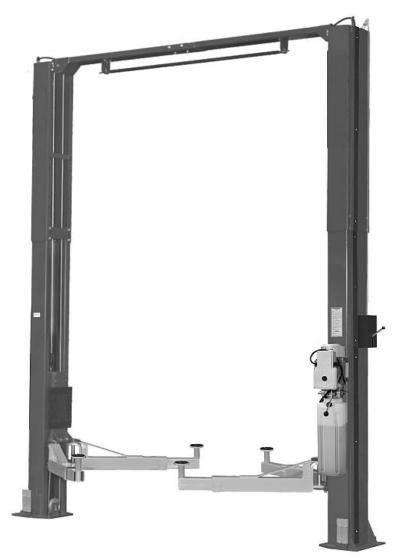


Original

Installation And Service Manual



TWO-POST LIFT

MODEL: OH-15

CONTENTS

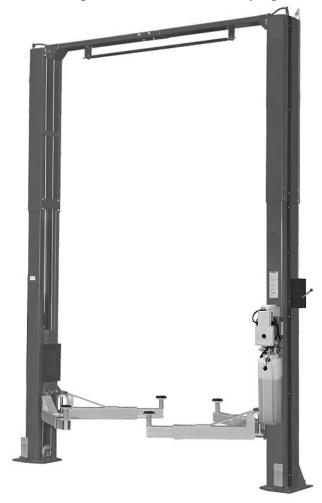
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I. PRODUCT FEATURES AND SPECIFICATIONS

CLEAR-FLOOR DIRECT-DRIVED MODEL FEATURES

Model OH-15 (See Fig. 1)

- · Direct-drived design, minimize the lift wear parts and breakdown ratio
- Dual hydraulic cylinders are designed and manufactured according to high standard, utilizing imported seals
- · Self- lubricating UHMW Polyethylene sliders and bronze bush
- · Single-point safety release with dual safety design
- . Clear-floor design, provide unobstructed floor use
- . Overhead safety shut-off device prevents vehicle damage
- . Standard adjustable heights accommodate varying ceiling heights



MODEL OH-15 SPECIFICATION

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
	Clear-floor	15,000lbs	90s	72 1/2" - 81 1/2"	174"/198"	150 3/4"	7 1/4"	2.0HP
OH-15	Direct-drived	(6800kg)	905	(1842-2071mm)	(4420/5029mm)	(3829mm)	(185mm)	

Arm Swings View

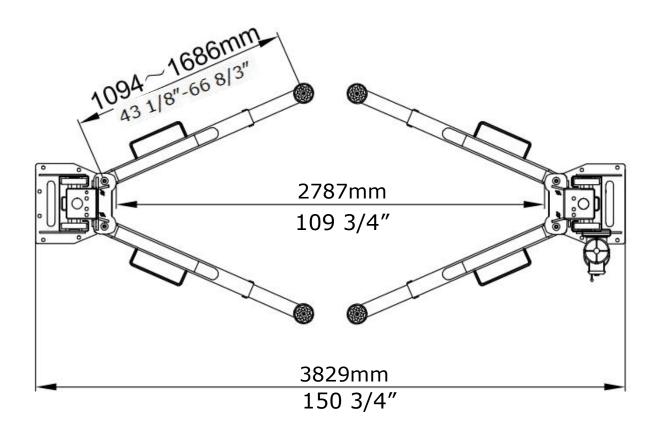


Fig. 2

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

✓ Rotary Hammer Drill (Ф19)



✓ Hammer



√ Level Bar



✓ English Spanner (12")



✓ Wrench set: $(10^{#}, 13^{#}, 14^{#}, 15^{#}, 17^{#}$ $19^{#}, 24^{#}, 27^{#}, 30^{#})$



✓ Ratchet Spanner With Socket (28[#])



√ Carpenter's Chalk



✓ Screw Sets



✓ Tape Measure (7.5m)



✓ Pliers



✓ Lock Wrench



✓ Socket Head Wrench (3[#], 5[#], 8[#])



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"(120mm) minimum and without reinforcing steel bars, and must be totally dry before lift installation.
- 2. Concrete must be in good condition and must be of test strength 3,500psi (245kg/cm²) minimum.
- 3. Floors must be level with no cracks or holes. Concrete intensity must be 3,500psi <u>56</u> (245kg/cm²)

Fig. 5

E. POWER SUPPLY

The electrical source must be 3KW minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. INSTALLATION STEPS

A. Location of installation

Check and ensure 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)

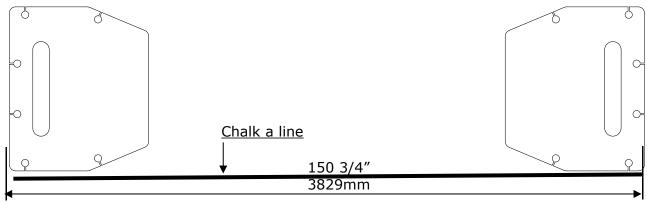


Fig. 6

C. Check the parts before assembly.

1. Packaged lift, hydraulic power unit and parts box; (Remark: Outer column is packed into the machine) (See Fig. 7).



2. Move the lift aside with a fork lift or hoist, and open the outer packing carefully (See Fig. 8).

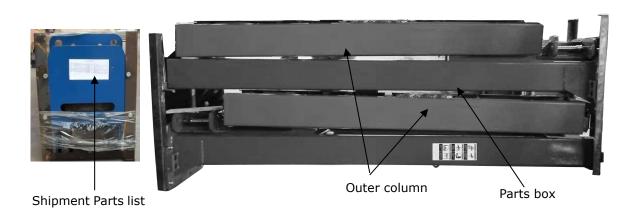


Fig. 8

3. Take out 2pcs outer column, then place the inner column to the installation location. (See Fig. 9).



Fig. 9

4. Lift the upper column with a fork lift or hoist, loosen the bolts of the upper package stand, take out the parts in the inner column (See Fig. 10).



Fig. 10

5. Lift the lower column with a fork lift or hoist, take down the package stand, than take off the lower outer column, take out the parts in the inner column (See Fig. 11).

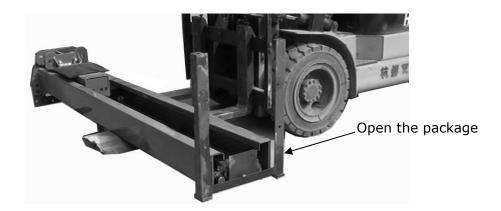
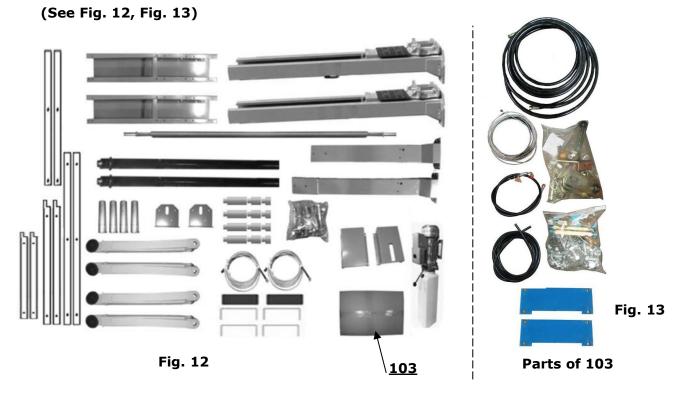
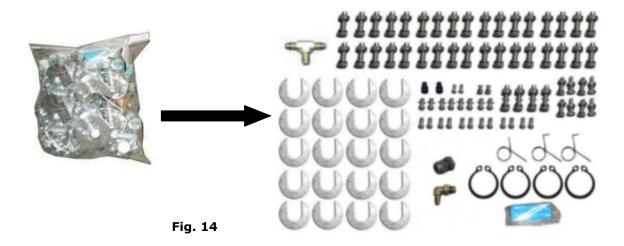


Fig. 11

6. Move aside the parts and check the parts according to the shipment parts list



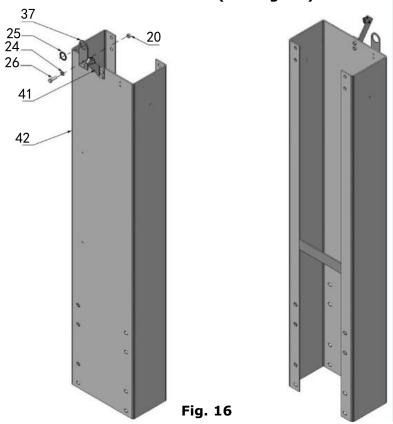
7. Check the parts of the parts bag 1 according to parts bag list (See Fig. 14).



8. Check the parts of the parts bag 2 according to parts bag list (See Fig. 15).

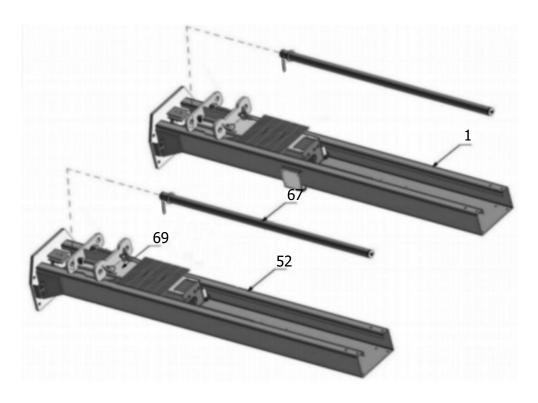


D. Install parts of extension columns (See Fig. 16).



E. Confirm the installation location and install hydraulic cylinder

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 right side of vehicles driven-in, and then put the cylinder into the carriages. (See Fig. 17).



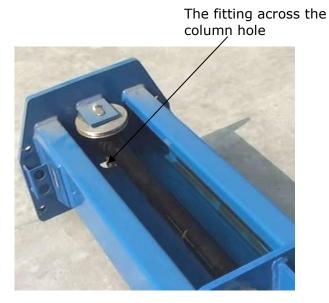


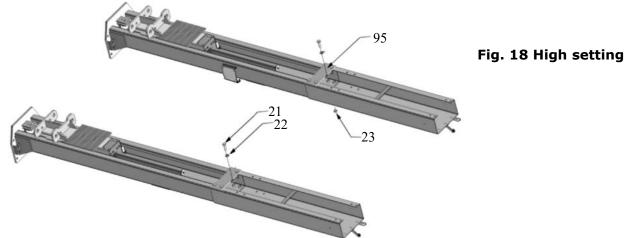
Fig. 17

F. Install columns

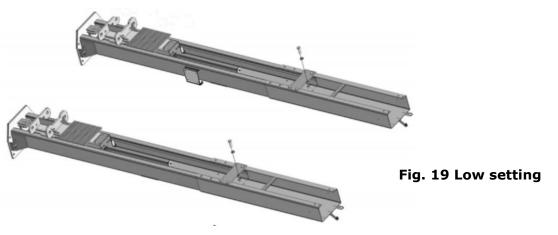
This lift is designed with 2-Section columns. Adjustable height according to the ceiling height and connecting the inner and outer columns.

If the ceiling height is over $198\ 1/4''(5035\text{mm})$, it can be installed in a high setting; if the ceiling height between $174\ 3/8''(4430\text{mm})$ - $198\ 1/4''(5035\text{mm})$, it can be installed in the low setting; it is not allowed to install if the ceiling height less than $174\ 3/8''(4430\text{mm})$.

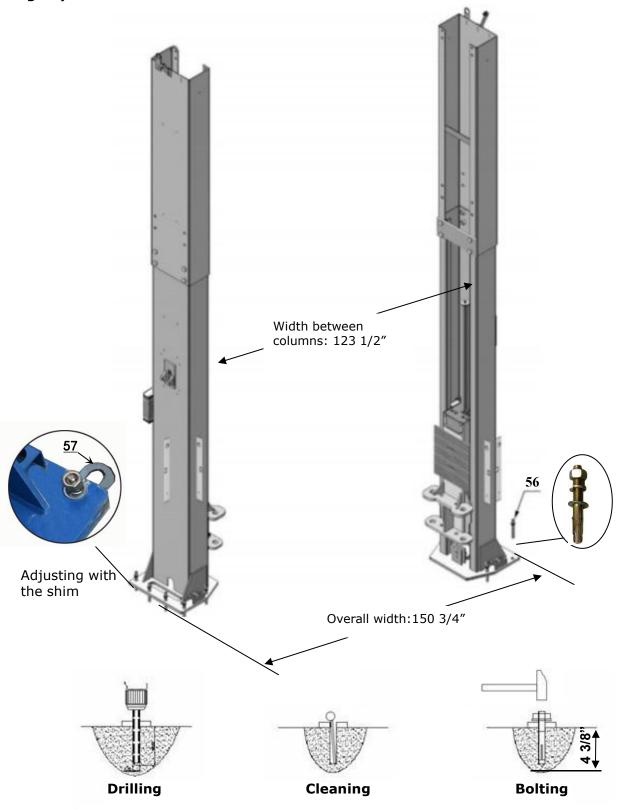
1. High Setting, connecting the outer columns with the lower hole (See Fig. 18).



2. Low Setting: connecting the extension columns with the upper hole (See Fig.19).



G. Install anchor bolts. Position the columns on the installation layout. Check the columns verticality with level bar, and adjusting with the shim if the columns are not vertical. Do not tighten the anchor bolts at this time. (See Fig.20)



Note: Minimum embedment of anchors is 4 3/8"(110mm).

Fig. 20

H. Install top beam.

1. Hang the top beam to the extension column and tighten the bolts. (See Fig. 21).

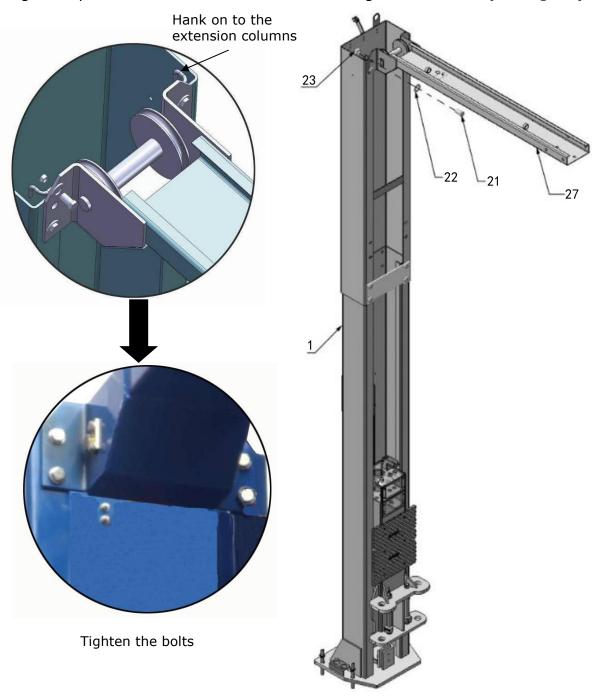
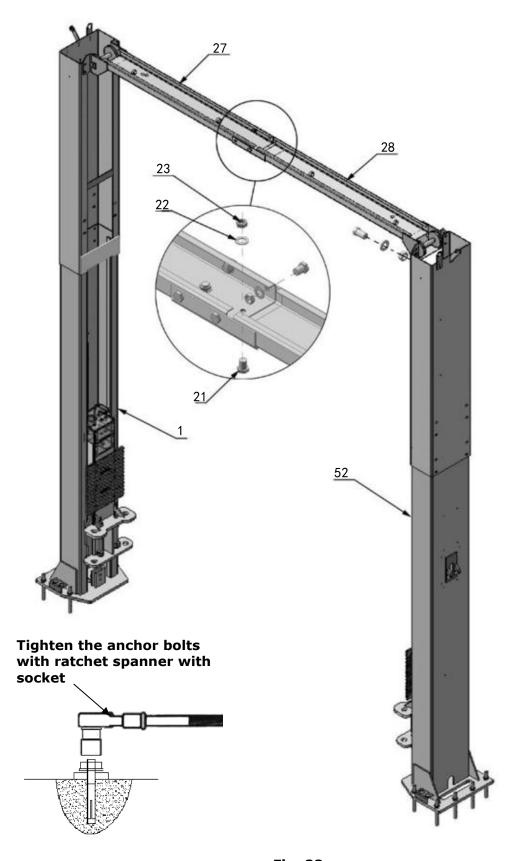


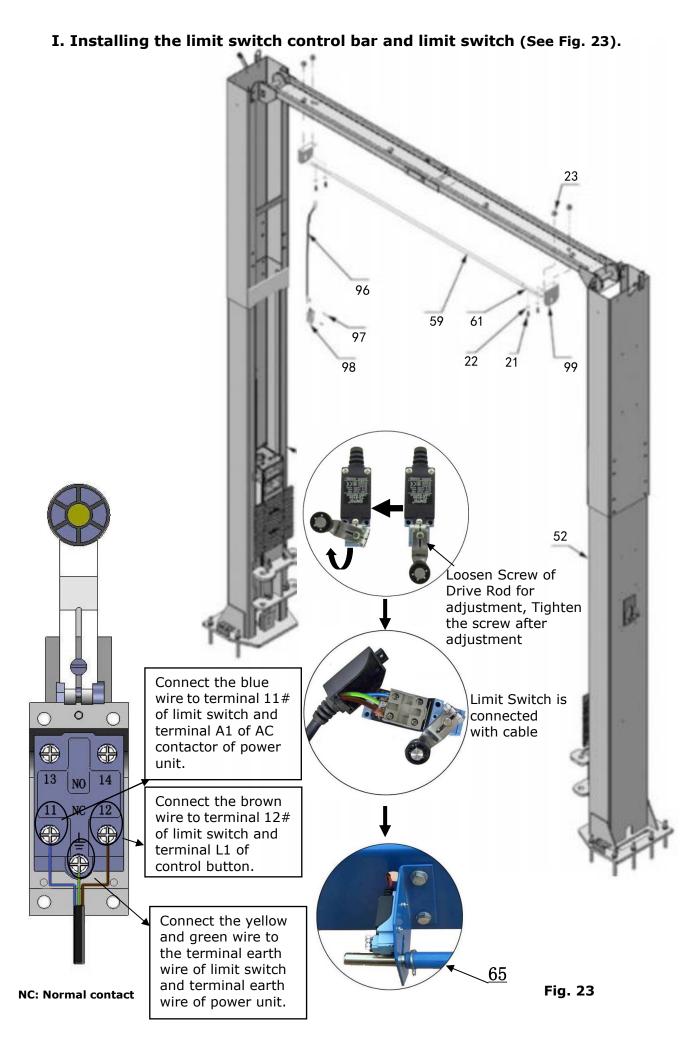
Fig. 21

2. Assemble overhead top beam, tighten the columns anchor bolts (See Fig. 22).



Note: Torque of Anchors is 150N.m.

Fig. 22



J. Install safety device (See Fig. 24 & Fig. 25).

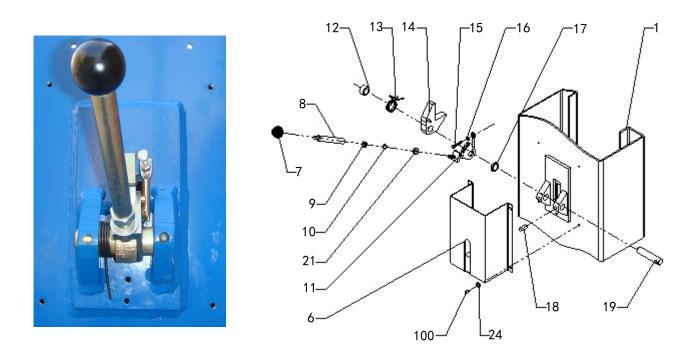


Fig. 24 Power-side safety device

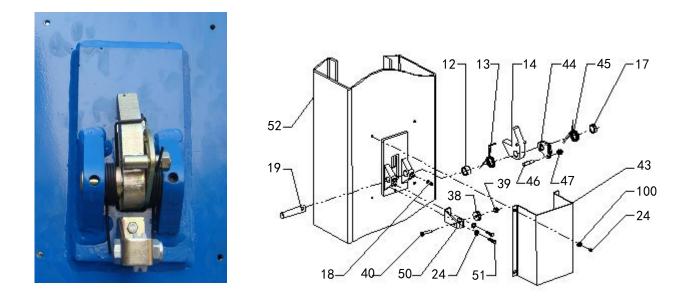


Fig. 25 Off-side safety device

K. Lift the carriages up by hand and make them be locked at the same level (See Fig. 26).

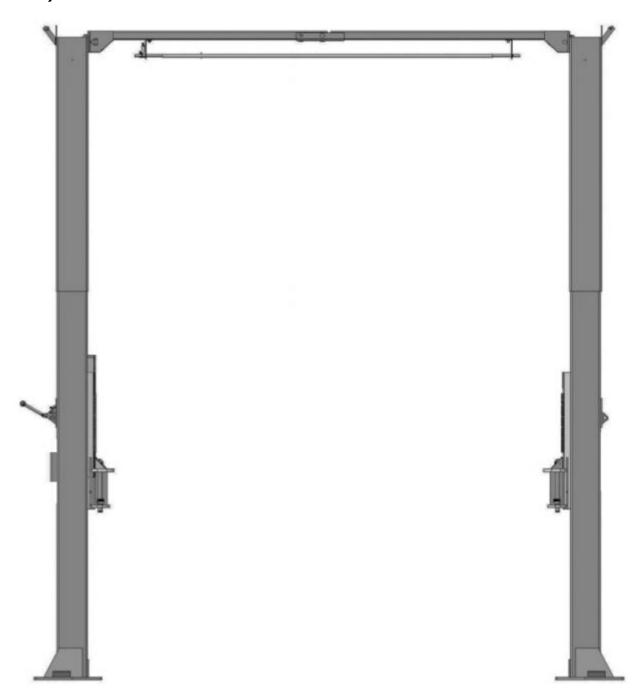


Fig. 26

L. Install cables

1. High setting cable connection.

1.1 Take out the carriages plastic cover, cable pass through from the bottom of the carriages and be pulled out from the open of carriages, then screw the two cable nuts (See Fig. 27).

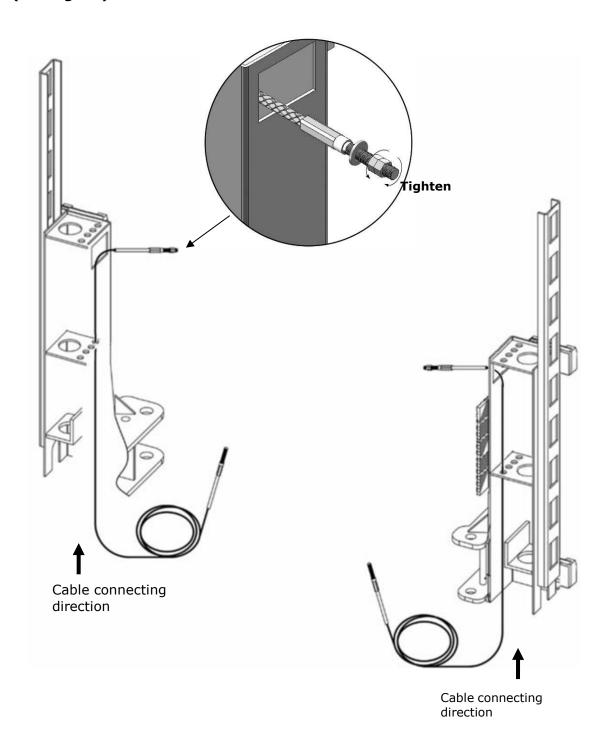


Fig. 27

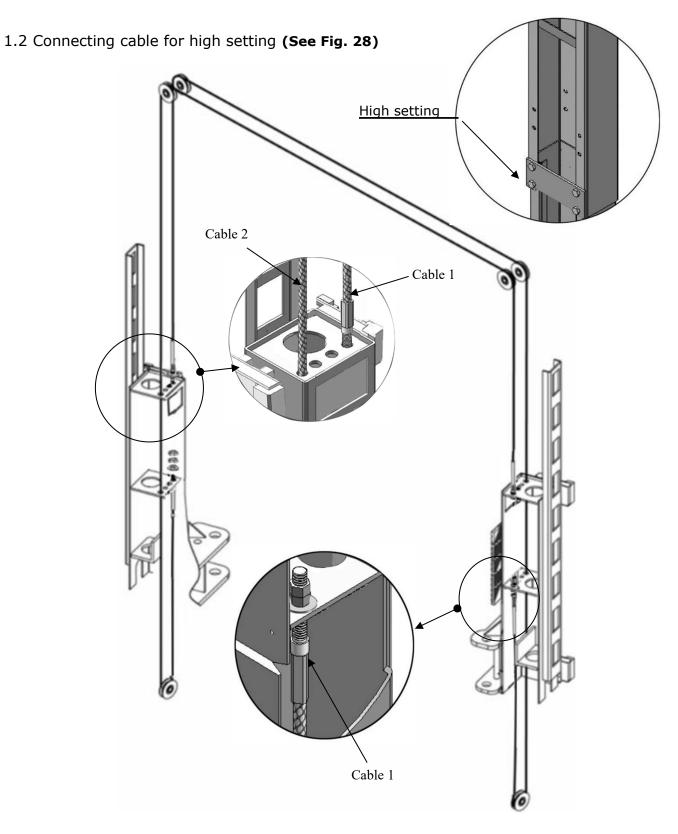
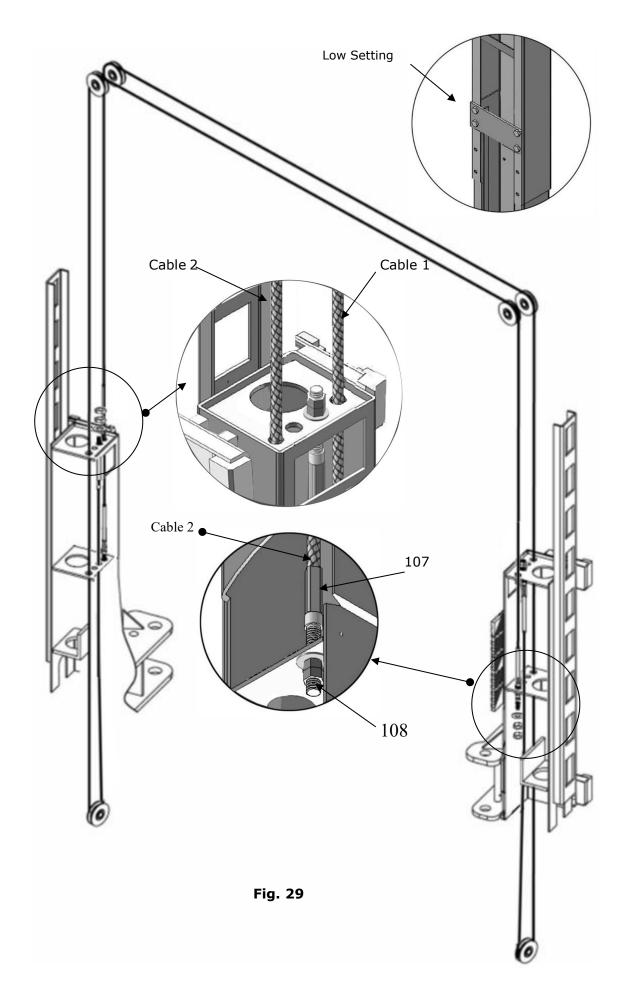
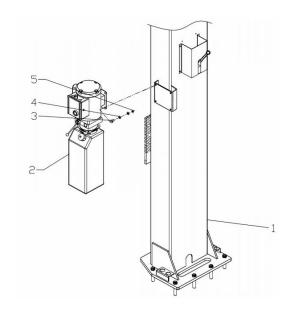


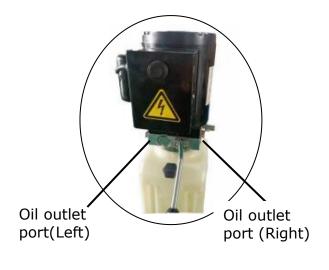
Fig. 28

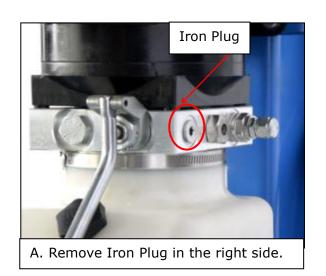
2. Low setting cable connection. (See Fig. 29).

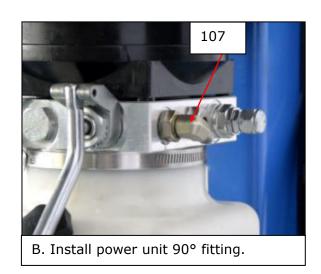


M. Install power unit (See Fig. 30)









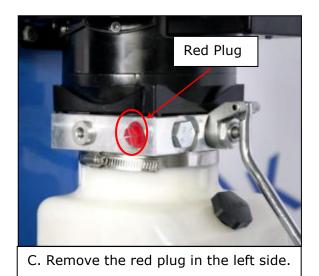




Fig. 30

N. Install oil hose (See Fig. 31)

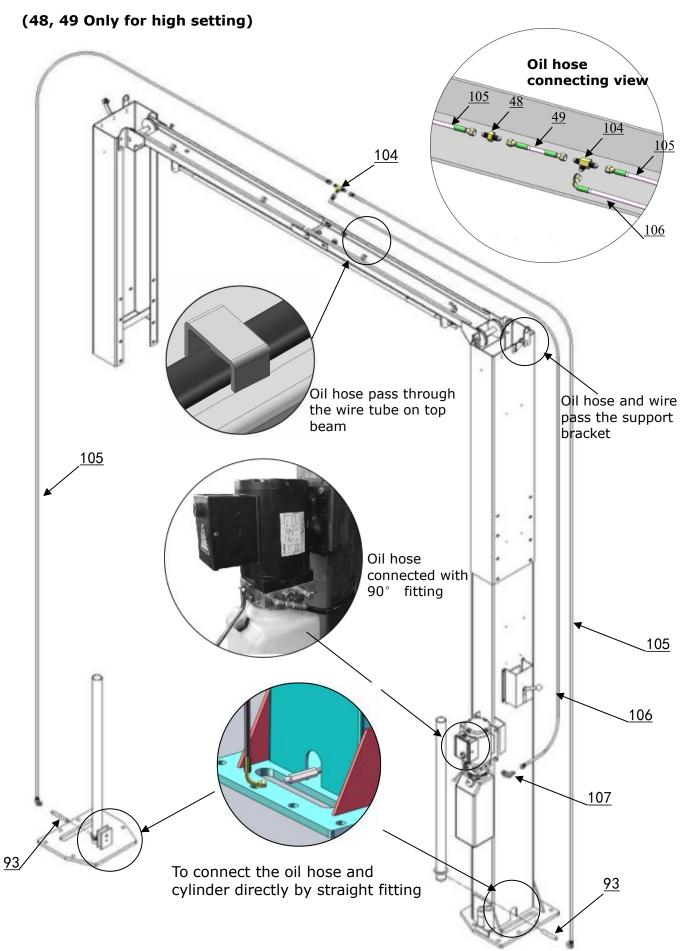
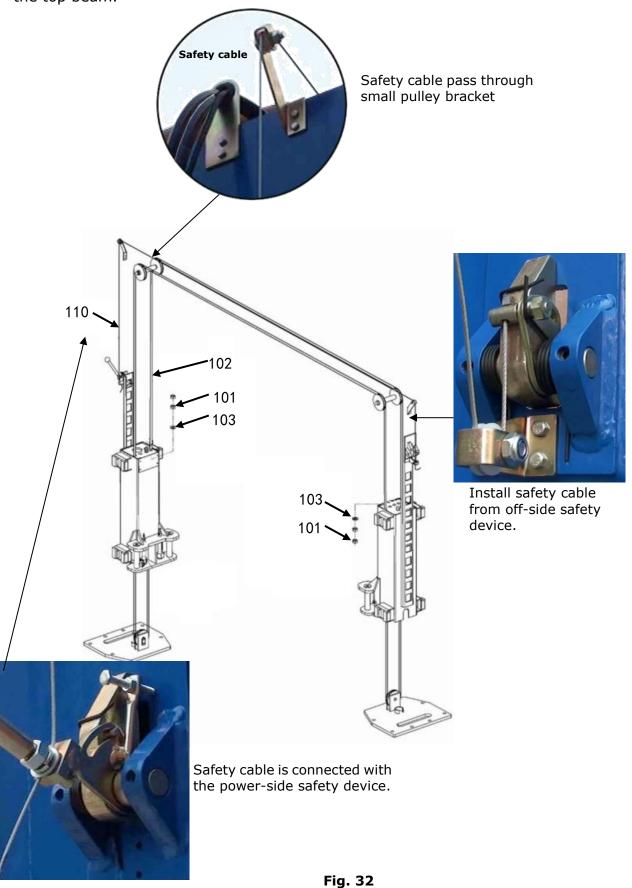
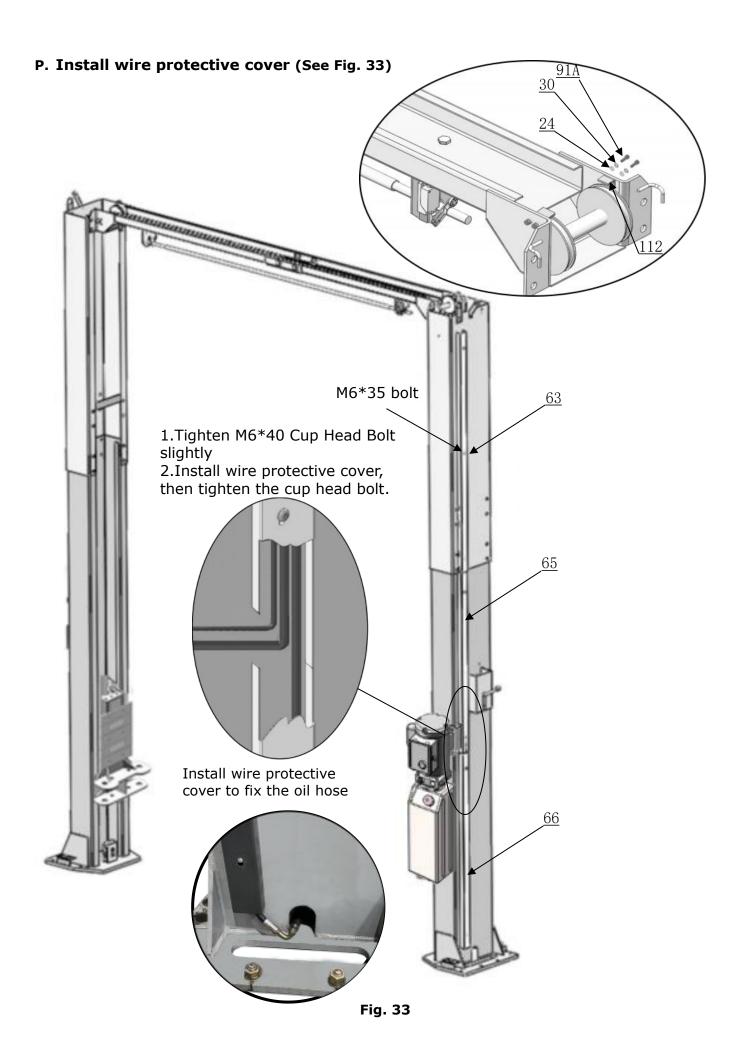


Fig. 31

O. Install safety cable. (See Fig. 32)

Install safety cable from off-side safety assy. to power-side safety assy., pass through the top beam.





Q. Install lifting arms and adjust the arm locks

- 1. Install lifting arms (See Fig. 34).
- 2. Lowing the carriages down to the lowest position, then use the $8^{\#}$ socket head wrench to loosen the socket bolt (**See Fig.35**).
- 3. Adjust arm lock as direction of arrow (See Fig.36).
- 4. Adjust moon gear and arm locks to make it to be meshed, then tighten the socket bolts of arm lock (**See Fig.37**).

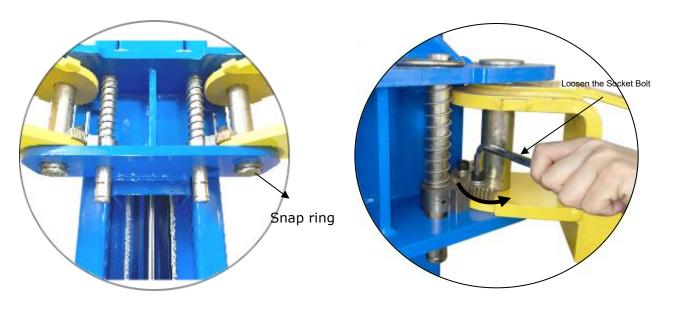


Fig. 34 Fig. 35

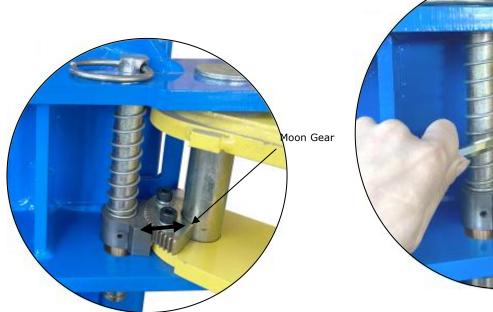


Fig. 36 Adjust moon gear



Fig. 37
Locking the bolts after moon gear and arm lock engage well.

R. Tighten all the oil hose connectors, fill with Hydraulic oil into the tank. In consideration of Hydraulic Power Unit's durability and keep the equipment running in perfect condition, please use Hydraulic Oil 46#.

S. Install electrical system

Single phase motor

- Connecting the two power supply lines to terminals of AC contactor marked L1, L2 respectively.
- 2. Connecting the two power wire of Power unit to terminals of AC contactor marked T1, T2 respectively.
- 3. Connecting A2 terminal of AC contactor to L2 terminal with a single power supply line.
- 4. Connecting Limit switch: Remove the line of connecting terminal 4# of control button and A1 of AC contactor (see Fig.38). Connecting wire 12# (brow wire) of limit switch with terminal 4# of control button; Connect wire 11# (blue wire) with terminal A1# of AC contactor. Connecting the yellow and green wire to the terminal earth wire of limit switch and terminal earth wire of power unit. (see Fig.40)
- 5. Terminal #3 of the control button is connected with the terminal L1 of the AC contactor.

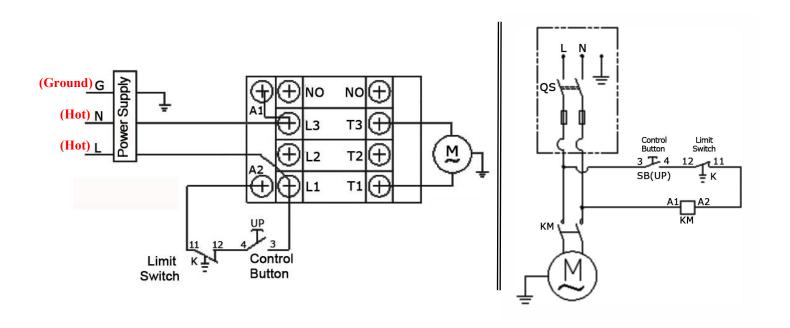
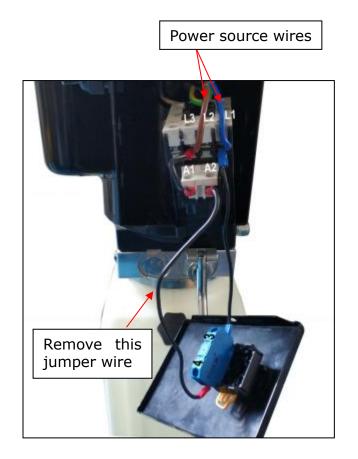


Fig. 38



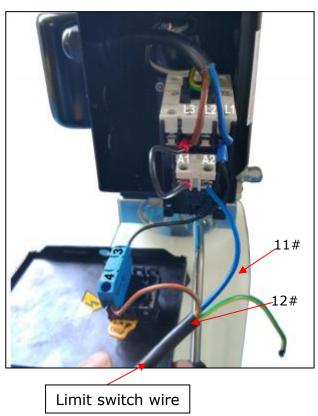


Fig. 39 Fig. 40

IV. EXPLODED VIEW

Model OH-15

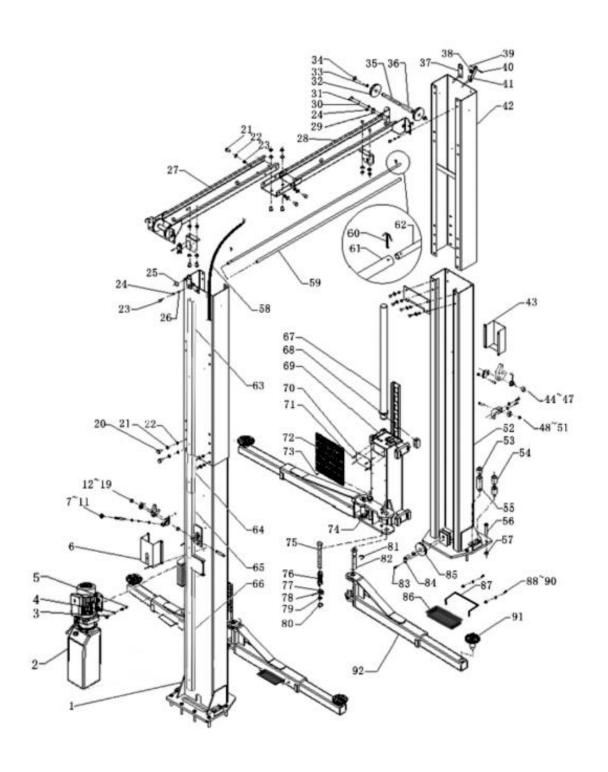


Fig. 41

PARTS LIST FOR MODEL OH-15

QTY 1 1 4 4 1 1 1 1 1 1 1 1 1	Note
1 4 4 4 1 1	
4 4 4 1 1	
4 4 1 1	
4 1 1	
1 1	
1	
1	
1	
3	
3	
2	
2	
1	
1	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

45	
47 10217033 Self locking Nut 1 48 10620079 Straight fitting 1 49 1002185001-01 Oil Hose assy. 1 50 11217029 Small Pulley Bracket 1 51 10217066 Hex Bolt M6*15 3 52 11217467 Off-side Column 1 53 11209051B Adapter 1.5" 4 54 11209052B Adapter 2.5" 4 55 11209053B Adapter 2.5" 4 56 10201140 Anchor bolt 3/4 * *6-1/2 12 57 10620065 Shim(2mm) 10 57 10620065 Shim(2mm) 10 58 10217173 Wire Cable L=4856 1 59 10206025A Foam Cushion 1 60 10201005 Split Pin φ4*50 2 61 11206129 Control bar L=2400mm 1 62 11206025C Connecting pin for control bar 2 63	
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1021/000 FIDECUIVE NUMBER Z	
73 10209019 Flat Head Screw M6*16 12	
74 11217046C Arm Lock Bar(Right)φ30*324.5 2	
75 11217046B Arm Lock Bar(Left)φ30*324.5 2	
76 10217045A-01 Spring φ31*φ36*φ2.5 (L=214.5) 4	
77 1002163001 Arm Lock M1.5*72teeth*24 4	
78 10206036-01 Hair pin φ6*45 4	
79 1102163002 Washer (φ39*4*18) 4	
80 10610008 Snap ring φ30 4	
81 10520023 Snap ring φ38 4	
82 11217047B Arm Pin 4	
83 10209038 Hex Bolt M10*16 6	
84 11217037 Bottom pulley Pin 2	
85 11217036 Bottom Pulley 2	

Item	Part#	Description	Qty.	Note
86	10206156	Tool tray	2	
87	11206154	Rear guard bar 4		
88	10201002	Hex bolt M8*16	8	
89	10209034	Lock Washer φ8	8	
90	10209033	Washer φ8	8	
91	10217114A	Rubber pad assy.	4	
91A	10420138	Socket bolt M6*16	12	
91B	10209134	Rubber Pad	4	
91C	11680030B	Rubber Pad Frame	4	
92	10217052D	Lifting Arm Assy.	4	
93	1102186001	Extend Straight Fitting(J0076) 1/4JIC(M)*3/8NPT(M)	2	
94	10209153	Ring of the arm lock handle	4	
95	11217068	Column Reinforce Plate	2	
96	10217454	Wire Cable	1	
97	10206011	Cup Head Bolt		
98	10206013	Limit switch	2	
99	11206042	Limit Bar Bracket		
100	10209009	Cup Head Bolt		
101	10209066	Cable nut M16		
102	10217452	Cable Assy. φ9.52*12540mm	2	
103	10420029	Cable shim φ16	4	
104	10211016	T-Fitting 1/4JIC(M)*1/4JIC(M)*1/4JIC(M)	1	
105	10217455-01	Oil hose Assy. 5/16*6125mm	2	
106	10217456-01	Oil hose Assy. 5/16*5130mm	1	
107	10209060	90 °fitting for power unit	1	
108	10206110	Cup Head Bolt M6*35	6	
109	10206079	Cup Head Bolt M6*40	12	
110	10217453	Safety Cable L=10370mm	1	
111	10217502B	Parts box	1	
112	1102075001	Cable restrain plate	4	

1. Lifting Arm Exploded View (10217052D)

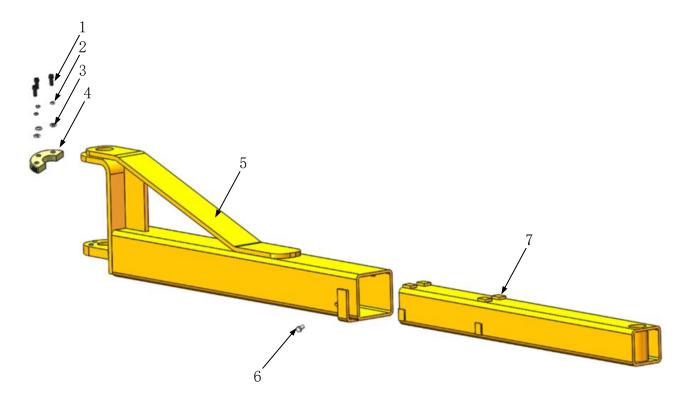
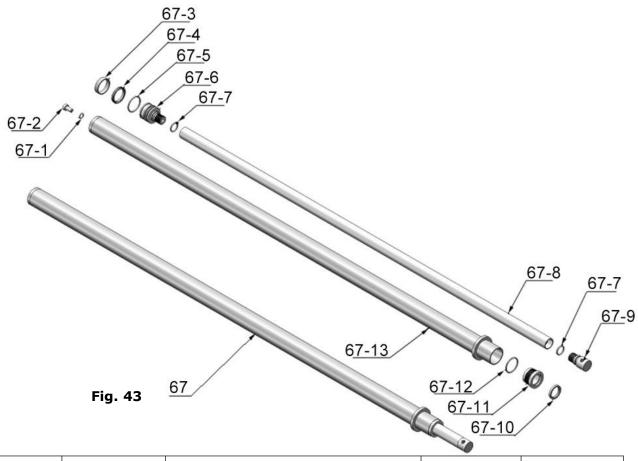


Fig. 42

Item	Part#	Description	Qty.	Note
1	1102163005	Socket bolt M12*48	12	
2	10420026	Lock washer $\Phi12$	12	
3	10206006	Washer ⊕12	12	
4	1102163001	Moon gear	4	
5	11217122	Outer arm - Rear	4	
6	10201149	Flat head screw M8*12	4	
7	11217123A	Inner arm - Rear	4	

2. Cylinders Exploded View (10217056B)



Item	Part#	Description	Qty.	Note
67-1	10209069	O-Ring	2	
67-2	10209070	Bleeding Plug	2	
67-3	10201029	Support Ring	2	
67-4	10201030	Y-Ring	2	
67-5	10201031	O-Ring	2	
67-6	11217074A	Piston	2	
67-7	10217075	O-Ring	2	
67-8	11217089	Piston rod	2	
67-9	11217077	Piston rod fitting	2	
67-10	10217078	Dust ring	2	
67-11	11217079	Head cap	2	
67-12	10217080	O-Ring	2	
67-13	11217091	Bore weldment	2	

4.3 Manual power unit Explode View (071102)

220V/60Hz, Single Phase

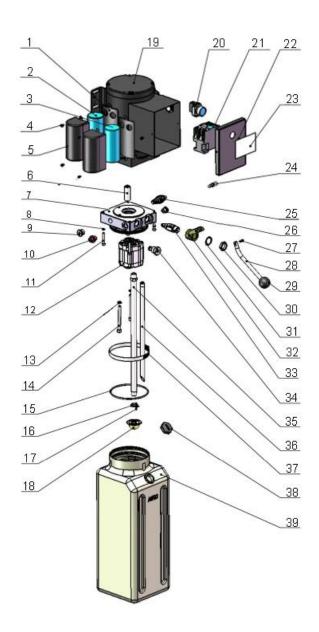
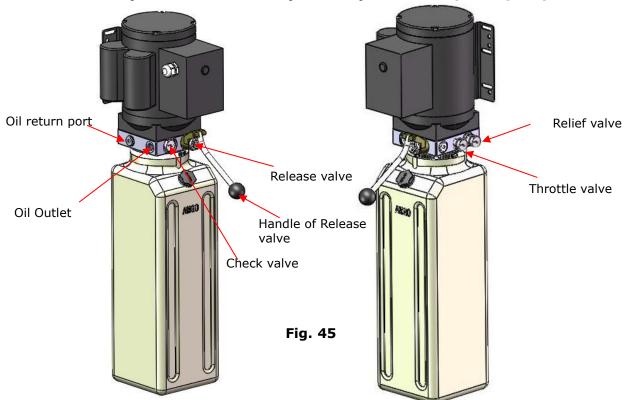


Fig. 44

tem	Part#	Description	Qty.	Note
1	81400180	Rubber Pad	2	1
2	81400250	Starting capacitor	1	2
3	81400200	Running capacitor	1	3
4	10420148	Cup Head Bolt with washer	4	4
5	81400066	Cover of Motor Terminal Box	2	5
6	81400363	Motor Connecting Shaft	1	6
7	090106	Manifold block	1	7
8	10209149	Washer	4	8
9	81400276	Iron plug	1	9
10	81400259	Red rubber plug	1	10
11	85090142	Socket bolt	4	11
12	81400280	Gear pump	1	12
13	10209034	Washer	2	13
14	81400295	Socket bolt	2	14
15	81400365	O ring	1	15
16	10209152	Ties	1	16
17	85090167	Magnet	1	17
18	81400290	Filter	1	18
19	81400413	Steel Motor	1	19
20	10420070	Push button	1	20
21	41030055	AC connector	1	21
22	81400287	Motor terminal box cover	1	22
23	71111216	AMGO power unit label	1	23
24	81400560	Throttle valve	1	24
25	81400266	Relief valve	1	25
26	81400284	Inner hex iron plug	1	26
27	10720118	Hair pin	1	27
28	81400451	Release valve handle	1	28
29	10209020	Plastic ball	1	29
30	81400421	Release valve nut	1	30
31	81400422	Shim	1	31
32	81400449	Valve Seat	1	32
33	070001	Release Valve	1	33
34	070002	Check Valve	1	34
35	81400366	Oil suction pipe	1	35
36	81400289	Oil return pipe	1	36
37	81400364	Clamp	1	37
38	81400263	Oil tank cap	1	38
39	81400319	Oil tank	1	39

Illustration of hydraulic valve for hydraulic power unit (See Fig. 45)



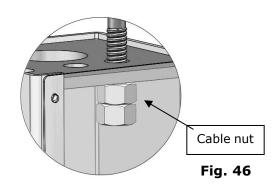
V. TEST RUN

1. Adjust synchronous cable (See Fig. 46)

Use Spanner to hold the cable fitting, meanwhile use ratchet spanner to tighten the cable nut.

Make sure two cables are with the same tension so that two carriages can work synchronously.

Fit the plastic hole cover on the lifting head.



Bleeding plug

If the carriage does not Synchronize when lifting, please tighten the cable nut.

2. Adjust safety cable

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

3. Exhaust air

This hydraulic system is designed to bleeding air by loosing the bleeding plug. Lifting the carriages to about 1 meter height, and loose the bleeding plug, the air would be bled automatically,

then tighten the plug after bleeding, the lift would work stably and smoothly, **Fig. 47** otherwise repeat bleeding (**See Fig. 47**).

4. Adjust the lower speed

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





Clockwise to decrease the lower speed.

Counterclockwise to increase the lower speed.

Fig. 48

5. 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 are anything improper, repeat the above adjustment.

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

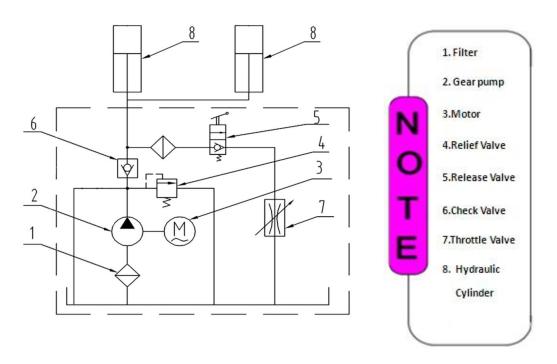


Fig. 49 Hydraulic System

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

- 7. Press button "**UP"** until the lift pads contact underside of vehicle totally. Recheck to make sure vehicle is secure;
- 8. 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. Press 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 150 Nm;
- 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.

VIII. TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY
	1. Button does not work	1. Replace button
	2. Wiring connections are not in good	2.Repair all wiring connections
Motor does not	condition	
run	3. Motor burned out	3. Repair or replace motor
	4. Height limit switch is damaged	4.Replace the limit switch
	5. AC contactor burned out	5. 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
	1. Release valve out of work	
Lift does not	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 in activated	1. Release the safeties
lift connect lower	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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