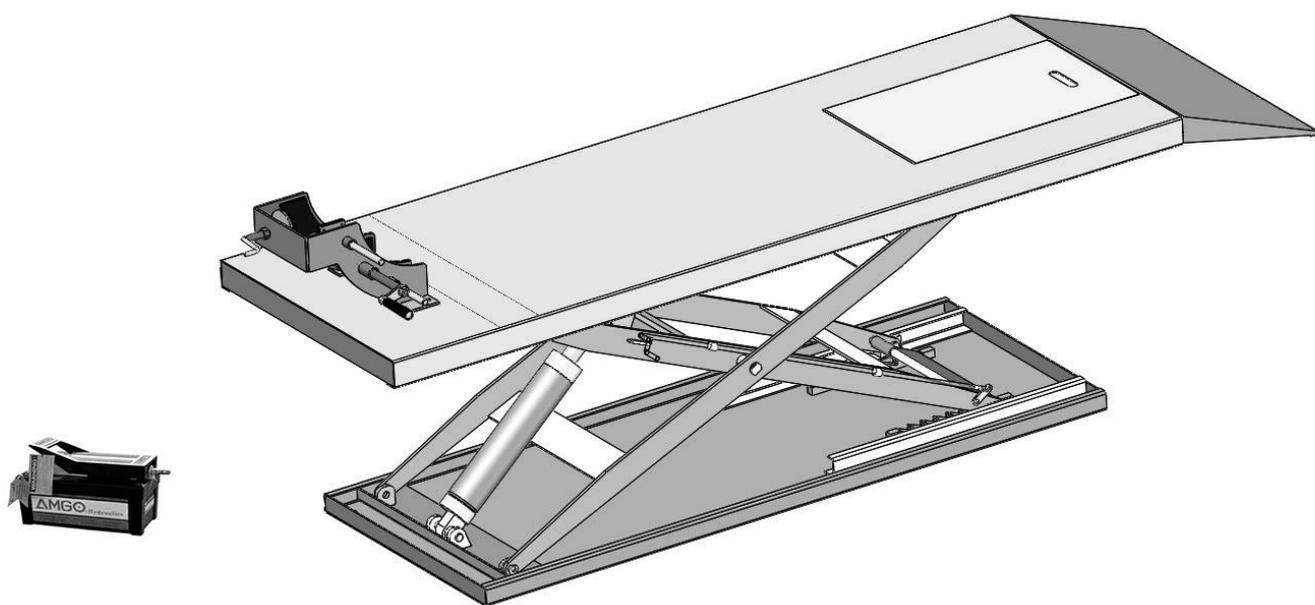


Fig.1

MODEL MC-1200P SPECIFICATION

| Model | Capacity | Lifting Height | Lifting Time | Overall Length | Overall Width | Minimum Height |
|----------|----------|----------------|--------------|----------------|---------------|----------------|
| MC-1200P | 1200lbs | 43" | 23s | 106-1/4" | 29-1/2" | 6" |

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

↳ Rotary Hammer Drill (Φ19)



↳ Screw



↳ English Spanner (12")



↳ Wrench Set: (13#, 15#, 17#, 19#)



↳ Ratchet Spanner with Socket: (28#)



↳ Grease gun



↳ Hook Spanner (40~42mm)



↳ Pliers



Fig.2

B. Foundation requirements.

The ground and concrete must be comply with the manual, otherwise it will cause the lift or vehicle to fall off.

- a. One-time pouring concrete structure, the thickness can not less than 100mm, no steel bar. It must be completely dry before installation.
- b. The concrete strength must be greater than 210kg /cm²

C. Air source requirements.

The air source requirements is greater 0.5Mpa.

III.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, pneumatic hydraulic pump, wheel vise).
Move the parts aside, open the outer packing and check the parts according to the shipment parts list. **see Fig.3**

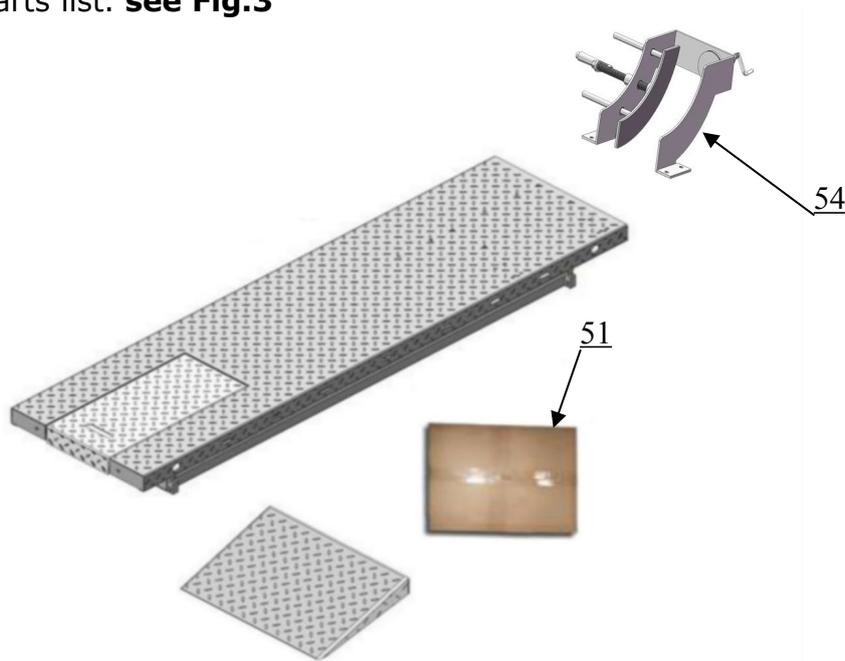


Fig.3

- 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 pneumatic hydraulic pump in good order and connect the oil hose(see Fig.6)

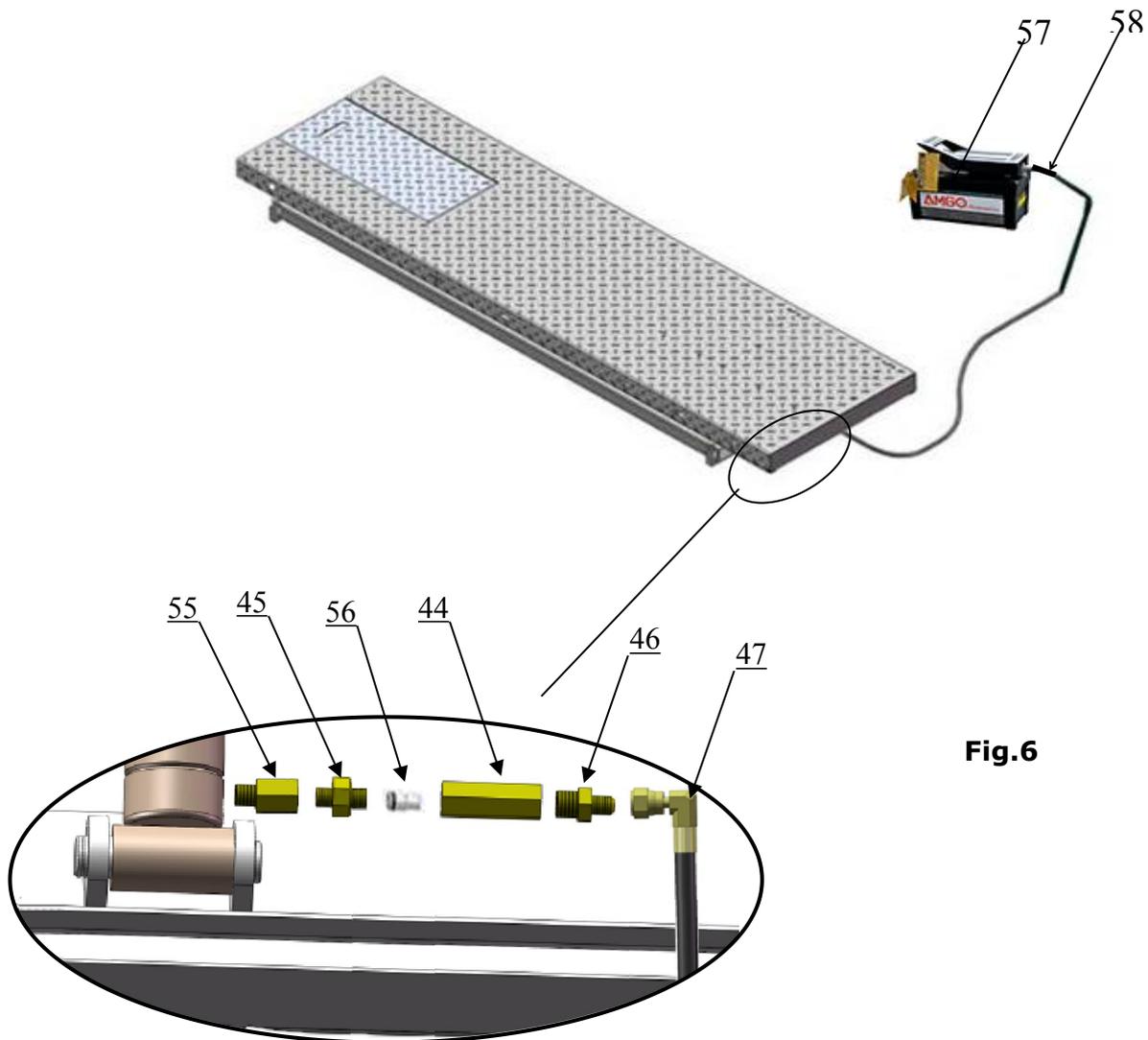


Fig.6

C.Tighten all the oil hose fittings.

D. Install adjustable wheel vise. (See Fig 7)

1. After connected the pneumatic hydraulic pump and cylinder , lifting the motorcycle lift to a suitable height, install the wheel vise as to below photos;
2. The wheel vise can be chosen to install in different installed position of the platform.

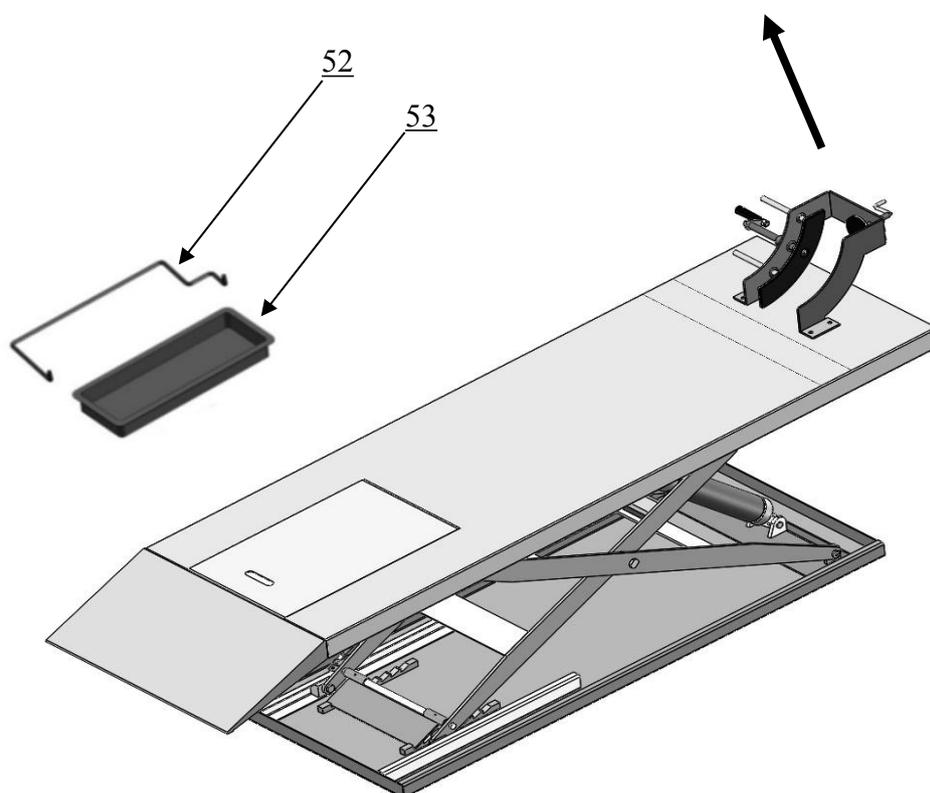
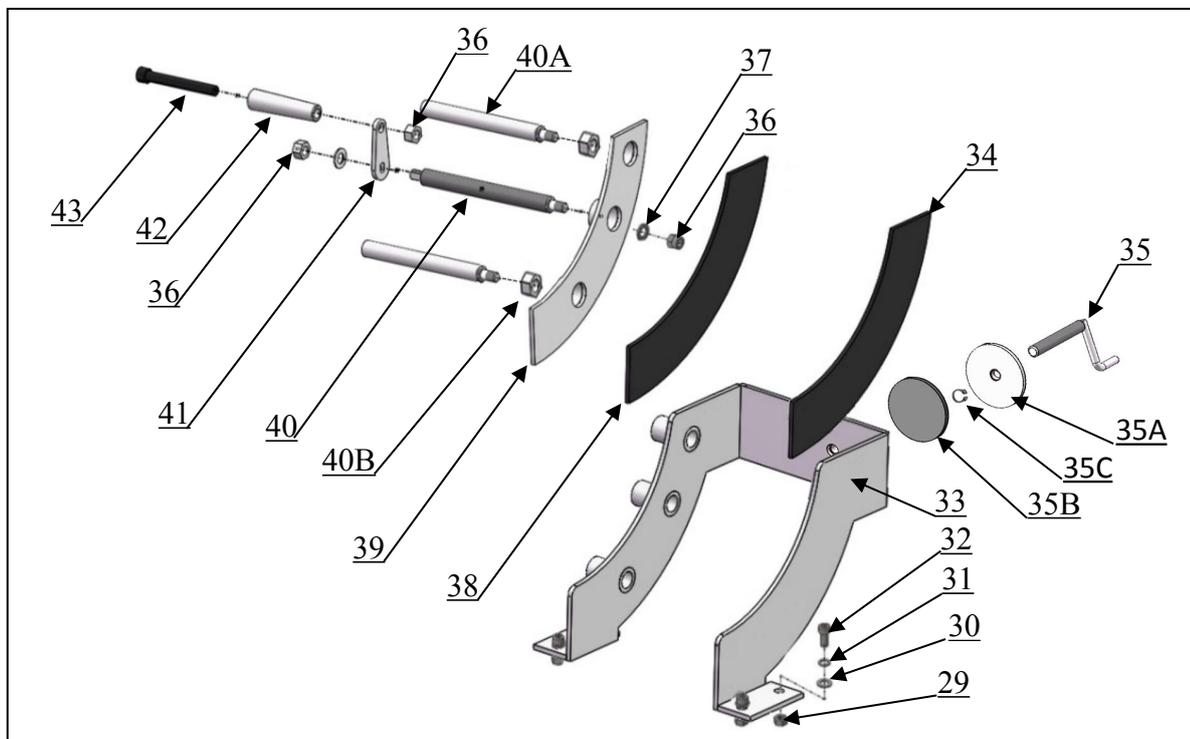


Fig.7

D. Install Optional Width Extension Kit(MC001). See Fig.8

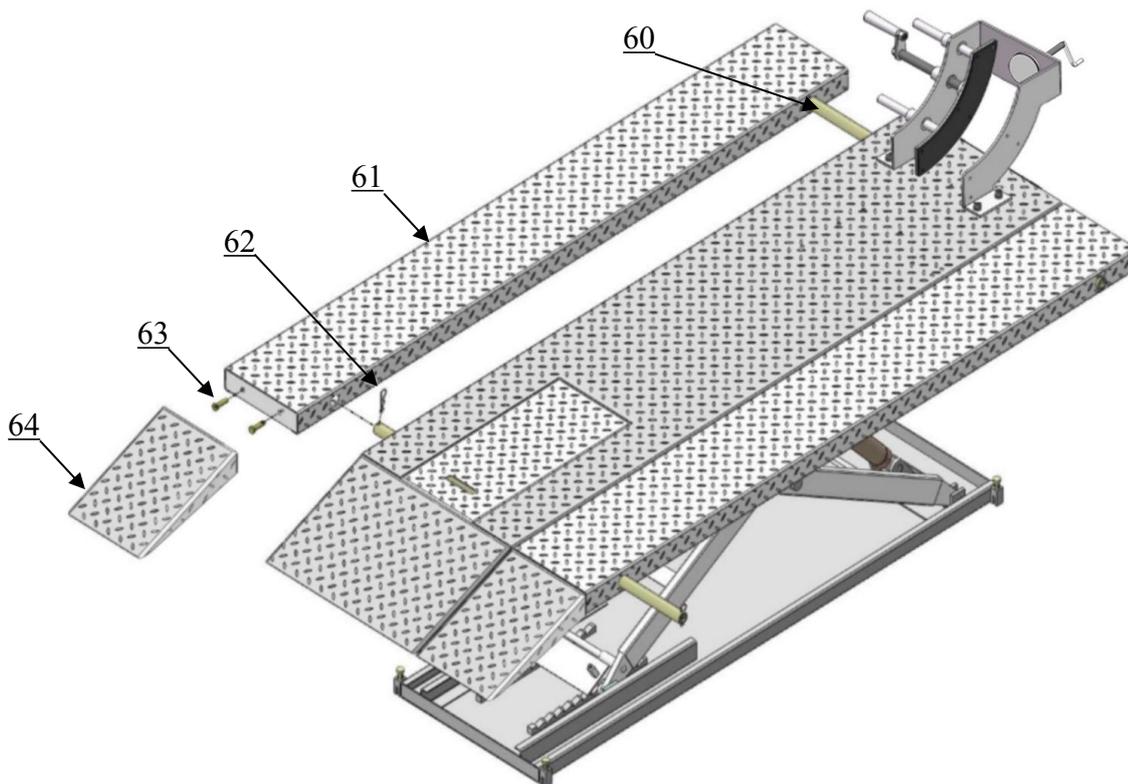


Fig.8

E. Install Optional Length Extension Kit (MC002) . See Fig 9

Note: Connect the length extension kit to one of the wheel vise install holes on the platform.
Move the wheel vise to extension platform.

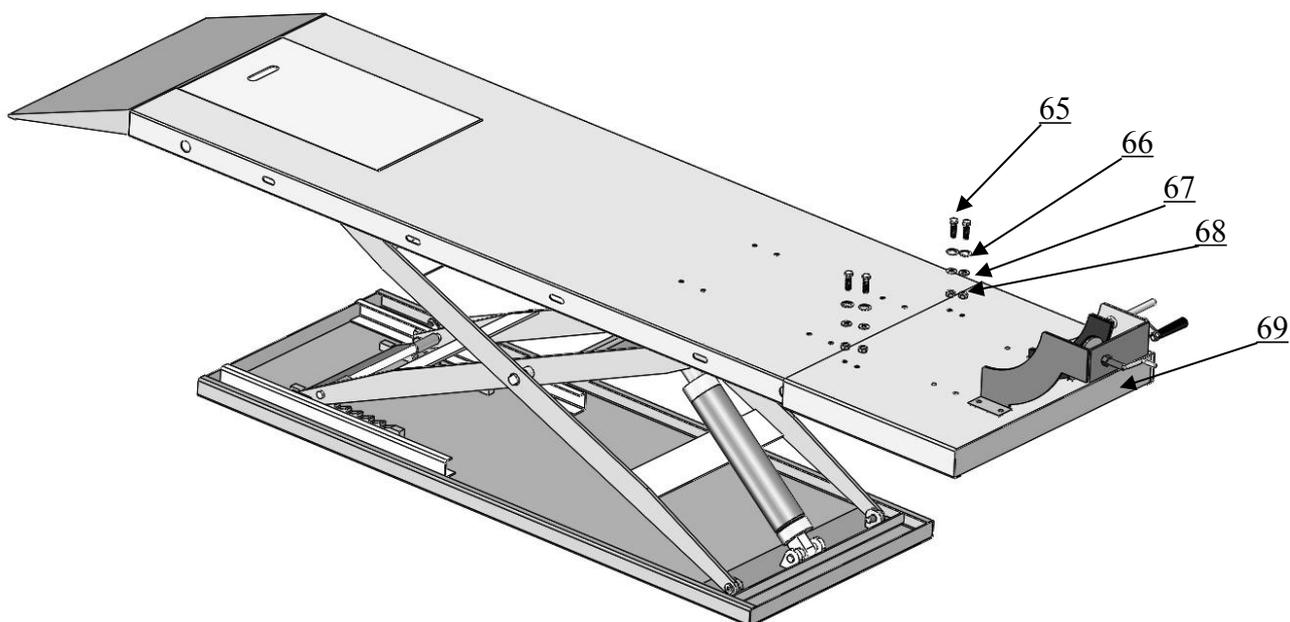


Fig.9

IV. EXPLODED VIEW

MODEL: MC-1200P

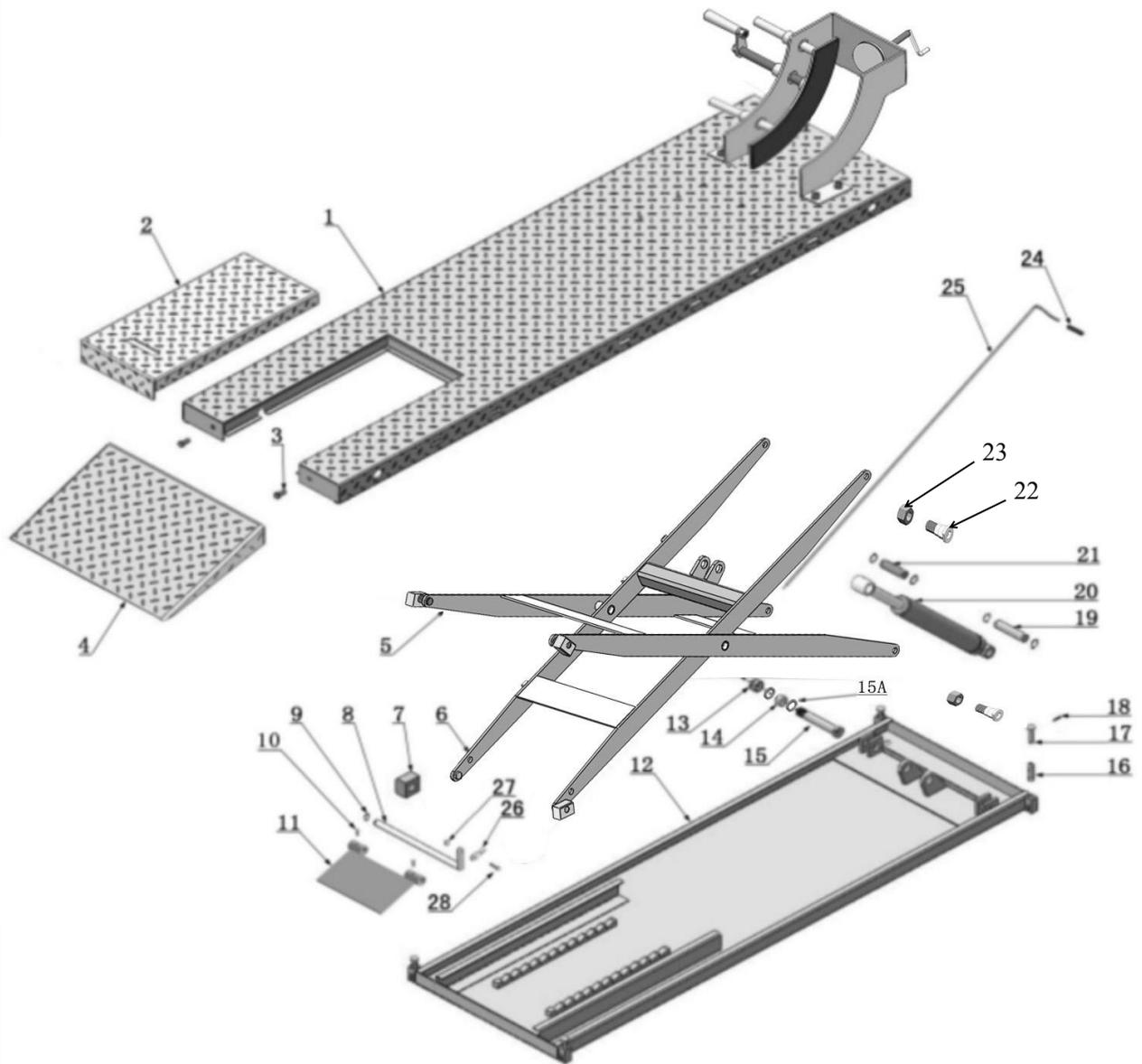


Fig.10

Parts list of Lift

| Item | Part# | Description | QTY. | Note |
|------|-------------|--|------|------|
| 1 | 11720020-01 | Platform Assembly | 1 | |
| 2 | 11720723 | Cover plate of Platform | 1 | |
| 3 | 10217069 | Hex bolt M12*30 | 2 | |
| 4 | 11720122 | Drive-in Ram | 1 | |
| 5 | 11720023-01 | Outer Scissors | 1 | |
| 6 | 11720024-01 | Inside Scissors | 1 | |
| 7 | 1003105001 | Slider 60*42*33 | 4 | |
| 8 | 11720122-01 | Pin for safety device | 1 | |
| 9 | 10206019 | Snap ring ϕ 19 | 1 | |
| 10 | 10640050 | Socket bolt M6*10 | 2 | |
| 11 | 11720026-01 | Safety device | 1 | |
| 12 | 11720027-03 | Base Frame | 1 | |
| 13 | 1003085004 | Self-locking nut M18 | 2 | |
| 14 | 1002011001 | Bronze bush ϕ 22* ϕ 19*14 | 4 | |
| 15 | 11720007-01 | Pin for Scissors ϕ 29*95 | 2 | |
| 15A | 10510053 | Washers Φ 24* Φ 19.5*1.8 | 6 | |
| 16 | 10720003 | Pressure spring ϕ 2*75 | 5 | |
| 17 | 11720012 | Spring fixing pin | 4 | |
| 18 | 10209025 | Hair Pin ϕ 4*25 | 6 | |
| 19 | 11640006A | Cylinder Base Pin ϕ 25*112 | 1 | |
| 20 | 10640007 | Cylinder ϕ 63*290 | 1 | |
| 21 | 11640057 | Pin for Cylinder Connecting ϕ 25*88 | 1 | |
| 22 | 1103082011A | Pin | 1 | |
| 23 | 650024 | Nylok Nut M16 | 4 | |
| 24 | 10620136 | Rubber tube ϕ 10*45 | 1 | |
| 25 | 11720111-01 | Connecting pin for safety lock | 1 | |
| 26 | 11720110 | Connecting sleeve | 1 | |
| 27 | 10420018 | Self locking nut M6 | 1 | |
| 28 | 10720102 | Socket bolt M6*18 | 1 | |
| 29 | 10209021 | Hex nut M10 | 4 | |
| 30 | 10209022 | Washer ϕ 10 | 4 | |
| 31 | 10209039 | Lock Washer ϕ 10 | 4 | |
| 32 | 10720002 | Socket bolt M10*25 | 4 | |
| 33 | 1103083015 | Wheel vise fixing seat | 1 | |
| 34 | 1103083011 | Support plate (Left) | 1 | |
| 35 | 1103083022 | Positioning adjustment screw rod | 1 | |
| 35A | 1103083019 | Positioning plate | 1 | |
| 35B | 1003083002 | Rubber pad 90*90*5 | 1 | |
| 35C | 10630032 | Snap ring ϕ 12 | 1 | |
| 36 | 10206023 | Self Locking Nut M12 | 3 | |
| 37 | 10206006 | Washer ϕ 12 | 6 | |

| Item | Part# | Description | QTY. | Note |
|------|------------|--|------|------|
| 38 | 1103083010 | Support plate (Right) | 1 | |
| 39 | 1103083016 | Wheel vise moving board | 1 | |
| 40 | 1103083012 | Adjusting Pin | 1 | |
| 40A | 1103083009 | Guide Pillar | 2 | |
| 40B | 10209066 | Hex Nut M16 | 2 | |
| 41 | 1103083007 | Handle Connecting Board | 1 | |
| 42 | 1103083017 | Control Handle | 1 | |
| 43 | 10410040 | Socket Bolt M12*110 | 1 | |
| 44 | 10420245 | Straight fitting J0065 G3/8-19(M)*3/8NPT(F) | 1 | |
| 45 | 10420244 | Straight fitting J0064 1/4NPT-18(M)*G3/8-19(M) | 1 | |
| 46 | 10420119 | Straight fitting 3/8NPT(M)*1/4JIC(M) | 1 | |
| 47 | 10440042 | Oil Hose 1/4*2550mm | 1 | |
| 48 | 10209059 | Anchor bolt 3/4*5-1/2 | 4 | |
| 49 | 10720013 | Cable L=1120mm | 1 | |
| 50 | 10720014 | Securing belt (Optional) | 1 | |
| 51 | 10720500 | Parts box | 1 | |
| 52 | 11720100 | Tool Tray Support | 1 | |
| 53 | 10206156 | Tool tray | 1 | |
| 54 | 86010782 | Wheel vise assy. | 1 | |
| 55 | 11630103 | Straight fitting J0020 1/4NPT(M)*1/4NPT(F) | 1 | |
| 56 | 11720114 | Balance valve(0.7) | 1 | |
| 57 | 10600032 | Air pump | 1 | |
| 58 | 10420119 | Straight Fitting 3/8NPT(M)*1/4JIC(M) | 1 | |
| 59 | 10420146 | Straight fitting for air line | 1 | |
| | | Optional: Width extension kits (MC001) | | |
| 60 | 10720036 | Connecting pin ϕ 19*1382 | 2 | |
| 61 | 10720035 | Width extension platform | 2 | |
| 62 | 11209012 | Hair pin ϕ 3.2 | 4 | |
| 63 | 10217069 | Hex bolt M12*30 | 4 | |
| 64 | 11720034 | Width extension drive-in ramp | 2 | |
| | | Optional: Length Extension kits (MC002) | | |
| 64 | 10209126 | Hex bolt M10*25 | 4 | |
| 66 | 10209039 | Lock Washer ϕ 10 | 4 | |
| 67 | 10209022 | Washer ϕ 10 | 4 | |
| 68 | 10209021 | Hex nut M10 | 4 | |
| 69 | 11720062 | Extension platform | 1 | |

4.1 Cylinder Exploded View (10640007)

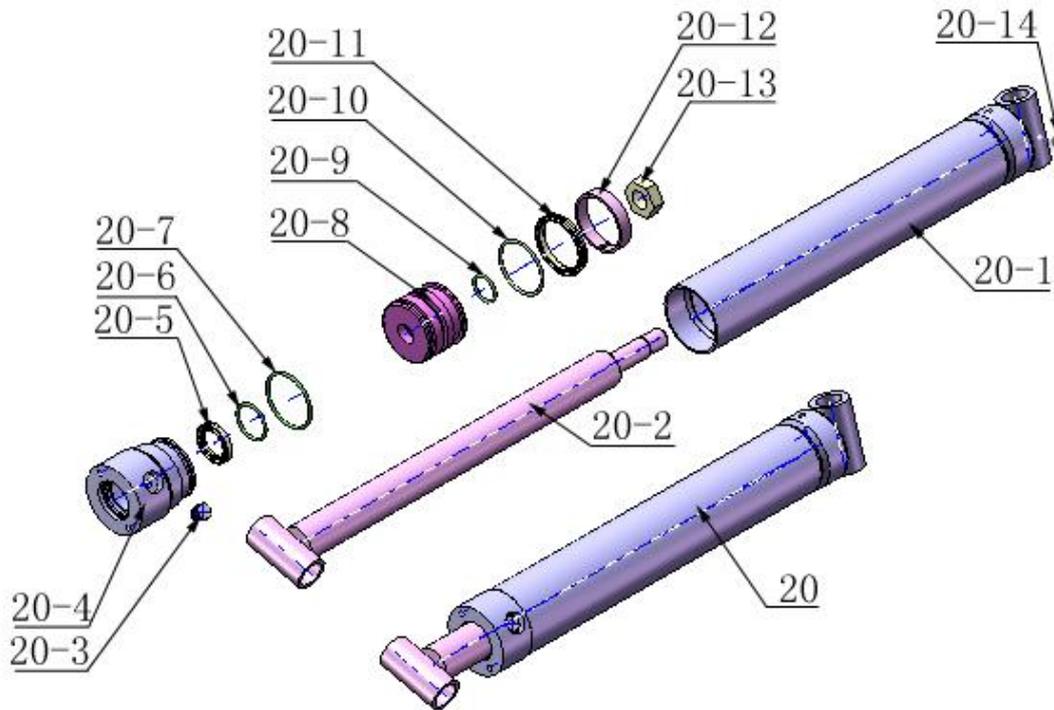


Fig.11

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 | |

V. TEST RUN

1. Install anchor bolts. (see Fig.12) . Install the anchor bolts to fix the machine after installing.

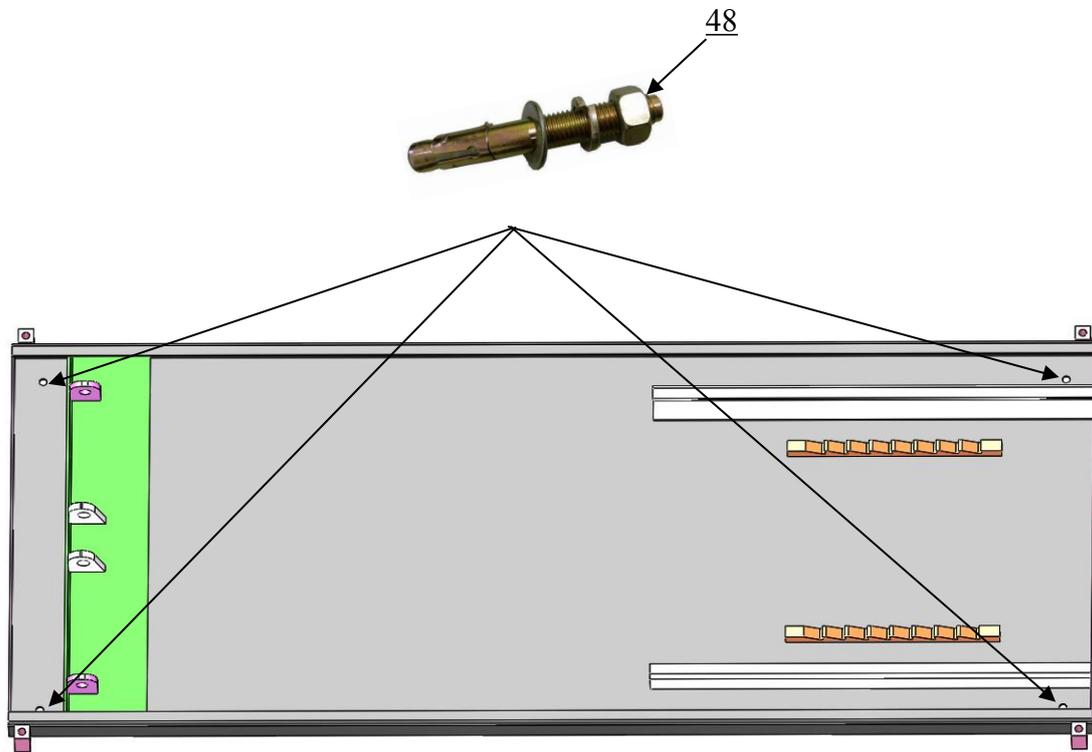
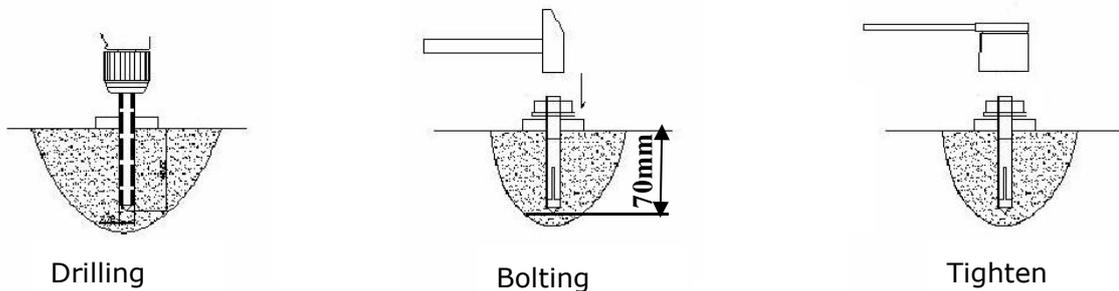


Fig.12

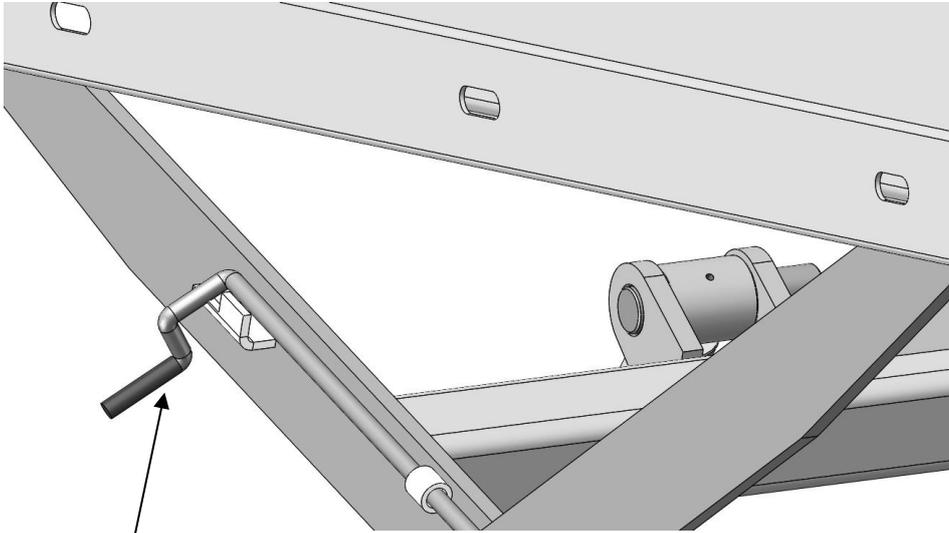
Note: Twisting force is 150N.m for fixing the anchor bolt, knock the anchor bolt into the ground at least 70mm.

Steps:



2. Adjust height of safety device

Rise the lift to the highest position (**See Fig.13**), rotating the safety lock handle according to the direction of arrow. Loosen the screw of the safety device by spanner, lift up the safety lock plate from the rack about 15-20mm (**See Fig.14**), then tighten the fixing screw by spanner.



Safety handle

Fig.13

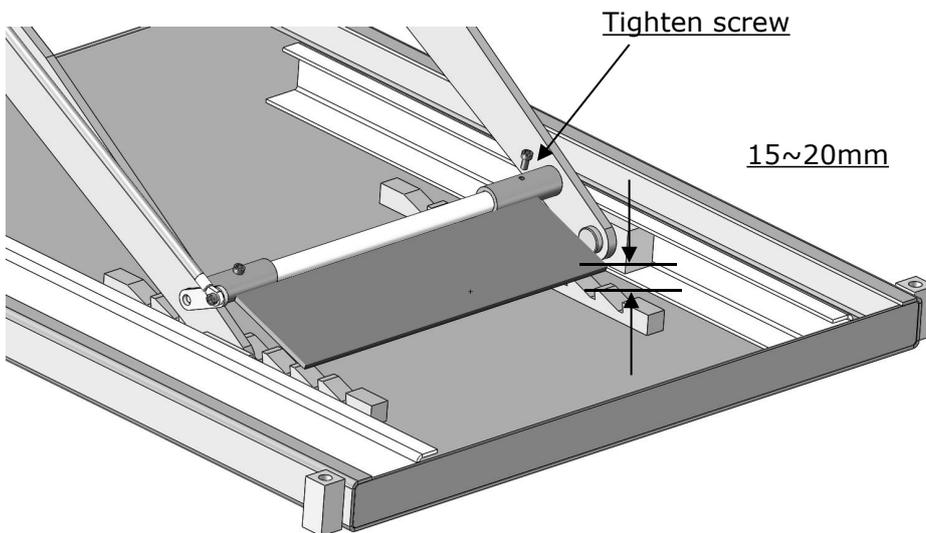


Fig.14

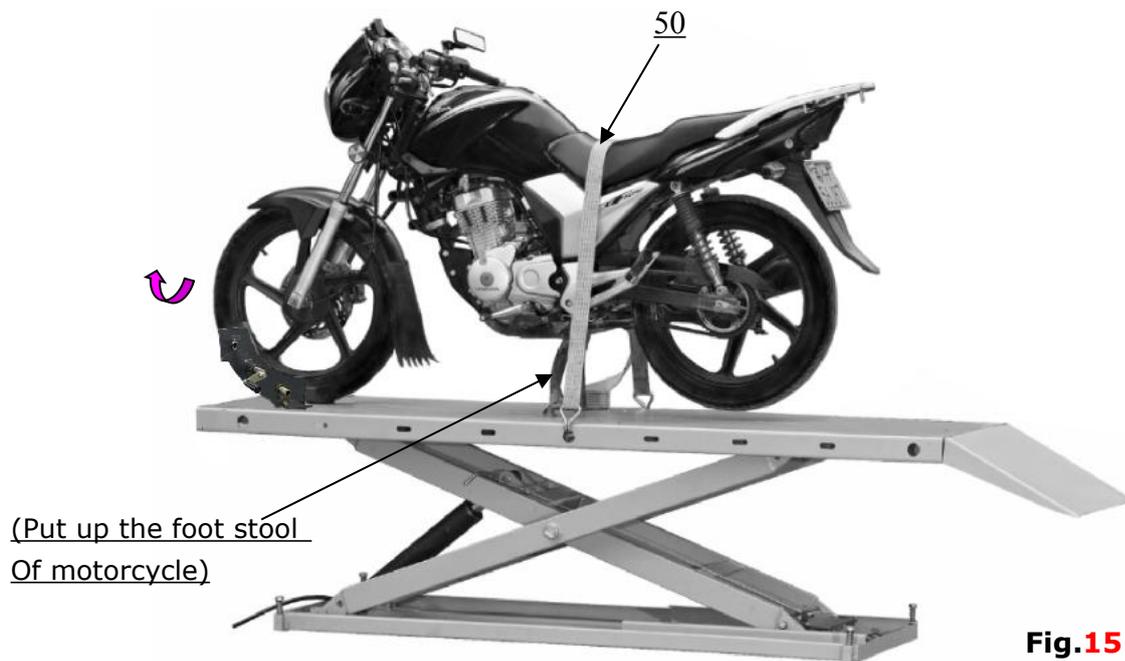
VI. OPERATION INSTRUCTIONS

1. Install well the oil hose between cylinder and pneumatic hydraulic pump, connected the wire, the motorcycle lift can be operated.

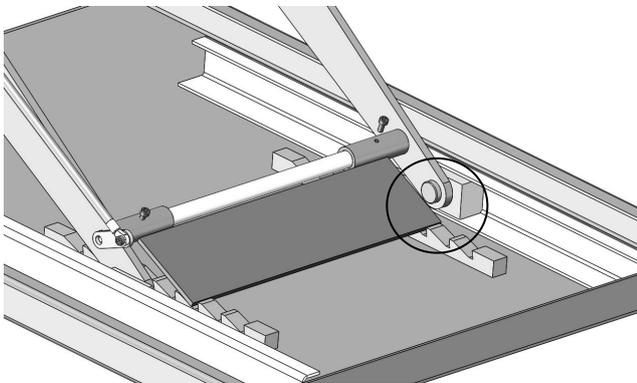
2. Rise up the lift without motorcycle for testing.

3. To lift motorcycle

Lower the lift to the lowest position, loosen the wheel vise. Move the motorcycle to the platform, put the front wheel into the wheel vise, set well the motorcycle. Put up the foot stool of the motorcycle. Rotated handle to clamp the wheel. Tighten the securing belt. Make sure the wheel is tightened and the securing belt is fixed before using. (See Fig.15)

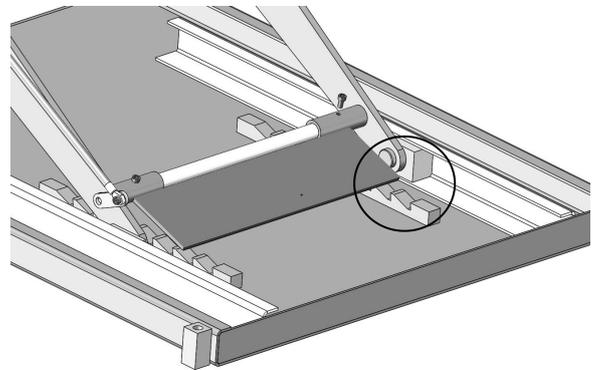


4. **To lower the lift:** Rise the lift few seconds. Rotate the safety lock handle downward (**see Fig.16**) to release the safety device. After the safety device is released (**see Fig.17**), press **DOWN** button to lower the lift.



Safety device is locked

Fig.16



Safety device is released

Fig.17

VII. MAINTENANCE SCHEDULE

Monthly maintenance:

1. Lubricate all moving parts with lubricant(see Fig.18).

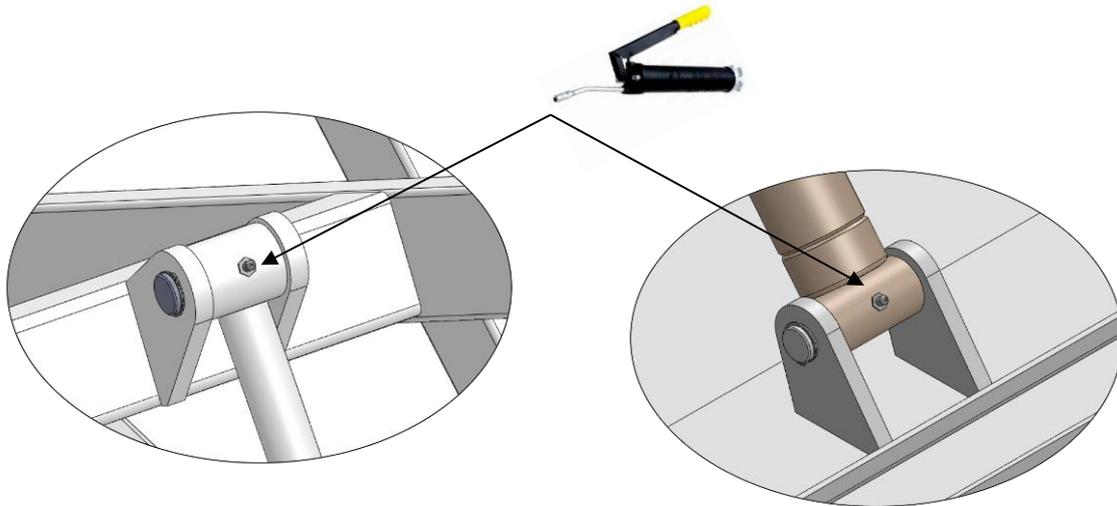


Fig.18

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

Oil cylinder maintenance:

In order to extend the service life of the oil cylinder, please operate according to the following requirements.

1. Recommend to use N46 anti-wear hydraulic oil.
2. The hydraulic oil of the lifts should be replaced regularly during using. Replace the hydraulic oil 3 months after the first installation, Replace the hydraulic oil once a year afterwards.
3. Make at least one full trip raising and lowering per day. For exhausting the air from the system, which could effectively avoid the corrosion of the cylinder and damage to the seals caused by presence of air or water in the system.
4. Protect the outer surface of the oil cylinder's piston rod from bumping and scratching, and timely clean up the debris on the oil cylinder dust-ring and the piston rod.

VIII.TROUBLE SHOOTING

| NO | TROUBLE | CAUSE | REMEDY |
|----|-----------------------|---------------------------------------|---------------------------|
| 1 | Lift does not stay up | 1. Pump does not work | 1. Replace or repair Pump |
| 2 | Lift rises slowly | 1. Oil line is jammed | 1.Clean the oil line |
| | | 2. Pump Insufficient air pressure | 2. Check air pressure |
| | | 3. Overload lifting | 3. Check load |
| 3 | Lift cannot lower | 1. Safety device are not in activated | 1.Re-operation |
| | | 2.Pump in damage | 2.Replace Pump |
| 4 | Lift cannot raise | 1.Pump Insufficient air pressure | 1. Check air pressure |
| | | 2.Pump in damage | 2. Replace Pump |

VIII. Lift disposal

When the car lift cannot meet the requirements for normal use and needs to be disposed, it should follow local laws and regulations.



Manual Part No.: 72267701

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