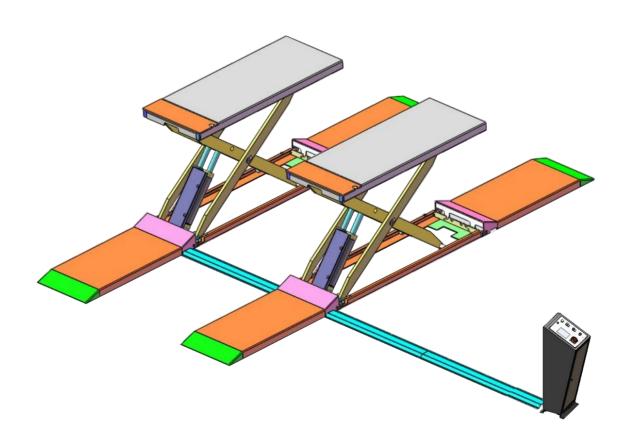


Original

Installation And Service Manual



MID-RISED SCISSORS LIFT Model: MRL-4000

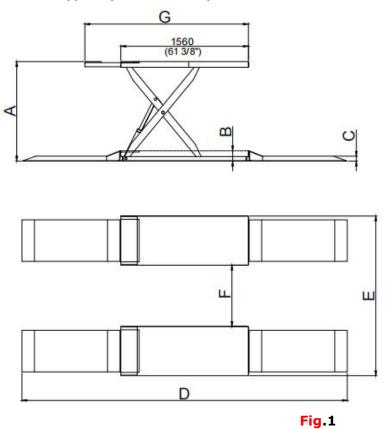
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I. PRODUCT FEATURES AND SPECIFICATIONS (See Fig.1)

MID-RISED SCISSORS LIFT: MODEL MRL-4000

- · 9,000LBS(4000kg) capacity;
- · Mid-rised scissor lift, 24V Safety voltage control;
- . Dual hydraulic synchronization & hydraulic locking system;
- . Lifting scissors made of thickened steel which are more stronger;
- . Adjustable lift platform length, applicable to vehicles with different wheelbases;
- . Two-stage drive in ramps, suitable for lifting ultra-low chassis vehicles;
- · Flexible structure design, users can choose either flush mount or surface mount;
- · Low Level Alarm, alarm tone device when coming down from 300mm to ground.;
- · Standard with 2 type square rubber pads;

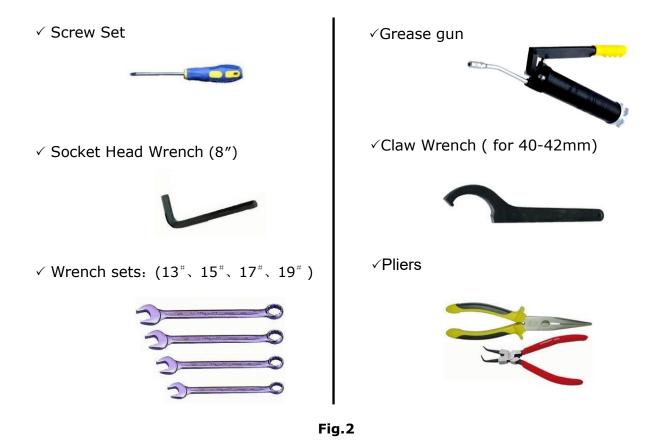


MODEL MRL-3000 SPECIFICATIONS

| | | | Α | В | С | D | E | F | G | |
|----------|-----------------------|-----------------|---------------------|-------------------|------------------|----------------------|---------------------|-----------------------------|-------------------------------------|-------|
| Model | Lifting Capacity | Lifting Time | | Minimum Height | Rams Height | Overall Length | Overall Width | Width Between Runways | Runway Length | Motor |
| MRL-4000 | 4000kg (9,000 lbs) | 29s | 1200mm (47 1/4") | 135mm (5 3/8") | 65mm (2 1/2") | 3980mm (156 3/4") | 1950mm (76 3/4") | 750mm (29 1/2") | 1560-1960mm (61 3/8"-77 1/8") | 3.0HP |

II. INSTALLATION REQUIREMENT

A. Tools requirement



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.



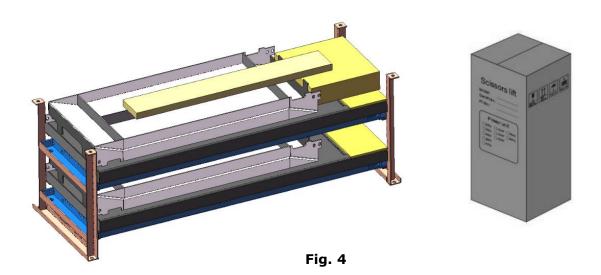
Fig.3

D. Power requirement

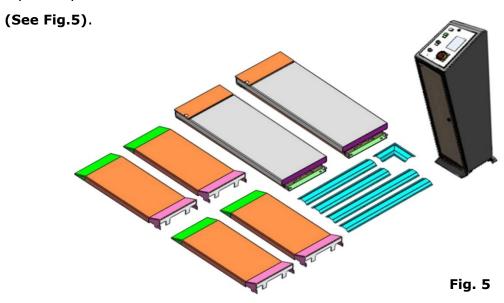
The electrical source must be 2.2KW minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. STEPS OF INSTALLATION

- A. Check the parts before assembly, make sure all the parts are completed.
- 1. Packaged lift, Parts box, Control Cabinet (See Fig. 4).



2. Move aside the parts, Open the outer packing and check the parts according to the shipment parts list

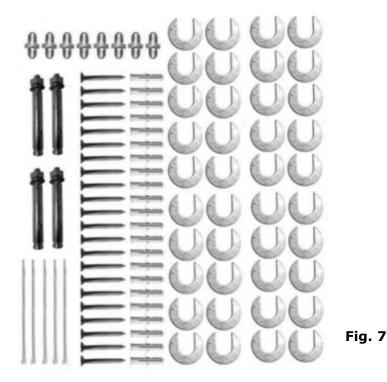


3. Open the parts box, check the parts according to the part list (See Fig.6).



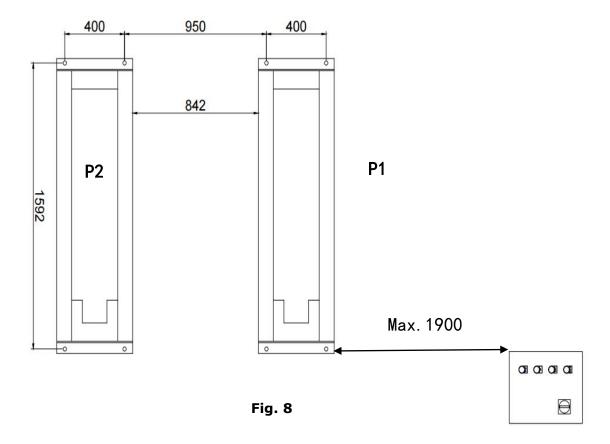
Fig. 6

4. Open the parts bag, check the parts according to the part list (See Fig.7).



B. SPECIFICATIONS OF CONCRETE

- 1. Concrete must be thickness 4"(100mm) minimum and test strength 210kg/cm² (3,000psi) minimum; floors must be in good condition and no cracks.
- 2. Install diagram



3. Install according to the actual installation site.

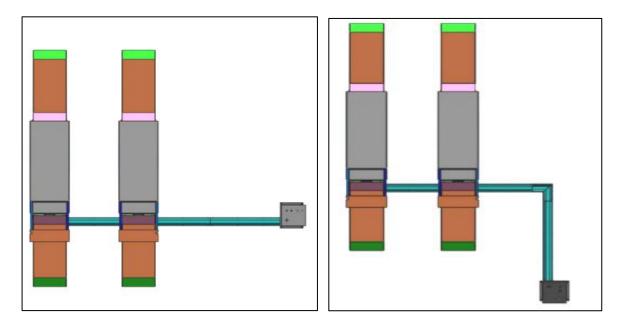
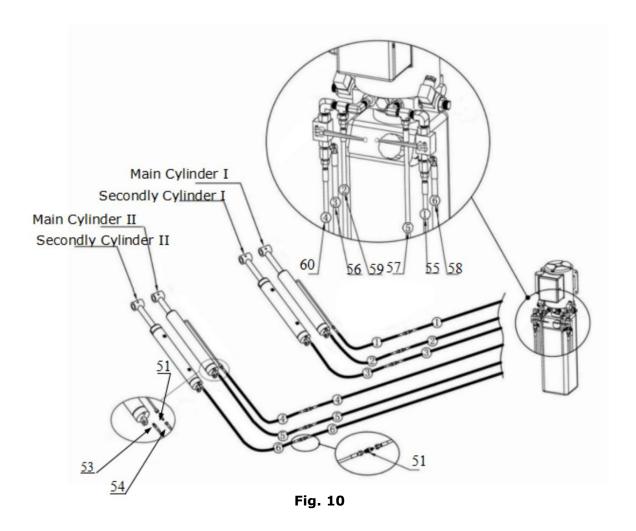


Fig.9

C. Install Oil hose

Connect oil hoses of control cabinet and lifts according to the numbers marked

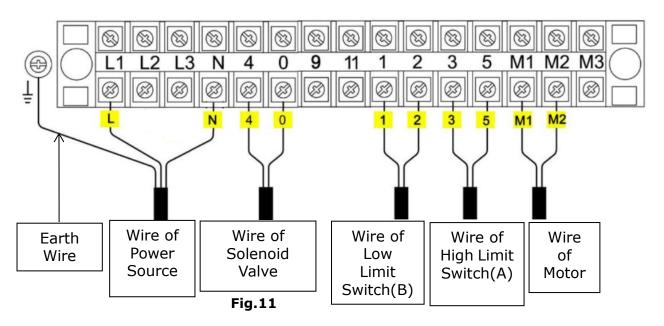


| No. | Part No. | Specification |
|-----|------------|------------------|
| 53 | 10620072 | 1/4*650mm |
| 54 | 1003285007 | 1/4*668mm |
| 55 | 1003285008 | No.③ 1/4*2530mm |
| 56 | 1003285009 | No.① 1/4*2770mm |
| 57 | 1003285010 | No. ④ 1/4*3780mm |
| 58 | 1003285011 | No. ⑥ 1/4*4030mm |
| 59 | 1003285012 | No. ② 1/4*2620mm |
| 60 | 1003285013 | No.⑤ 1/4*3970mm |

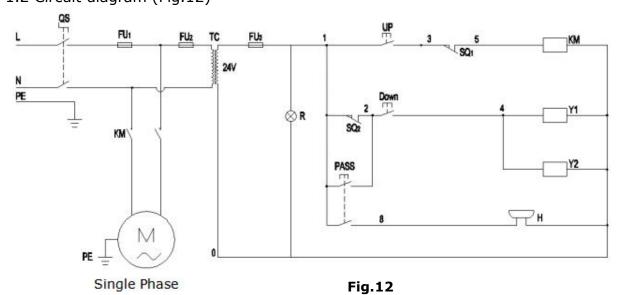
D. Install electrical system

1. Single phase circuit connection

1.1 Connecting the power supply wires and limit switch wires. (Fig.8)



1.2 Circuit diagram (Fig.12)



1.3 Part list

| No. | Description | Code | Specification |
|-----|--------------------------|-----------------|---------------|
| 1 | Power Switch | QS | 380V AC |
| 2 | Breaker | FU ₁ | 2P |
| 3 | Breaker | FU ₂ | 1P |
| 4 | Breaker | FU ₃ | 1P |
| 5 | AC Contactor | KM | 24V AC |
| 6 | High Limit Switch | SQ ₁ | 10A |
| 7 | Low Limit Switch | SQ ₂ | 10A |
| 8 | Hydraulic Solenoid Valve | Y | AC 24V |
| 9 | Push Button | UP | Single |
| 10 | Push Button | Down | Single |
| 11 | Push Button | Pass | Double |
| 12 | Motor | М | Single Phase |
| 13 | Control Transformer | TC | 24V AC |
| 14 | Indicator | R | 24V AC |

2. Three phase circuit connection

2.1 Connecting the power supply wires and limit switch wires. (Fig.10)

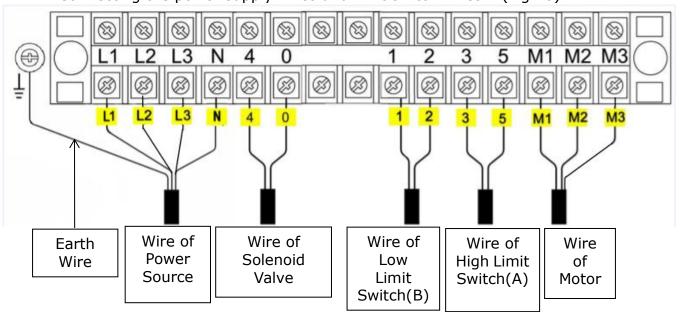


Fig.13

2.2 Circuit Diagram (see Fig.14)

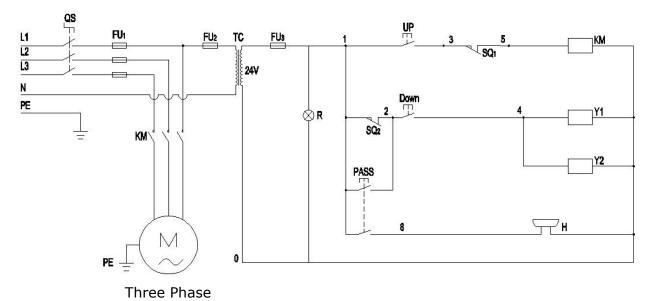


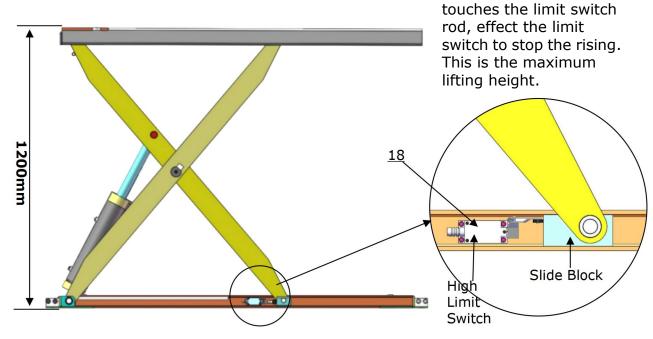
Fig.14

2.3 Part List

| No. | Description | Code | Specification |
|-----|--------------------------|-----------------|---------------|
| 1 | Power Switch | QS | 380V AC |
| 2 | Breaker | FU ₁ | 3P |
| 3 | Breaker | FU ₂ | 1P |
| 4 | Breaker | FU₃ | 1P |
| 5 | AC Contactor | KM | 24V AC |
| 6 | High Limit Switch | SQ ₁ | 10A |
| 7 | Low Limit Switch | SQ ₂ | 10A |
| 8 | Hydraulic Solenoid Valve | Y | AC 24V |
| 9 | Push Button | UP | Single |
| 10 | Push Button | Down | Single |
| 11 | Push Button | Pass | Double |
| 12 | Motor | М | Three Phase |
| 13 | Control Transformer | TC | 24V AC |
| 14 | Indicator | R | 24V AC |

E. Limit Device Illustration

1. High Limit Device

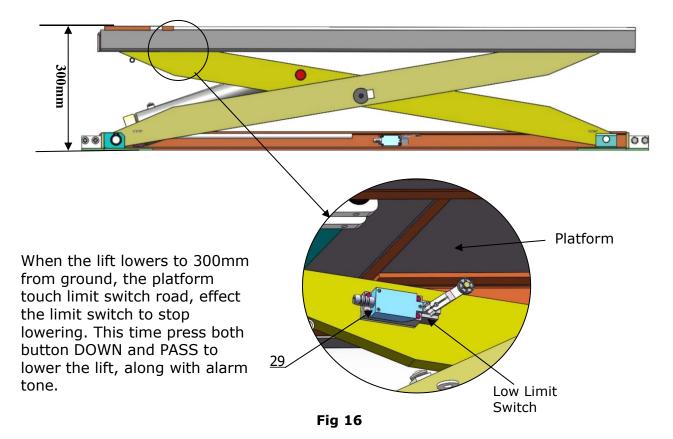


When lift rise to

1200mm, slide block

Fig 15

2. Low Limit Device



F. Level two platforms and install anchor bolts

1. Check by level bar and use the shim to adjust the platforms until two platforms are in the same level.

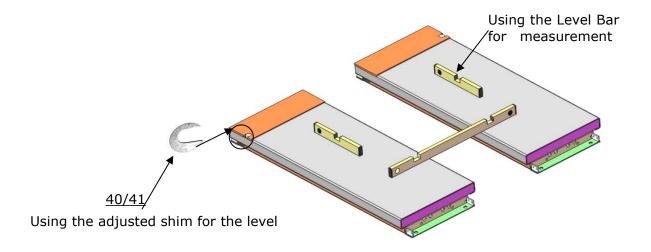
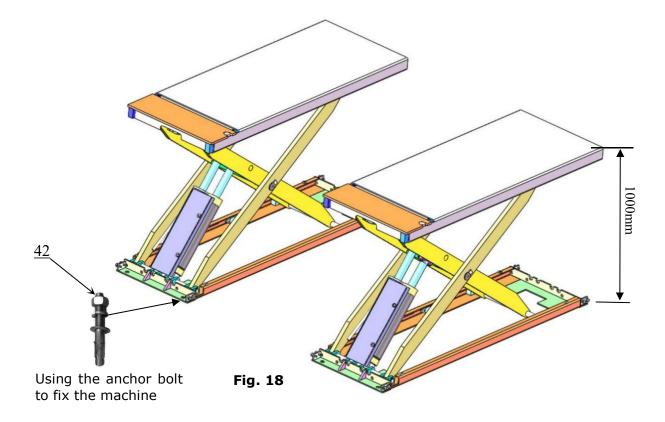


Fig 17

- 2. Anchor bolts installation
- 2.1 Lift the machine to 1000mm for the anchor bolt installation.



2.2 Drilling the hole for the anchor bolt with the rotary hammer drill, type the anchor bolt into the ground, and then fasten it with Ratchet spanner.

Note: The Torque of anchor bolt is 150 N.m, the length inside ground of anchor bolt must be over 90mm.

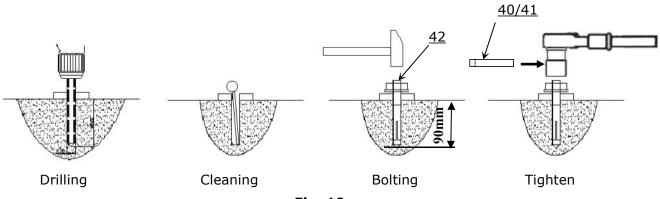
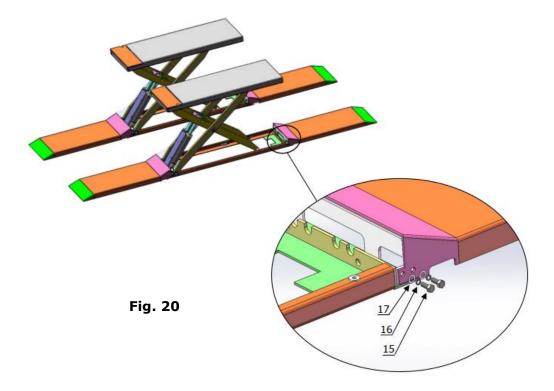


Fig. 19

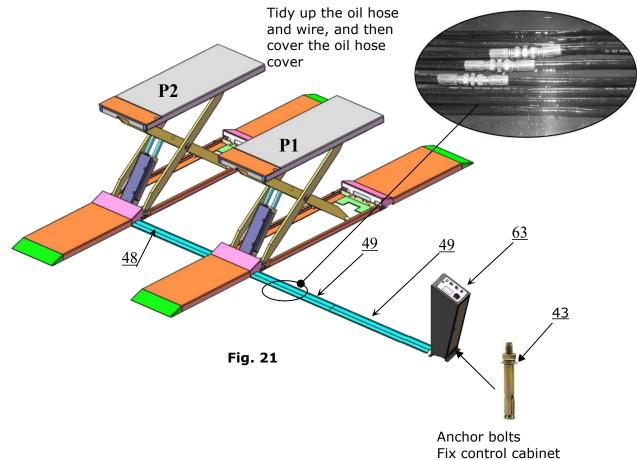
G. Install drive-in ramps

Install the 4pcs drive-in ramps to base with bolts.

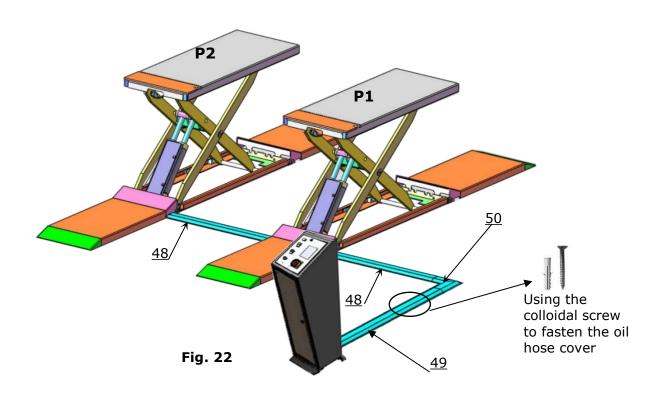


H. Install oil hose cover and anchor the control cabinet

1. Tidy up the oil hose and wire, cover the oil hose cover and layout the control cabinet.



View B Installation



2. Install the colloidal screw of oil hose cover

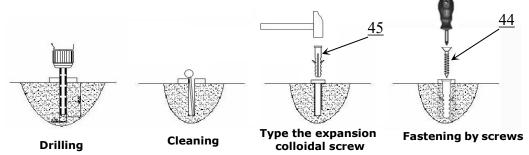


Fig. 23

3. Install the control cabinet anchor bolt

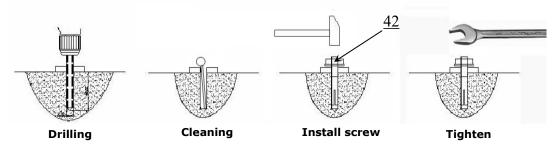
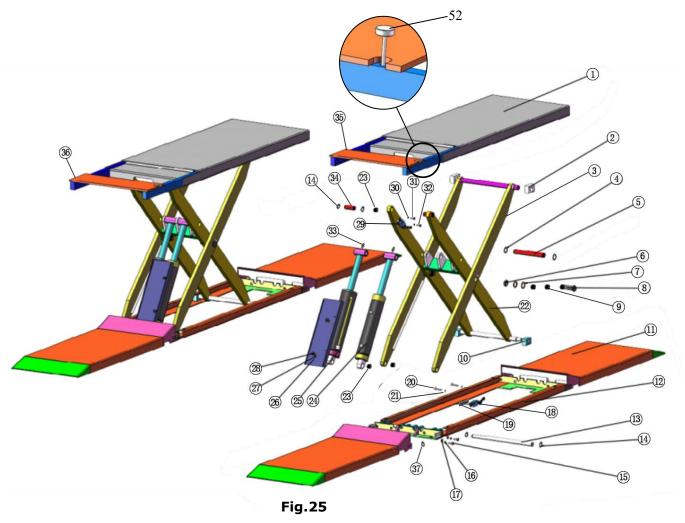


Fig. 24

IV. EXPLODED VIEW



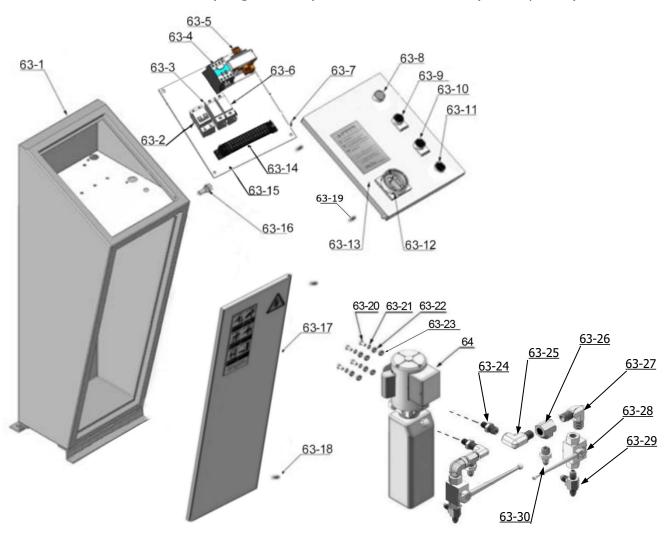
PARTS LIST FOR MODEL MRL-4000

| Item | Part# | Description | QTY. | Note |
|------|-------------|---|------|------|
| 1 | 1103283001A | Platform | 2 | |
| 2 | 1003105001 | Upper Slide Block HK023 60*42*33 | 4 | |
| 3 | 1103282001A | Outer Scissors | 2 | |
| 4 | 10610008 | Snap Ring Φ30 | 4 | |
| 5 | 1103282008 | Piston Rod Connecting shaft φ30*226 | 2 | |
| 6 | 10610123 | Self Locking Nut M30*3.5 | 4 | |
| 7 | 10610108 | Washer Φ44*Φ30.5*2 | 8 | |
| 8 | 1106582010 | Connecting Pin for inner scissors φ45*103 | 4 | |
| 9 | 10620141 | Bronze Bush Φ36*Φ30.1*24 | | |
| 10 | 10620061 | Lower Slide Block 80*42*33 | 4 | |
| 11 | 1103283007A | Drive-in Ramps | 4 | |
| 12 | 1103281000A | Base | 2 | |
| 13 | 1103282007 | Connecting shaft of cylinder end cap φ25*461 | 12 | |
| 14 | 10206032 | Snap Ring Φ25 | 12 | |
| 15 | 10209126 | Hex Bolt M10*25 | 16 | |
| 16 | 10209039 | Lock Washer Φ10 | 16 | |
| 17 | 10209022 | WasherΦ10 | 16 | |
| 18 | 1003285014 | High Limit Switch assy. (Include wire 6300mm) | 1 | |
| 19 | 11620060 | Limit switch support plate 3.5*15*70 | 1 | |
| 20 | 10203018 | Socket Bolt M5*15 | 2 | |
| 21 | 10420152 | Washer Φ5 | 2 | |
| 22 | 1103282003A | Inner Scissors | 2 | |
| 23 | 10203004A | Bronze Bush Φ31*Φ25.1*21 | 12 | |
| 24 | 1003286002 | Secondly Cylinder Φ75*270 | 2 | |
| 25 | 1003286001 | Main Cylinder Φ85*270 | 2 | |
| 26 | 1103282009 | Cylinder Cover L=480mm | 2 | |
| 27 | 10420045 | Washer Φ6 | 4 | |
| 28 | 10209009 | Cup Head Bolt M6*8 | 4 | |
| 29 | 1003285006 | Low Limit Switch assy.(Include wire 6900mm) | 1 | |
| 30 | 10620095 | Hex Nut M4 | 4 | |
| 31 | 10420149 | Cup Head Bolt M4*25 | 2 | |
| 32 | 10420164 | Cup Head Bolt M4*30 | 2 | |
| 33 | 10620064 | Greasing Fitting M6 | 4 | |
| 34 | 11620028A | Pin Φ25*72 | 4 | |
| 35 | 1103283006A | Support Plate 1 | 1 | |
| 36 | 1103283006B | Support Plate 2 | 1 | |
| 37 | 10620059 | Wire protection ring Φ12 | 2 | |
| 38 | 1103283013C | Connecting Handle | 2 | |
| 39 | 1003285004 | Socket Bolt M8*50 | 2 | |
| 40 | 10201090 | Shim (1mm) | 20 | |
| 41 | 10620065 | Shim (2mm) | 20 | |
| 42 | 10209059 | Anchor Bolts 3/4*5-1/2 | 8 | |
| 43 | 10620071 | Anchor Bolts M10*100 | 4 | |

| Item | Part# | Description | QTY. | Note |
|------|------------|--------------------------------|------|------|
| 44 | 10620069 | Wood Screw M4*30 | 22 | |
| 45 | 10620070 | Colloidal Φ6 | 22 | |
| 46 | 10620034 | Rubber Pads (120*100*38) | 4 | |
| 47 | 10610070 | Rubber Pads (100*70*120) | 4 | |
| 48 | 1103281006 | Oil Hose Cover L=840mm | 2 | |
| 49 | 11620036A | Oil Hose Cover L=1060mm | 2 | |
| 50 | 11620161 | Oil Hose Cover | 1 | |
| 51 | 10620079 | Fitting 1/4JIC(M)*1/4JIC(M) | 8 | |
| 52 | 1103283013 | Pin | 2 | |
| 53 | 10620072 | Oil Hose 1/4*650mm | 4 | |
| 54 | 1003285007 | Oil Hose 1/4*668mm | 2 | |
| 55 | 1003285008 | No.3 Oil Hose 1/4*2530mm | 1 | |
| 56 | 1003285009 | No.① Oil Hose 1/4*2770mm | 1 | |
| 57 | 1003285010 | No. 4 Oil Hose 1/4*3780mm | 1 | |
| 58 | 1003285011 | No. 6 Oil Hose 1/4*4030mm | 1 | |
| 59 | 1003285012 | No. 2 Oil Hose 1/4*2620mm | 1 | |
| 60 | 1003285013 | No. 5 Oil Hose 1/4*3970mm | 1 | |
| 61 | 10209138 | Tie 5*350 | 4 | |
| 62 | 1003287001 | Control Cabinet (Single phase) | 1 /1 | |
| 63 | 1003287002 | Control Cabinet (Three phase) | 1/1 | |
| 6.4 | 81523007 | Power Unit (Single phase) | 1 /1 | |
| 64 | 81523008 | Power Unit (Three phase) | 1/1 | |
| 65 | | Parts Box | 1 | |

1. Control Cabinet

Part No.: 1003287001 (Single Phase) 1003287002 (Three phase)



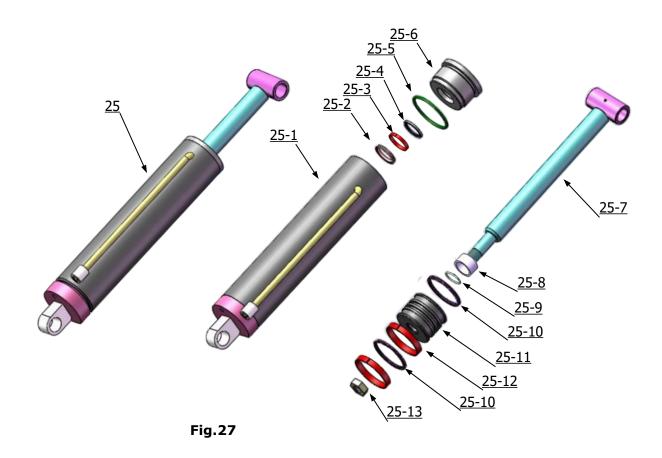
Parts list for control cabinet

Fig.26

| Item | Part# | Description | QTY. | Note |
|-------|-----------|------------------------|------|------|
| 63-1 | 1162K001A | Cabinet | 1 | |
| 63-2 | 10620150 | Breaker DZ47-60/3P 25A | 1 | |
| 03-2 | 10202046 | Breaker 2P 220V | 1 | |
| 63-3 | 10202049 | Breaker TGB1V-63/1P 6A | 1 | |
| 63-4 | 10420084A | 24V AC Contactor (KM) | 1 | |
| 63-5 | 10420134 | 24V Transformer (TC) | 1 | |
| 63-6 | 10202049 | Breaker 1P 6A | 1 | |
| 63-7 | 1061K052 | Cup Head Bolt | 4 | |
| 63-8 | 10201094 | Indicator | 1 | |
| 63-9 | 10209099A | UP Button | 1 | |
| 63-10 | 10209099A | Down Button | 1 | |
| 63-11 | 10420142 | PASS Button | 1 | |

| 63-12 | 41010217 | Power Switch | 1 | |
|-------|----------|---|---|--|
| 63-13 | 1162K007 | Control Panel | 1 | |
| 63-14 | 10620082 | 15-bit connection terminal | 1 | |
| 63-15 | 10620099 | Connection board | 1 | |
| 63-16 | 10420143 | Buzzer (H) | 1 | |
| 63-17 | 1162K012 | Cabinet Door | 1 | |
| 63-18 | 10720038 | Cup Head Bolt M6*30 | 4 | |
| 63-19 | 10209145 | Cup Head Bolt M6*12 | 4 | |
| 63-20 | 10201122 | Hex Bolt M8*35 | 4 | |
| 63-21 | 10209033 | Washer Φ8 | 4 | |
| 63-22 | 10209004 | Rubber Ring 8*20*3 | 4 | |
| 63-23 | 10217002 | Hex Nut M8 | 4 | |
| 63-24 | 10440009 | Straight Fitting 3/8SAEO/R(M)*1/4NPT(M) | 2 | |
| 63-25 | 1052K027 | 90 ⁰ fitting 1/4NPT(M)*1/4NPT(F) | 2 | |
| 63-26 | 1061K107 | T Fitting 1/4NPT(F)*1/4NPT(F)*1/4NPT(F) | 2 | |
| 63-27 | 10680072 | 90º fitting 1/4NPT(M)*1/4NPT(M) | 2 | |
| 63-28 | 1061K101 | High pressure ball valve KHB-1/4NPT(F) | 2 | |
| 63-29 | 10209062 | T Fitting 1/4NPT(M)*1/4JIC(M)*1/4JIC(M) | 2 | |
| 63-30 | 10209064 | Straight Fitting 1/4NPT(M)*1/4JIC(M) | 2 | |

2. Main Cylinder (1003286001)



| Item | Part# | Description | QTY. | Note |
|-------|-------------|--------------------------------------|------|------|
| 25-1 | 1103286003 | Bore Weldment | 1 | |
| 25-2 | 10620046 | Υ Ring OSI Φ40*Φ50*6 | 1 | |
| 25-3 | 10620047 | Support Ring Φ40*Φ46*12.5*3 | 1 | |
| 25-4 | 10209078A | Dust Ring Φ40*Φ48*(5~6.5) | 1 | |
| 25-5 | 10510059 | Ο Ring Φ84*5.3 | 1 | |
| 25-6 | 1103286014 | End Cover | 1 | |
| 25-7 | 1103286004 | Piston Rod | 1 | |
| 25-8 | 11620193 | Adjusting Ring Φ60*10.5*16 | 1 | |
| 25-9 | 10620197 | Ο Ring Φ25*3.1 | 1 | |
| 25-10 | 10510057 | Υ Ring OSI Φ75*Φ85*6 | 2 | |
| 25-11 | 1103286013 | Piston | 1 | |
| 25-12 | 10510058 | Support Ring Φ40*Φ46*3*12.5 | 2 | |
| 25-13 | 85090239 | Nut M24*3 | 1 | |
| 25-14 | 10209064 | Straight Fitting 1/4NPT(M)*1/4JIC(M) | 1 | |
| 25-15 | 1103286009A | Oil Hose Assy. | 1 | |

3. Secondly Cylinder (1003286001)

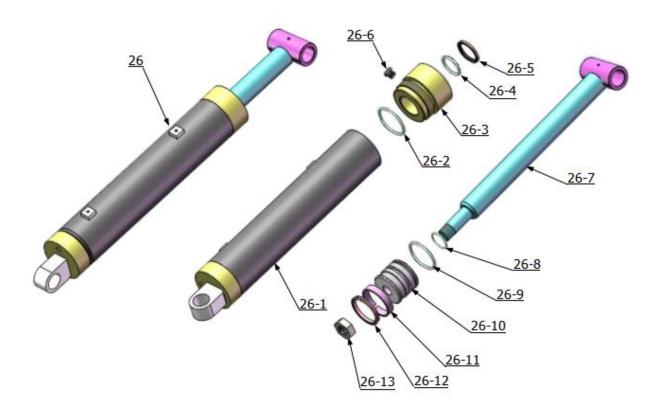
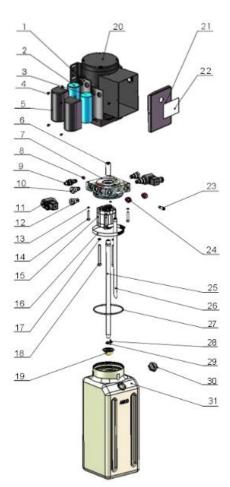


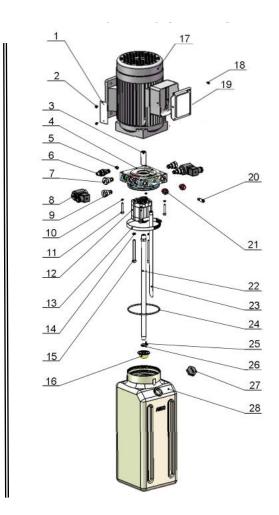
Fig.28

| Item | Part# | Description | QTY. | Note |
|-------|------------|-----------------------------|------|------|
| 26-1 | 1103286005 | Bore Weldment | 1 | |
| 26-2 | 10620049 | O ring Ф69*5.3 | 1 | |
| 26-3 | 1103286016 | End Cap | 1 | |
| 26-4 | 10620058 | Ο Ring Φ40*3.55 | 1 | |
| 26-5 | 10209078A | Dust Ring Φ40*Φ48*(5~6.5) | 1 | |
| 26-6 | 10201034 | Buzzer | 1 | |
| 26-7 | 1103286004 | Piston Rod | 1 | |
| 26-8 | 10620197 | O Ring Φ25*3.1(进口 70°) | 1 | |
| 26-9 | 10630027 | O Ring Φ68*3.55(进口 90°) | 1 | |
| 26-10 | 1103286017 | Piston | 1 | |
| 26-11 | 10620053 | Support Ring Φ69*Φ75*12.5*3 | 1 | |
| 26-12 | 10620054 | Υ Ring Φ65*Φ75*6 | 1 | |
| 26-13 | 85090239 | Hex Bolt M24*3 | 1 | |

4. Power Unit

220V/50HZ/Single Phase





| Fig.29 Power Unit 380V/50Hz Three Phase | | | | | |
|---|----------|---------------------------|------|------|--|
| Item | Part No. | Description | QTY. | Note | |
| 1 | 71150055 | AMGO Plate | 1 | | |
| 2 | 81400300 | Cup Head Bolt | 2 | | |
| 3 | 81400363 | Motor Connecting Shaft | 1 | | |
| 4 | 80101015 | Manifold Block | 1 | | |
| 5 | 81400333 | Socket Plug | 4 | | |
| 6 | 81400266 | Relief Valve | 1 | | |
| 7 | 81400566 | Check Valve | 2 | | |
| 8 | 81400420 | Solenoid valve coil | 2 | | |
| 9 | 81400423 | Electric Release Valve | 2 | | |
| 10 | 10209149 | Lock Washer φ6 | 4 | | |
| 11 | 85090142 | Socket Bolt | 4 | | |
| 12 | 81400280 | Gear Pump | 1 | | |
| 13 | 81400364 | Clamp | 1 | | |
| 14 | 10209034 | Lock Washer φ8 | 2 | | |
| 15 | 81400295 | Socket Bolt | 2 | | |
| 16 | 81400290 | Filter | 1 | | |
| 17 | 81400286 | Motor | 1 | | |
| 18 | 10420148 | Cup Head Bolt with washer | 2 | | |
| 19 | 81400208 | Terminal Box Cover | 1 | | |
| 20 | 81400560 | Throttle Valve | 1 | | |
| 21 | 81400259 | Red plastic plug | 2 | | |
| 22 | 81400288 | Oil Suction Pipe | 1 | | |
| 23 | 81400289 | Oil Return Pipe | 1 | | |
| 24 | 81400365 | O Ring | 1 | | |
| 25 | 85090167 | Magnet | 1 | | |
| 26 | 10209152 | Tie | 1 | | |
| 27 | 81400263 | Oil Tank Cap | 1 | | |
| 28 | 81400275 | Oil tank | 1 | | |

| Power Unit 220V/50Hz Single Phase | | | | | | |
|-----------------------------------|----------|---------------------------|------|------|--|--|
| Item | Part No. | Description | QTY. | Note | | |
| 1 | 81400180 | Rubber Pad | 2 | | | |
| 2 | 81400250 | Start Capacitor | 1 | | | |
| 3 | 81400200 | Run Capacitor | 1 | | | |
| 4 | 10420148 | Cup Head Bolt with Washer | 6 | | | |
| 5 | 81400066 | Capacitor Cover | 2 | | | |
| 6 | 81400363 | Motor Connecting Shaft | 1 | | | |
| 7 | 80101015 | Manifold Block | 1 | | | |
| 8 | 81400333 | Socket Plug | 4 | | | |
| 9 | 81400266 | Relief Valve | 1 | | | |
| 10 | 81400566 | Check Valve | 2 | | | |

| 11 | 81400420 | Solenoid valve coil | 2 | |
|----|----------|------------------------|---|--|
| 12 | 81400423 | Electric Release Valve | 2 | |
| 13 | 10209149 | Lock Washer φ6 | 4 | |
| 14 | 85090142 | Socket Bolt | 4 | |
| 15 | 81400280 | Gear Pump | 1 | |
| 16 | 81400364 | Clamp | 1 | |
| 17 | 10209034 | Lock Washer φ8 | 2 | |
| 18 | 81400295 | Socket Bolt | 2 | |
| 19 | 81400290 | Filter | 1 | |
| 20 | 81400590 | Motor | 1 | |
| 21 | 81400287 | Terminal Box Cover | 1 | |
| 22 | 71111231 | AMGO name Plate | 1 | |
| 23 | 81400560 | Throttle Valve | 1 | |
| 24 | 81400259 | Red Plastic Plug | 2 | |
| 25 | 81400288 | Oil Suction Pipe | 1 | |
| 26 | 81400289 | Oil Return Pipe | 1 | |
| 27 | 81400365 | O Ring | 1 | |
| 28 | 10209152 | Tie | 1 | |
| 29 | 85090167 | Magnet | 1 | |
| 30 | 81400263 | Oil Tank Cap | 1 | |
| 31 | 81400275 | Oil Tank | 1 | |

Illustration of hydraulic valve for power unit



Fig.30

V. TEST RUN

- 1. Turn on the power after connecting oil system correctly. Push the **UP** button, and check the rotated direction of the Motor (This is right if lift is upward, otherwise, it is wrong direction of the Motor). Shut off power and exchange the phase connection if the direction is wrong.
- Fill the reservoir with hydraulic oil. In consideration of hydraulic power unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.
- 3. Synchronous adjustment (Low down the lift at the lowest position)
- a. Turning the handles of shutoff valves to the position as Fig.31. Push the button UP fill oil to the cylinders until both platforms just start to lift up, simultaneously push button DOWN and PASS for 5 seconds with buzzer sounds, the buzzer rings and the sound of bubbles can be heard. This operation is to exhaust the air from cylinders. Repeat this operation for 2-3 times until no sound of bubbles are heard.
- b. Quickly click the button **UP** until the platforms just to be lifted up.
- c. Turn the handles of shutoff valves to the positions as **Fig.32**. Push the button **UP** to check if the platform P1 and P2 can lift up synchronously. If not, repeat the step a and b until the platform P1 and P2 can lift up synchronously.



Oil Filling Position **Fig. 31**



Normal Working Position **Fig.32**

- d. After the platform P1 and P2 were confirmed of acting synchronously, idling test should be done for a complete route of lifting and lowering, and then test with car.
- e. Once the lift cannot be lowered from the highest position while press **DOWN** during idling test, turn the 2pcs shutoff valves quickly into oil filling position (Fig.31), then quickly to normal working position (Fig.32).

Note: This operation of turning the handles should be finished quickly, non-stop.



Fig.33

VI. OPERATION INSTRUCTIONS

To lift vehicle

- 1. Keep clean of site near the lift, and down the lift to the lowest position;
- 2. Drive vehicle to the platform and put on the brake;
- 3. Turn on the power and push the button **UP**, raise the lift to the working position; **Note:** make sure the vehicle is steady when the lift is raised
- 4. Make sure the platforms are in the same level before working then turn off the power switch

To lower vehicle

 Cleaning the obstacles around or under the lift, and make sure no people around under the lift.

- 2. Turn on the power switch, push the down button **Down** to lower the lift, the lift is lowered continually and stopped at the height 300mm from ground. Keep feet clear off lift, push button **DOWN** while push the **Lowering Alarm Button(black)** at the side of control cabinet, the lift will be lowered to ground with alarm tone;
- 3. Driving away the car.
- 4. Turn off the power switch.

VII. MAINTENANCE SCHEDULE

Monthly:

- 1. Re-torque the anchor bolts to 150Nm.
- 2. Lubricate all moving parts with lubricant.
- 3. Check all fittings, bolts and pins to insure proper mounting.
- 4. Make a visual inspection of all hydraulic hoses for possible wear or leakage.

Adjusting the lifting level on both platforms.

5. Adjusting the lifting level on both platforms.

Every six months:

- 1. Make a visual inspection of all moving parts for possible wear, interference or damage.
- 2. Checking the lifting level on both platforms
- 3. Check all fastener 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

| TROUBLE | CAUSE | REMEDY |
|--------------------|--|---------------------------------|
| | 1. Start Button does not work | 1. Replace start button |
| | 2. AC contactor burned out | 2. Replace AC Contactor |
| Motor does not | 3. Motor burned out | 3. Repair or replace motor |
| run | | |
| | | |
| | 1. Lack of phase (Only for three phase) | 1. Check the wire of connection |
| | | if good or not. |
| Motor sound but | 2. AC contactor connection poor | 2. Replace AC contactor |
| not working | | |
| | | |
| | 1. Motor runs in reverse rotation (Only | 1. Reverse two power wire |
| | for 3 phase) | |
| Motor runs but | 2. Not enough hydraulic oil | 2. Fill the oil |
| the lift is not | 3. Gear Pump out of operation | 3. Repair or replace |
| raised | 4. Relief Valve or Check Valve in damage | 4. Repair or replace |
| | 5. Coupling damage | 5. Repair or replace |
| | | 4 61 11 11 11 |
| | 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. Repair or replace pump |
| | 5. Overload lifting | 5. Check load |
| Lift can not | Solenoid valve not working | Check the solenoid valve |
| lower | | |
| | | |

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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