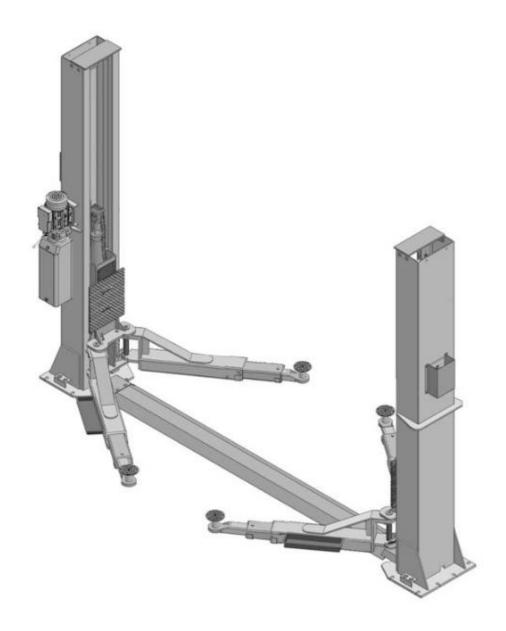


## Installation And Service Manual



TWO POST LIFT Model: BP-12

## CONTENTS

| Product Features and Specifications1 |
|--------------------------------------|
| Installation Requirement3            |
| Steps of Installation5               |
| Exploded View19                      |
| Test Run25                           |
| Operation Instruction27              |
| Maintenance27                        |
| Trouble Shooting29                   |
| Lift Disposal29                      |

### I. PRODUCT FEATURES AND SPECIFICATIONS FLOORPLATE CHAIN-DRIVED MODEL FEATURES MODEL BP-12 (See Fig.1)

· 12000lbs lifting capacity, compact design small footprint.

 $\cdot$  Dual hydraulic cylinders is designed and manufactured according to standard, utilizing imported seals

·Adjustable column width, two optional column width installation 118 1/8" or 123 1/2"

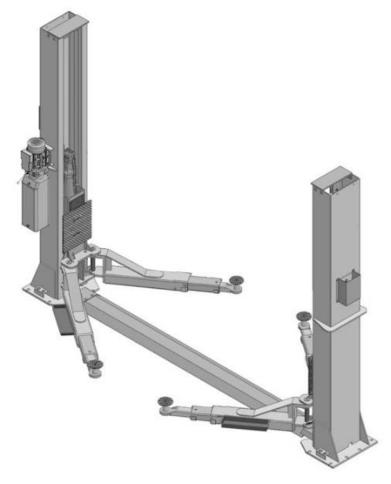
 $\cdot$  Stackable adapters 1.5", 2.5", 5" can be adjusted the minimum pad height in a short time.

. Lifting arm lock automatic release device, high strength moon gear for making the lift more reliable and safety.

· Self-lubricating UHMW Polyethylene sliders and bronze bush.

· Single-point safety release, and dual safety design.

 $\cdot \notin$  9.5 mm cable using for the lift make it more safety and more reliable.



#### MODEL BP-12 SPECIFICATIONS

| Model | Style                      | Lifting<br>Capacity | Lifting<br>Time | Lifting Height  | Overall<br>Height | Overall Width        | Minimum<br>Pad Height | Motor |
|-------|----------------------------|---------------------|-----------------|-----------------|-------------------|----------------------|-----------------------|-------|
| BP-12 | Floor-plate<br>Chain-drive | 12000lbs            | 55S             | 73 1/4″~82 1/4″ | 122 1/2″          | 145 3/8"<br>150 3/4" | 4 3/4″~13 3/4″        | 2.0HP |

Arm Swings View

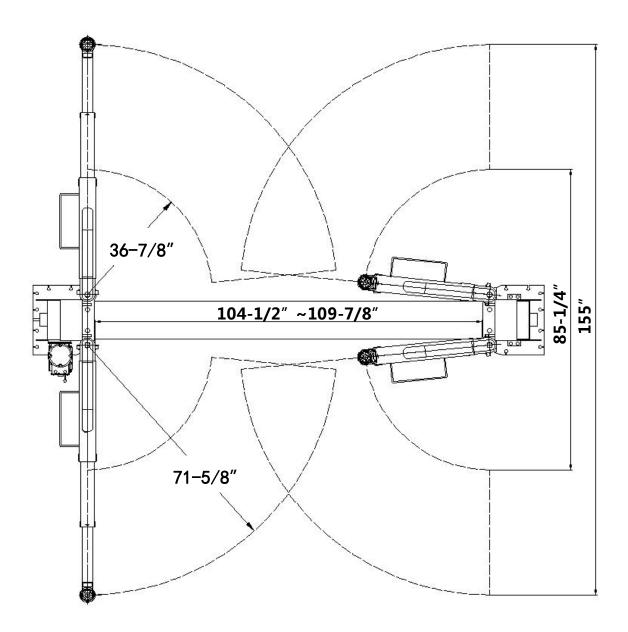


Fig.2

### II. INSTALLATION REQUIREMENT A. TOOLS REQUIRED

✓ Rotary Hammer Drill (Φ19)



✓ Hammer



✓ Level Bar



✓ English Spanner (12")



✓ Ratchet Spanner With Socket (28<sup>#</sup>)



► Wrench set (10<sup>#</sup>, 13<sup>#</sup>, 14<sup>#</sup>, 15<sup>#</sup>, 17<sup>#</sup>, 19<sup>#</sup>, 24<sup>#</sup>, 27<sup>#</sup>)



- ✓ Carpenter's Chalk
  ✓ Screw Sets
- ✓ Tape Measure (7.5m)



✓ Pliers



✓ Socket Head Wrench (6<sup>#</sup>)



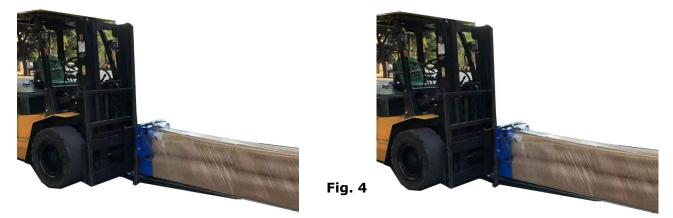
▶ Lock Wrench



Fig. 3

B. Equipment storage and installation requirements. The equipment should be stored or installed in a shady, normal temperature, ventilated and dry place.

C.The equipment should be unload and transfer by forklift.



### D. SPECIFICATIONS OF CONCRETE (See Fig. 5)

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 be thickness 5" minimum and without reinforcing steel bars, and must be dried completely before the installation.
- 2. Concrete must be in good condition and must be of test strength 3,500psi minimum.
- 3. Floors must be level and no cracks.

### **E. POWER SUPPLY**

The electrical source must be 2.0HP minimum. The source cable size must be 2.5mm<sup>2</sup> and in good condition of contacting with floor.

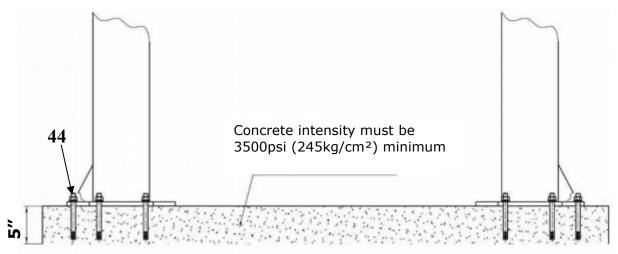


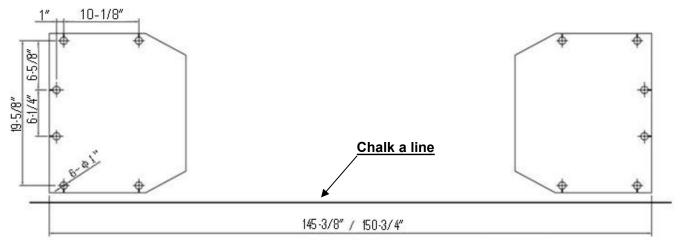
Fig. 5

### **III. STEPS OF INSTALLATION**

### A. Location of Installation

Check and insure 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 baseplate (See Fig. 6).



### C. Check the parts before assembly



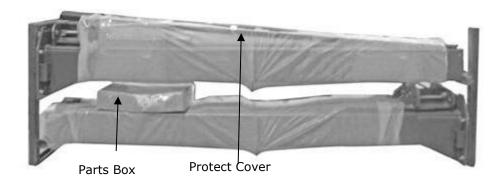
1. Packaged lift and hydraulic power unit (See Fig. 7)



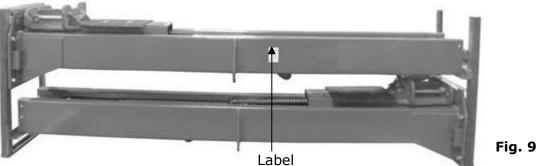
2. Move the lift aside with a fork lift or hoist, and open the outer packing carefully, take off the parts from upper and inside the column, take out the parts box, check the parts according to the shipment parts list (See Fig. 8).



Shipment Parts list



3.Take out the parts upper and inside the column, move them beside the installation site. See Fig.9



4. Loose the screws of the upper package stand, take off the upper column and remove the package stand.

5. Move aside the parts and check the parts according to the shipment parts list (See Fig. 10,11)

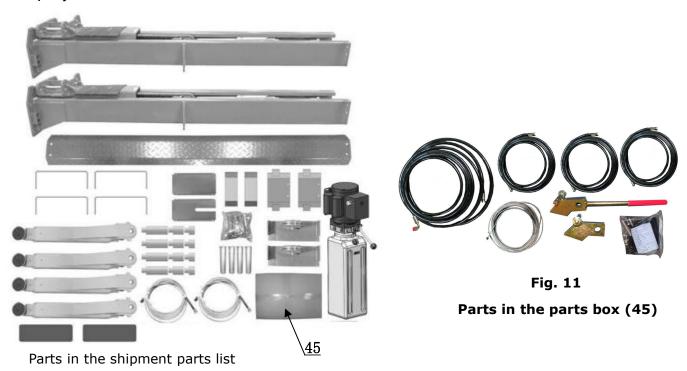


Fig. 10

6. Open the parts bag and check the parts according to parts box list (See Fig. 12).

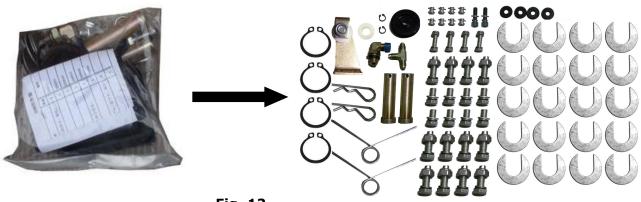
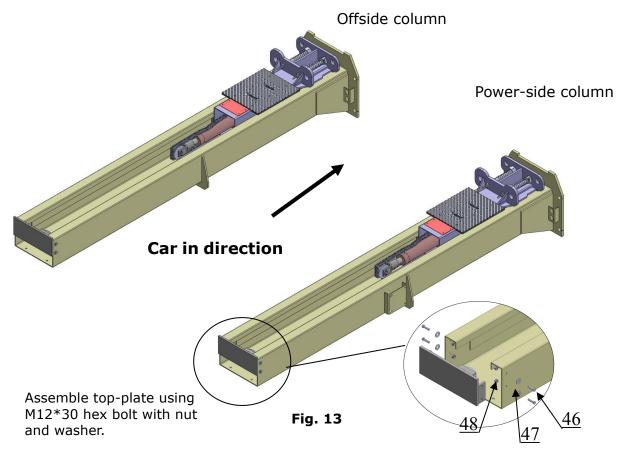


Fig. 12

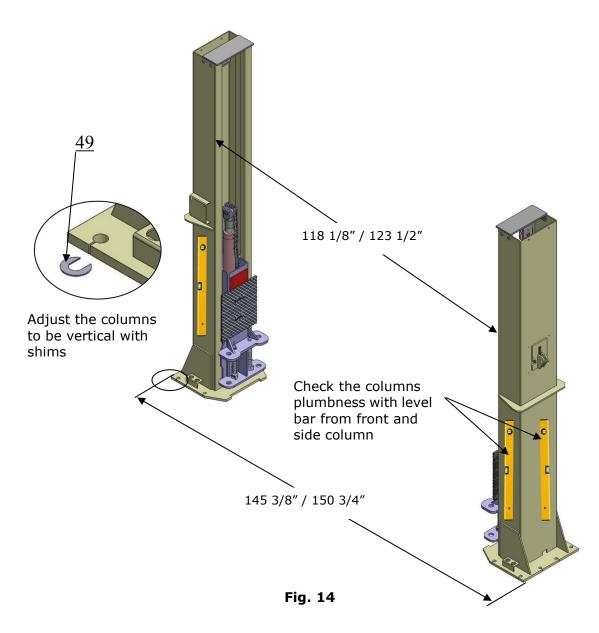
D. Lay down two columns on the installation site parallelly, position the power-side column according to the actual installation site. Usually, it is suggested to install Power side column on the front-right side from which vehicles are driven to the lift. Then install the top plate (See Fig. 13).



### E. Position columns and install anchor bolts (See Fig. 14)

Check the columns plumbness with level bar, and adjusting with the shims if the columns are not vertical. Anchor bolts should not be tightened.

### Note: Lifts are designed to two level width, install according to customer's needs



### F. Install anchor bolts

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

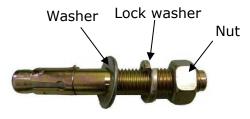
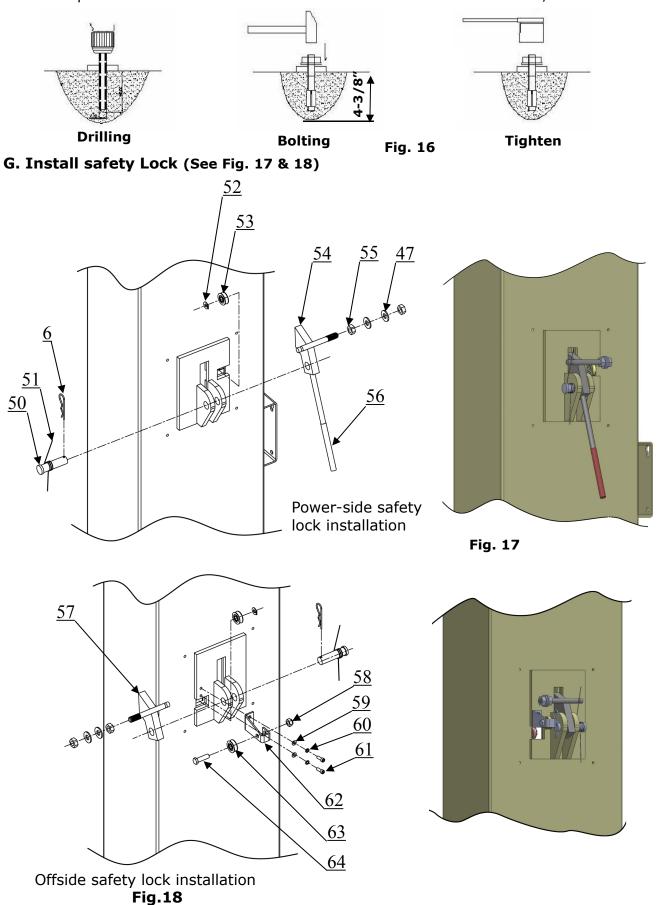


Fig. 15

2. Using the prescribed rotary hammer drill, drill all the anchor holes and install the anchor bolts. Then tighten the anchor bolts (See Fig. 16).

Note: Torque of Anchors is 150N.m. Minimum embedment of Anchors is 4-3/8".



H. Lift the carriages up by hand and make them be locked at the same level (See Fig.19).

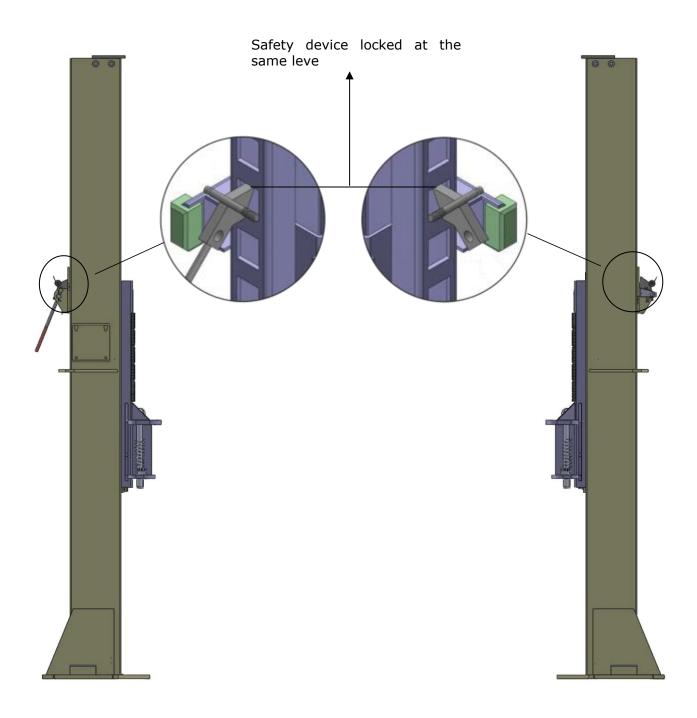
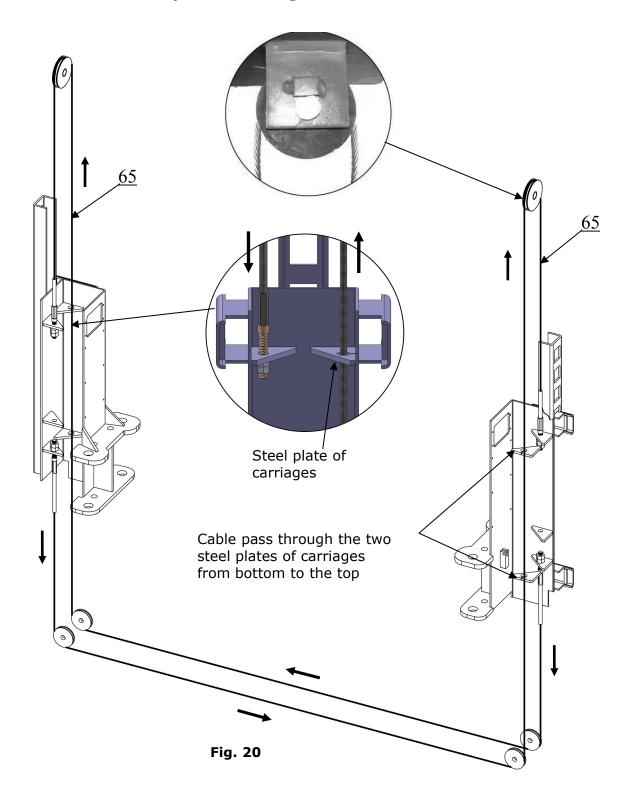


Fig.19

### I. Connecting cables (See Fig. 20)

1. Select the width of the foundation according to step E (**Fig.14**) and select the width of the foundation size 150-3/4" to install the cable (**see Fig.20**)

## Note: Cable pass through from one carriage to another must be passed through the hole of the bottom steel plate of carriages



- Select the width of the foundation according to step E (Fig.14) and select the width of the foundation size 145-3/8" vzto install the cable.(Fig.21&Fig22)
- 2.1. Cable go through from bottom to the top, tighten the two cable nuts when it pass through the opening of the carriage. (Fig.21)

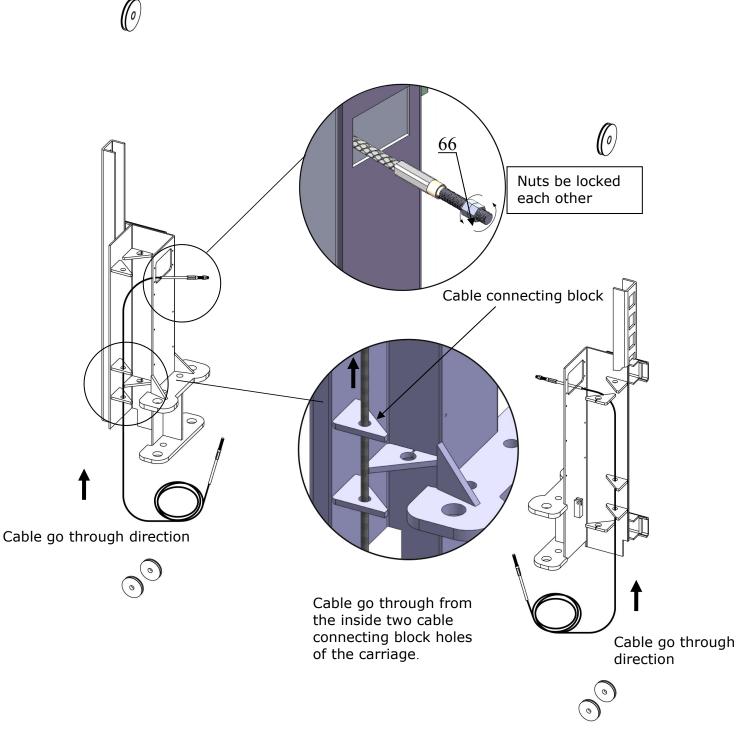


Fig. 21

2.2 Foundation size 145 3/8" cable installation diagram.

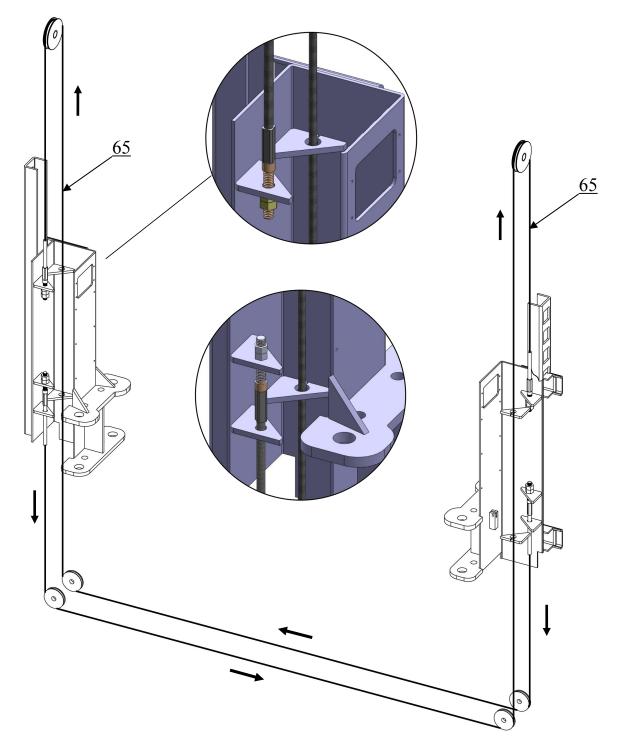


Fig. 22

### J. Install safety cable, see Fig.23

**NOTE:** 1. Assemble safety cable from offside safety assy.

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

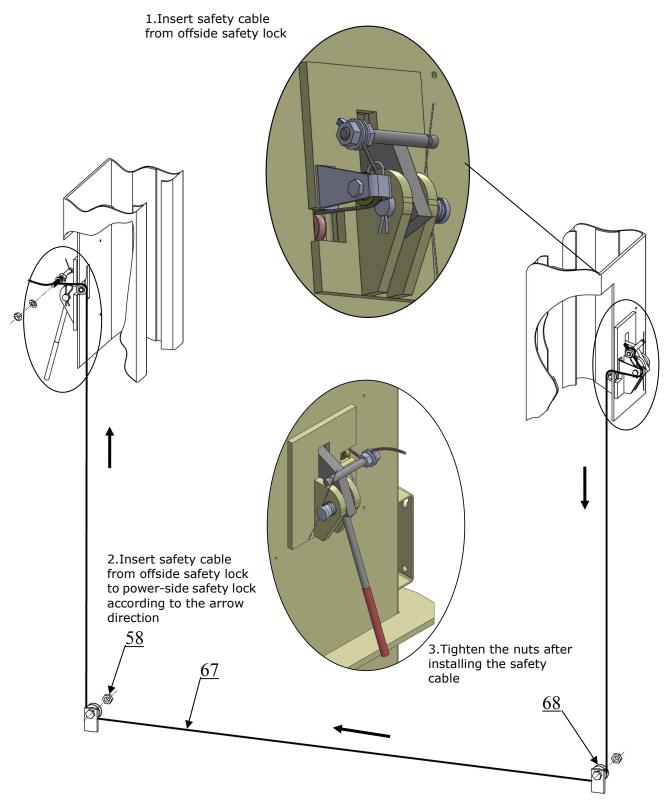
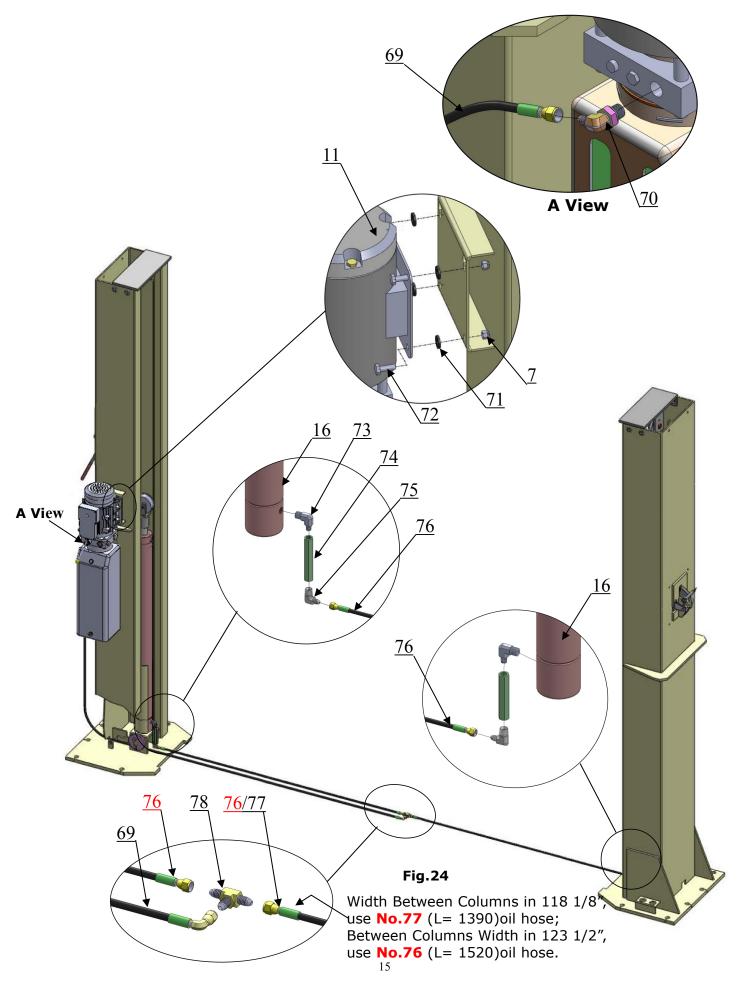


Fig.23

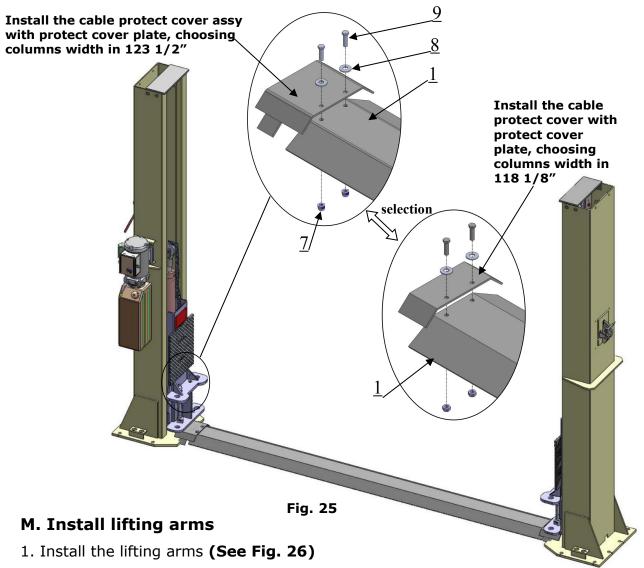
### K. Install power unit and oil hose (See Fig. 24)



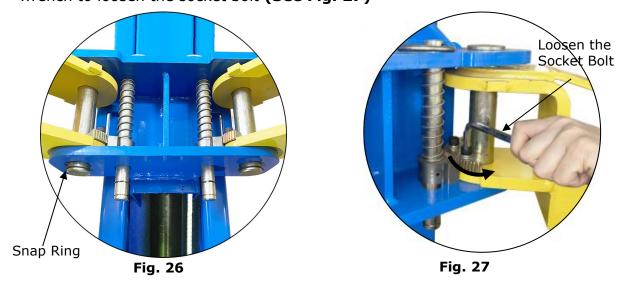
### L. Install protect cover (see Fig.25)

Note: Install cable protect cover or cable protect cover assy with connecting protect

cover according to the foundation width of step 5

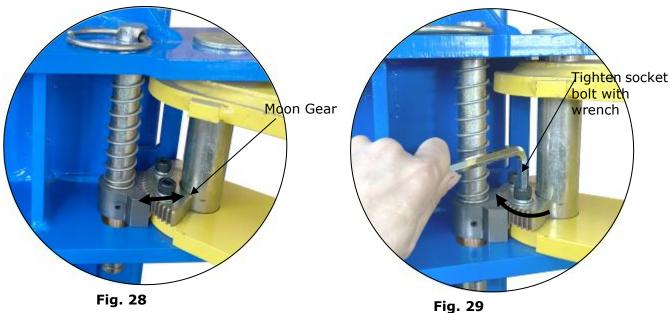


2. Lowing the carriages down to the lowest position, then use the 10# socket head wrench to loosen the socket bolt (See Fig. 27)



3. Adjust the moon gear as arrow direction (See Fig. 28).

4. Adjust the moon gear and arm lock to make it to be meshed, then tighten bolts of arm lock (See Fig. 29).



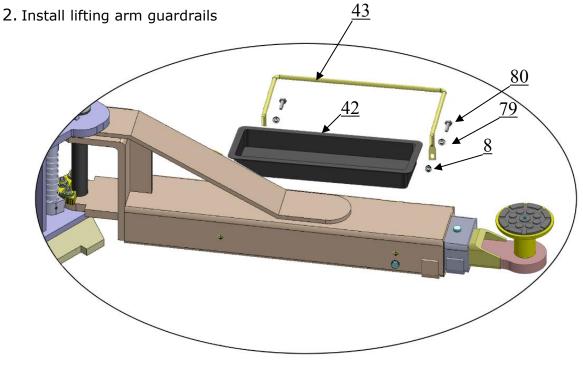


Fig. 30

### M. Tighten all the hydraulic fittings, and fill the reservoir with hydraulic oil

Note: In consideration of Hydraulic Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.

# O. Install Electrical System Connect the power source on the data plate of power unit.

**Note:** For the safety of operators, the power wiring must contact the floor well.

### Single phase motor

1. Circuit diagram (See Fig.31)

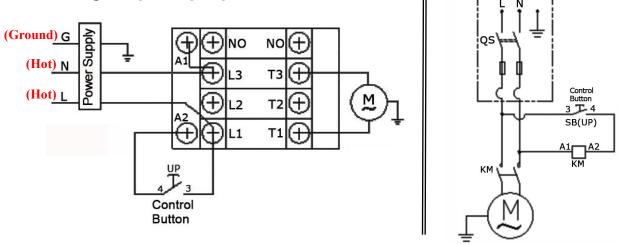


Fig. 31

### 2. Connection step (See Fig. 32)

Connecting the two power supply wires to terminals of AC contactor marked L1, L3 respectively.

Earth wire( yellow and green wire) is connected with the earth wire terminal of the motor

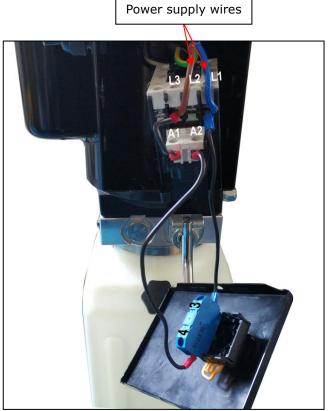
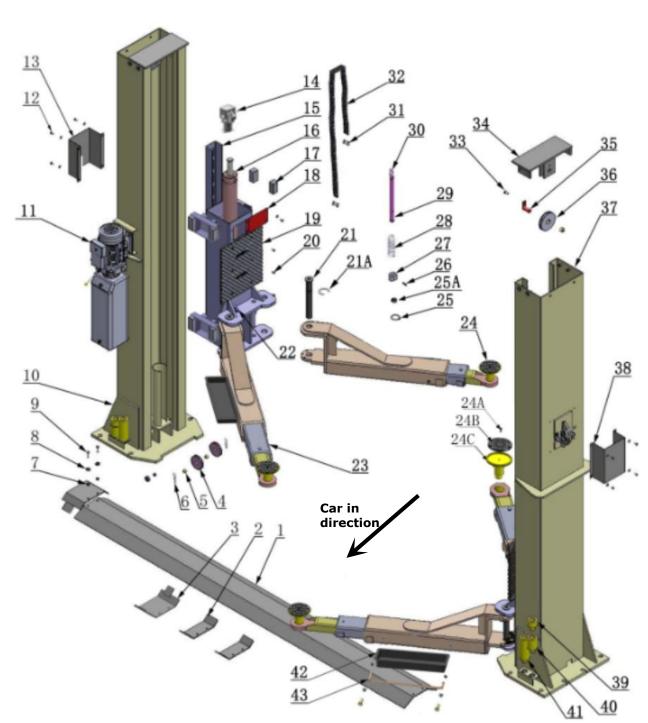


Fig. 32

### **IV. EXPLODED VIEW**



Model BP-12

Fig. 33

#### Part# Description Note Item Qty. Protect Cover Cable Protect Cover Cable Protect Cover Assy Top Pulley Bronze Bush For Pulley Elastic Pin $\phi$ 3.2 Self locking Nut M8 Lock Washer $\phi 8$ Hex Bolt M8\*20 Power-side Column Power Unit Cap Head Bolt M6\*8 Main Safety Block Cover Chain pulley support assy. 11207009A Lifting carriage Cylinder $\phi75*870$ Slider Block Carriage Plastic Cover **Rubber Protect Block** Screw M6\*16 11217047B Lifting arms Pin 21A Snap Ring φ38 11217046C Arm Lock bar (Right)φ30\*323 Lifting Arm Assy. 10217114A Rubber Pad Assy 24A Socket Bolt M6\*16 24B Rubber Pad 24C **Rubber Pad Frame** 11680030C Snap Ring $\phi$ 30 25A Washer φ39\*4\*18 10206036-01 Elastic Pin φ6\*45 Rack M1.5\*72\*24 10217045A-01 Compressed spring $\varphi$ 31\* $\varphi$ 36\* $\varphi$ 2.5 (L=214.5) Arm Lock bar (left) φ30\*323 11217046B Rack Handle ring-pull 10201010A Connector BL646 Chain BL646 Hex Bolt M10\*15 Top Plate Assy Base pulley pin

#### PARTS LIST FOR Model BP-12

| Item Part# |             | Description                         | Qty. | Note |
|------------|-------------|-------------------------------------|------|------|
| 36         | 11217036    | Big Pulley                          | 2    |      |
| 37         | 11207054    | Offside column                      | 1    |      |
| 38         | 11207018    | Offside Safety Lock Cover           | 1    |      |
| 39         | 11209051B   | Stackable Adapter(1.5 " )           | 4    |      |
| 40         | 11209052B   | Stackable Adapter(2.5 " )           | 4    |      |
| 41         | 11209053B   | Stackable Adapter(5 " )             | 4    |      |
| 42         | 10206156    | Tool Tray (short)                   | 2    |      |
| 43         | 11206154    | Toe guard (short)                   | 4    |      |
| 44         | 10209059    | Anchor bolt 3/4*5-1/2               | 12   |      |
| 45         | 10207500A   | Parts Box                           | 1    |      |
| 46         | 10217069    | Hex Bolt M12*30                     | 8    |      |
| 47         | 10206006    | Washer φ12                          | 12   |      |
| 48         | 10206023    | Self locking Nut M12                | 8    |      |
|            | 10201090    | Shim (1mm)                          | 10   |      |
| 49         | 10620065    | Shim (2mm)                          | 10   |      |
| 50         | 11206002    | Safety Block Pin                    | 2    |      |
| 51         | 10209007A   | Torsional spring                    | 2    |      |
| 52         | 10209010    | Snap Ring φ10                       | 2    |      |
| 53         | 10209011    | Plastic Small Pulley                | 2    |      |
| 54         | 11207019    | Power-side Safety Lock              | 1    |      |
| 55         | 10206023A   | Hex Nut M12                         | 4    |      |
| 56         | 10206003A   | Handle Gun Cover                    | 2    |      |
| 57         | 11207020    | Offside Safety Lock                 | 1    |      |
| 58         | 10209056    | Self locking Nut M10                | 3    |      |
| 59         | 10420045    | Lock washer φ6                      | 14   |      |
| 60         | 10209149    | Spring Washer φ6                    | 2    |      |
| 61         | 10207021    | Socket Bolt M6*12                   | 1    |      |
| 62         | 11217029    | Pulley Support                      | 1    |      |
| 63         | 10206009    | Plastic small Pulley                | 1    |      |
| 64         | 10209046    | Hex Bolt M10*35                     | 1    |      |
| 65         | 10207022    | Cable Assy. L=8400mm                | 2    |      |
| 66         | 10209066    | Cable Nut M16                       | 8    |      |
| 67         | 10206065    | Safety cable Assy. L=7450mm         | 1    |      |
| 68         | 10209049    | Plastic black pulley                | 2    |      |
| 69         | 10207023-01 | Oil hose 1/4*3210mm(straight + 90°) | 1    |      |
| 70         | 10209060    | 90° Fitting                         | 1    |      |
| 71         | 10209004    | Rubber ring φ8*φ20*3                | 4    |      |
| 72         | 10209003    | Hex bolt M8*25                      | 4    |      |
| 73         | 10207024    | 90° Fitting 3/8NPT(M)*1/4NPT(M)     | 2    |      |
| 74         | 10207035    | Extended Straight fitting L=86mm    | 2    |      |
| 75         | 10420097    | 90° Fitting 1/4NPT(M)*1/4JIC(M)     | 2    |      |

| Item | Part#    | Description                           | Qty. | Note |
|------|----------|---------------------------------------|------|------|
| 76   | 10207026 | Oil hose 1/4*1520mm(double straight)  | 2    |      |
| 77   | 10207034 | Oil hose 1/4*1390mm (double straight) | 1    |      |
| 78   | 10211016 | T fitting                             | 1    |      |
| 79   | 10209034 | Spring Washer φ8                      | 8    |      |
| 80   | 10201002 | Hex Bolt M8*16                        | 8    |      |

### 4.1 Lifting arm (10207062) exploded view

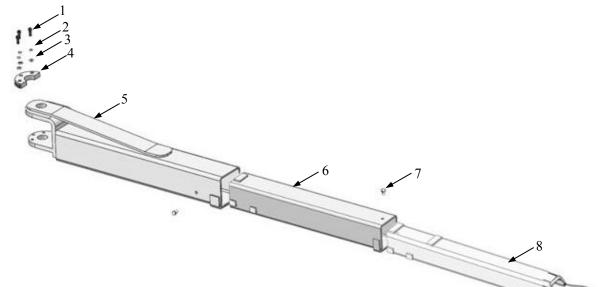
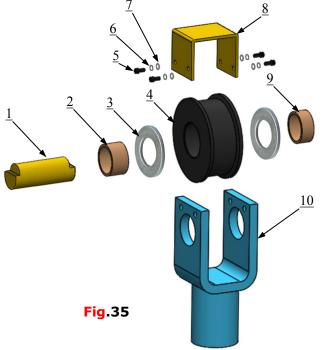


Fig.34

| ltem | Part#      | Description           | QTY. | Item | Part#     | Description         | QTY. |
|------|------------|-----------------------|------|------|-----------|---------------------|------|
| 1    | 1102163005 | Hex bolt M12*48       | 12   | 5    | 11207012A | Outer arm           | 4    |
| 2    | 10420026   | Lock washer $\Phi 12$ | 12   | 6    | 11217337  | Middle arm          | 4    |
| 3    | 10206006   | Washer $\Phi$ 12      | 12   | 7    | 10201149  | Cap Head Bolt M8*12 | 8    |
| 4    | 1102163001 | Moon gear             | 4    | 8    | 11217836  | Inner Arm           | 4    |

4.2 Chain pulley seat assy. (11207681) exploded view :



| Item | Part#     | Description                 | Qty. |
|------|-----------|-----------------------------|------|
| 1    | 11207006  | Pin for Chain Pulley Φ35*93 | 1    |
| 2    | 10420132A | Bronze Bush Ф41.2*Ф35.1*20  | 1    |
| 3    | 11530023  | Washer Ф44*Ф35.5*2          | 2    |
| 4    | 11207007  | Chain Pulley Φ105*50        | 1    |
| 5    | 10430138  | Socket Bolt M6*16           | 4    |
| 6    | 10209149  | Spring Pad Φ6               | 4    |
| 7    | 10420045  | Washer Ф6                   | 4    |
| 8    | 11207693  | Chain limit block           | 1    |
| 9    | 10530042  | Bronze Bush Ф41.2*Ф35.1*28  | 1    |
| 10   | 11207008  | Chain Pulley Seat           | 1    |

### 4.3 Cylinder (10207010) exploded view.

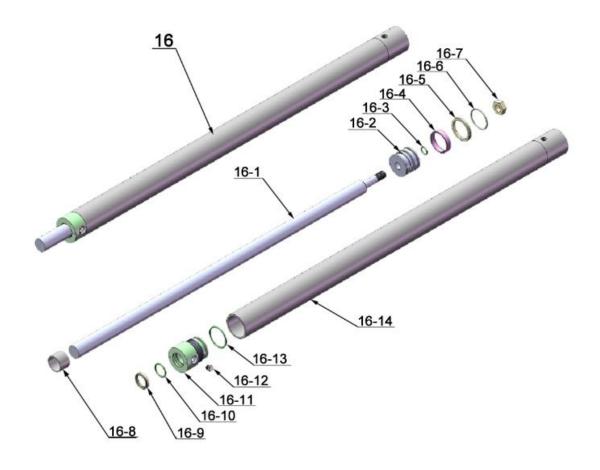
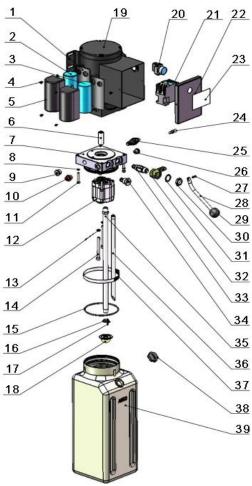


Fig. 36

| Item | Part#    | Description  | Qty. | Item  | Part#    | Description     | Qty. |
|------|----------|--------------|------|-------|----------|-----------------|------|
| 16-1 | 11207027 | Piston Rod   | 2    | 16-8  | 10207029 | Adjustment Tube | 2    |
| 16-2 | 11207028 | Piston       | 2    | 16-9  | 10217078 | Dust Ring       | 2    |
| 16-3 | 10206069 | O-Ring       | 2    | 16-10 | 10520058 | O-Ring          | 2    |
| 16-4 | 10620053 | Support Ring | 2    | 16-11 | 11207030 | Head Cap        | 2    |
| 16-5 | 10620054 | Y-Ring OSI   | 2    | 16-12 | 10201034 | Bleeding Plug   | 2    |
| 16-6 | 10630027 | O-Ring       | 2    | 16-13 | 10207031 | O-Ring          | 2    |
| 16-7 | 10206071 | Hex Nut      | 2    | 16-14 | 11207032 | Bore Weldment   | 2    |

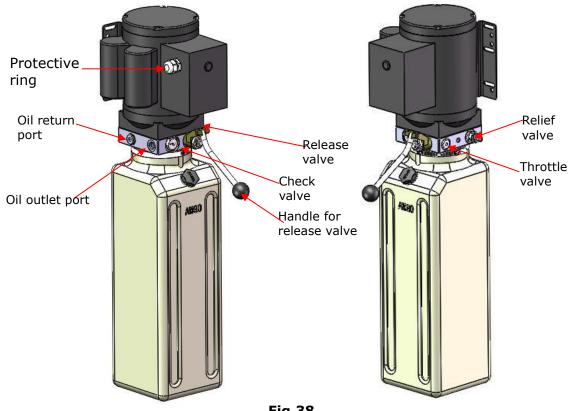
### 4.4 POWER UNIT EXPLODED VIEW(071101)



220V/60HZ Manual Power unit Fig.37

| Item | Part#    | Description                 | Qty. | Item | Part#    | Description                     | Qty. |
|------|----------|-----------------------------|------|------|----------|---------------------------------|------|
| 1    | 81400180 | Rubber Pad                  | 2    | 21   | 41030055 | AC connector                    | 1    |
| 2    | 81400250 | Starting capacitor          | 1    | 22   | 81400287 | Motor terminal box cover        | 1    |
| 3    | 81400200 | Running capacitor           | 1    | 23   | 71111216 | AMGO power unit label           | 1    |
| 4    | 10420148 | Cap Head Bolt with washer   | 4    | 24   | 81400560 | Throttle valve                  | 1    |
| 5    | 81400066 | Cover of Motor Terminal Box | 2    | 25   | 81400266 | Relief valve                    | 1    |
| 6    | 81400363 | Motor Connecting Shaft      | 1    | 26   | 81400284 | Inner hex iron plug             | 1    |
| 7    | 090106   | Manifold block              | 1    | 27   | 10720118 | Hair pin                        | 1    |
| 8    | 10209149 | Washer                      | 4    | 28   | 81400451 | Release valve handle            | 1    |
| 9    | 81400276 | Iron plug                   | 1    | 29   | 10209020 | Plastic ball for release handle | 1    |
| 10   | 81400259 | Red rubber plug             | 1    | 30   | 81400421 | Release valve nut               | 1    |
| 11   | 85090142 | Socket bolt                 | 4    | 31   | 81400422 | Shim                            | 1    |
| 12   | 81400280 | Gear pump                   | 1    | 32   | 81400449 | Valve Seat(low)                 | 1    |
| 13   | 10209034 | Washer                      | 2    | 33   | 070001   | Release Valve                   | 1    |
| 14   | 81400295 | Socket bolt                 | 2    | 34   | 070002   | Check Valve                     | 1    |
| 15   | 81400365 | O ring                      | 1    | 35   | 81400288 | Oil suction pipe                | 1    |
| 16   | 10209152 | Ties                        | 1    | 36   | 81400289 | Oil return pipe                 | 1    |
| 17   | 85090167 | Magnet                      | 1    | 37   | 81400364 | Clamp(stainless steel)          | 1    |
| 18   | 81400290 | Filter                      | 1    | 38   | 81400263 | Oil tank cap                    | 1    |
| 19   | 81400413 | Steel Motor                 | 1    | 39   | 81400275 | Oil tank                        | 1    |
| 20   | 10420070 | Push button                 | 1    |      |          |                                 |      |

### Illustration of hydraulic valve for hydraulic power unit



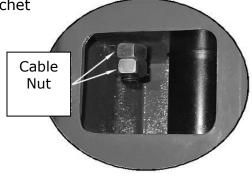


### **V. TEST RUN**

### 1. Adjustment of synchronous cable (See Fig. 39)

Use wrench to hold the cable fitting, meanwhile using ratchet spanner to tighten the cable nut until the two cables are in the same tension.

If the two vehicle carriages do not Synchronized when lifting and lowering, please screw and tighten the cable nut on the lower side carriage.



#### 2. Adjust safety cable

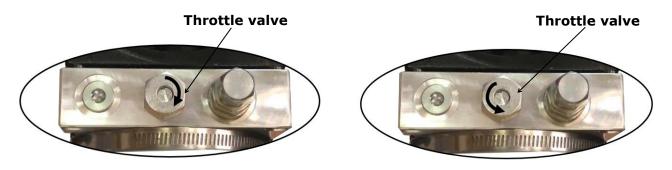
Fig. 39

Rise the vehicle carriages and lock them at the same height, strain the safety cable and then release a little, and then tighten the safety cable nuts. Make sure the safety device can always lock the carriages properly.

At last, install the plastic cover of the safety device.

### 3. Adjust the lowering speed

You can adjust the lowering speed of the lift if needing: screw the throttle valve clockwise to decrease the lowering speed, or counterclockwise to increase the lowering speed.



Adjust clockwise, decrease lowering speed

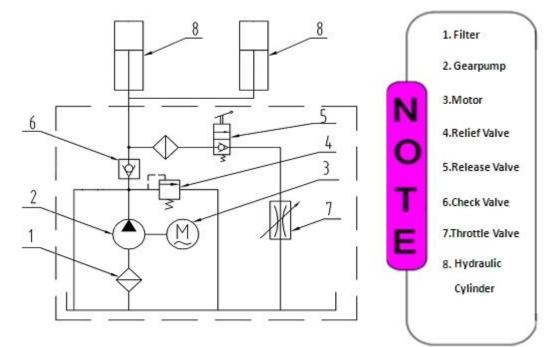
Counterclockwise, increase lowering speed



### 4. Test with load

After finishing the above adjustment, test running the lift with load. Run the lift in low position for several times first, make sure the lift can rise and lower synchronously, the Safety Device can lock and release synchronously. And then test run the lift to the top completely. If there is anything improper, repeat the above adjustment.

NOTE: It may be vibrated when lifting at start, please lifting it with load for several times, the air would be bled and the vibration would be disappeared automatically.



#### Hydraulic Schematic Diagram



### **VI. 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

- Push button "UP" until the lift pads contact underside of vehicle totally. Recheck to make sure vehicle is secure;
- 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. Push button "**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.

### **VII. MAINTENANCE SCHEDULE**

#### Monthly:

- 1. Re-torque the anchor bolts to 150Nm;
- 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 proper 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 does 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 of the cables to insure level lifting.
- 3. Check columns for plumbness.
- 4. Check rubber pads and replace as necessary.
- 5. Check safety device and make sure proper condition.

### **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.
- 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**

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

### IX. 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.



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