

Original

Installation And Service Manual

FOUR POST LIFT

Model:PRO-12SX,PRO-12ASX

Cargo Claims

If there is any missing or damaged product during transportation, the buyer must notate on the shipping paperwork or refuse the shipment.

NOTATE ALL DAMAGE OR REFUSE

↑ DANGER

Read the entire contents of this manual before using this product. Failure to follow instructions and safety precautions could result in serious injury or even death. Make sure all other operators also read this manual. Keep this manual near the machine so that it can be seen by all users. By proceeding with installation and operation, you agree that you are fully understand the contents of this manual and take full responsibility for the use of the product.

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Explanation of the safety warning symbols used in this manual

riangle DANGER	Risk of death or injury
	Dangerous or unsafe practices that may result in death or injury
△ CAUTION	Dangerous or unsafe practices that may result in personal injury,
	product damage or property damage
ATTENTION	Conditions that may result in damage to products or property

PROFILE

The four post lift is a commonly used vehicle repair and maintenance tool that uses a hydraulic system that can lift the car up to a certain height so that the vehicle can be placed in a suitable position for inspection and repair. Car lifts can be divided into pneumatic and electric, which have the characteristics of safe and reliable, simple structure and quick installation.

This instruction manual is specially prepared for you. Your new lift is the product of over a decade of continuous research, testing and development and is the most technologically advanced lift on the market today.

Please make sure to read through this manual before operating the lift.

Record the information on the nameplate label here:

Model No.:	
Serial No.:	
Manufacturer d	ate:

WARRANTY

The warranty period for the steel structure part of new car lift is 5 years; hydraulic components, bronze bushings, slider blocks and plastic parts are warranty for 3 years; electrical components and cables are warranty for 2 years. Rubber pads are without warranty. During the warranty period, the manufacturer will repair or replace the defective parts free of charge including shipping costs.

This warranty does not cover damage caused by normal wear and tear, improper use, damage in transit, or damage caused by lack of maintenance.

This warranty is unique and supersedes what is expressed and implied in all other warranties. The manufacturer shall not be liable for any particular, indirect or accidental damage resulting in breach of or delay in the execution of the warranty. The manufacturer reserves the right to design and improve the product and has no obligation to make notice of the changes in advance. The product warranty based on the above clause is based on the model number and serial number of the equipment. This information must be provided in conjunction with all warranty information at the time of service and warranty.

SAFETY WARNING LABEL



IMPORTANT SAFETY INSTRUCTIONS

In order to properly maintain your product and ensure operator safety, it is the responsibility of the product owner to read and follow these instructions!

- Ensure product installation complies with all applicable local regulations and rules, such as
 Occupational Safety and Health Administration regulations and electrical codes.
- 2. Ensure that all operators are properly trained, know how to operate the unit safely, and are properly supervised.
- 3. Do not operate the lift until you are sure all parts are in place and operating correctly.
- 4. Keep your hands and feet away from the machine. Keep hands and feet away from any moving parts. Keep your feet away from the lift as it descends to avoid pressing on pointed objects.
- 5. Keep the work area clean. A cluttered workspace can lead to injuries.
- 6. The machine is only approved for indoor installation and use. Outdoor installation is prohibited.
- 7. Only trained operators are allowed to handle the lift machine. All untrained persons must stay away from the workplace. Never allow untrained persons to handle or operate the machine.
- 8. Use the lift properly. Use the lift in the correct way.
- 9. Warning! Keep persons and objects from the lift when lifting the a vehicle.
- 10. If the vehicle is at risk of falling, make sure no one is around the lift.
- 11. Before preparing to approach or service the vehicle, ensure that the safety device is in effect.
- 12. Dress appropriately when operating machines, and consider wearing non-slip steel-toe shoes for added safety.
- 13. Beware of electric shock. In order to protect the operator from electric shock, the lift in use must be grounded. Do not connect the green wire to the terminal. This is the ground wire.
- 14. Danger! The power supply used in this type of lift has high voltage. Please disconnect the power supply before any circuit repair. Unplug in case the power supply is accidentally switched on during maintenance.
- 15. Warning! There is a risk of explosion. There are parts in the equipment that produce arc light and spark. Do not operate near flammable gas. This machine should not be placed in the lounge or basement.

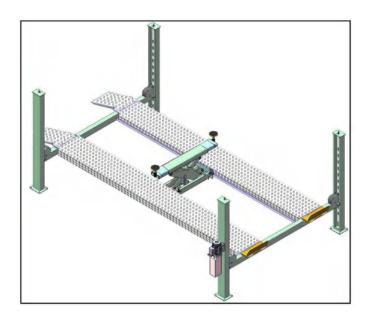
- 16. Maintain with care. Keep the machine clean for better and safer operation. Perform proper lubrication and maintenance procedures according to the manual. Keep handles or buttons clean, dry, and free of oil.
- 17. Stay alert. Use common sense to observe what you are doing and stay alert.
- 18. Check for damaged parts. Check for adjustments to moving parts, damage to parts, or anything that may affect their operation. Do not use the machine if the parts are damaged.
- 19. Do not remove relevant safety parts from the machine. Do not use a lift if it is damaged or missing.
- 20. Only operate the lift at temperature between 41°F to 104°F (5°C to 40°C).

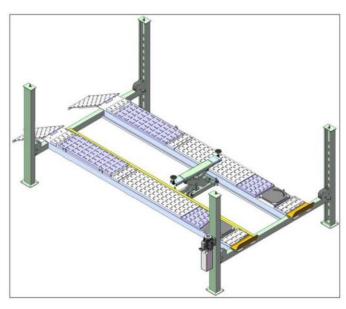
⚠ DANGER Be very careful when installing, operating, maintaining or repairing this equipment. Failure to comply may result in property damage, product damage, injury or (in very rare cases) death. Ensure that only authorized personnel operate the equipment. All repairs must be carried out by an authorized technician. Do not modify the machine, this voids the warranty and increases the probability of personal injury or property damage. Ensure to read and follow this instructions on the label.

I. PRODUCT FEATURES AND SPECIFICATIONS

FEATURES

- Manual-air control operation system.
- Mechanical self-lock and air-drived safety release.
- Manual hydraulic power system,cable-drived.
- Non-skid diamond platforms.
- Adjustable platform and adjustable safety lock ladders.
- Optional Jack: With hand pump or pneumatic pump.
- Optional Turnplates: (Only for PRO-12ASX)





PRO-12SX Fig.1

PRO-12ASX Fig.2

MODEL PRO-12SX(ASX) SPECIFICATIONS

Model	Lifting Capacity	Lifting Time	Overall Length (Incl. Ramps)	Overall Width	Width between columns	Max. Lifting Height	Max. Locking height
PRO-12SX	12,000lbs	45S	232 5/8"	132 1/8"	118 1/8"	73 5/8"	70 7/8"
PRO-12ASX	12,000lbs	45S	232 5/8"	132 1/8"	118 1/8"	75 9/16"	72 13/16"

Model	Overall Height	Minimum Height	Max. height underneath runways	Max. Locking height underneath runways	Drive-Thru Clearance	Width Between Runways	Outside Edge of Runways	Motor
PRO-12SX	86"	6 5/8"	68 1/8"	65 3/8"	104 1/8"	43 1/4"	83 1/4"	2.0HP
PRO-12ASX	86"	8 5/8"	68 1/8"	65 3/8"	104 1/8"	43 1/4"	83 1/4"	2.0HP

II. INSTALLATION REQUIREMENT

A. TOOLS REQUIRED

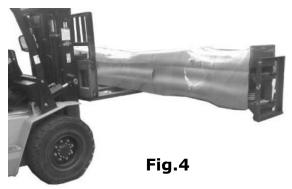


Fig.3

B. Equipment storage and installation requirements.

- 1 . Store the equipment in a dry, non-moldy, non-flammable environment.
- 2 . The lift is generally approved for indoor installation and use. If need outdoor installation, the optional motor protect cover is required.
- 3 . When installing the device, take safety precautions according to the instructions to avoid device damage.
- 4 . During installation, all parts should be fastened to ensure the stability and smooth operation of the machine.
- 5 . After installation, the whole machine should be checked to make sure that every component is working properly.

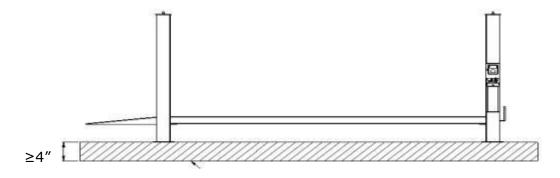
C. The equipment should be unloaded and transferred by forklift.



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 4" minimum and without reinforcing steel bars, and must be dried completely before the installation.
- Concrete must be in good condition and must be of test strength 3000PSI minimum.Solidify at least 15 days.
- 3. Floors must be level and no cracks.



Concrete intensity must be 3000PSI

E. AIR SUPPLY

Air pressure requirement: 0.8Mpa, air line size $\emptyset 8 \times \emptyset 6$ and $\emptyset 6 \times \emptyset 4$.

F. POWER SUPPLY

- 1. You are required to use a licensed and qualified electrician for the installation process.
- 2. The power supply capacity must be more than 2.0HP, with a cord larger than 12AWG, and must be properly grounded.

PANGER All electrical wiring must be performed by a licensed and certified electrician. Attempting to connect the circuit without proper certification may result in damage to the lift or electrocution, resulting in serious injury or death.

III. INSTALLATION STEPS

A. Location of installation

Check and insure the installation location (concrete, layout, space size etc.) is suitable for lift installation.

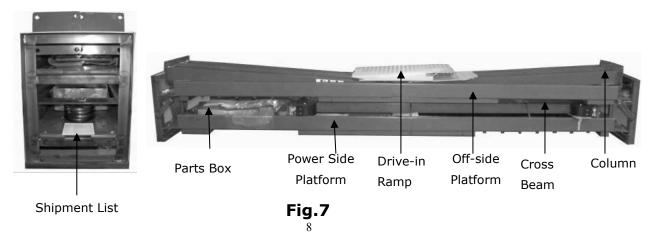
B. Check the parts before assembly.

1. Packaged lift and hydraulic Power Unit (See Fig. 6).



Fig.6

2. Remove the package, check the parts according the shipment list. (See Fig. 7).



3. Move the columns and drive-in ramps aside to the installation position. (see Fig 8)



Fig.8

- 4. Loose the screws of the upper package stand, take off the off-side platform, take out the parts inside the power side platform, then remove the package stand.
- 5. Move aside all the parts to the installation position and check the parts according to the parts list (See Fig. 9, Fig.10).



PRO-12SX Fig.9



6. Check the parts of parts box according to the parts box lift . (See Fig. 11).



Fig.11

7. Check the parts of the parts bag according to the parts bag list (See Fig. 12).

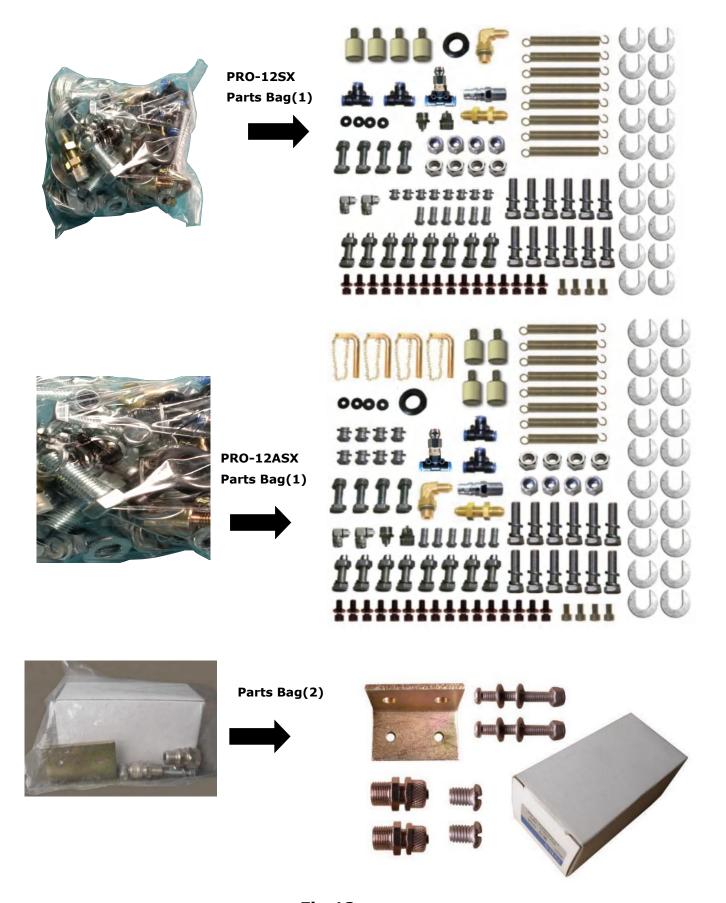


Fig.12

C. Use a carpenter's chalk line to establish installation layout (see Fig.13) . Place the posts according to the installation dimension.

Note: Reserve space front and behind the installation site.

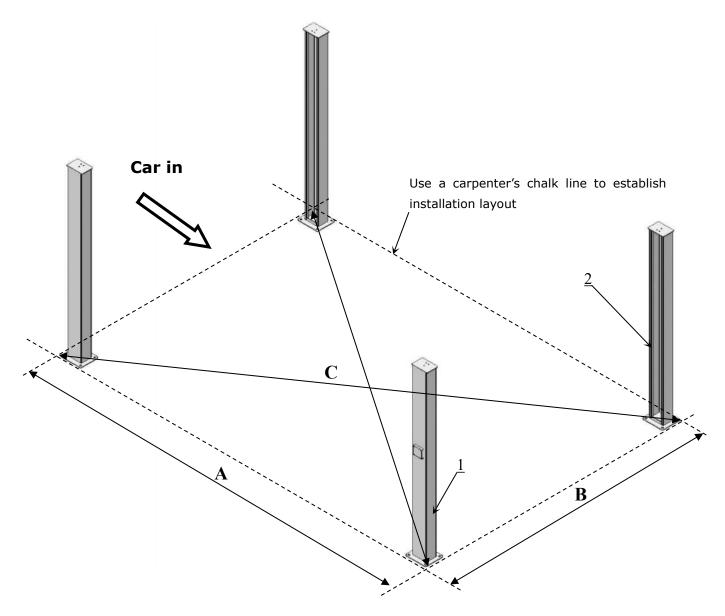


Fig.13

Model	A	В	С
PRO-12SX PRO-12ASX	196-3/4″	132-1/8″	237″

D. Install cross beams (See Fig.15 & 16).

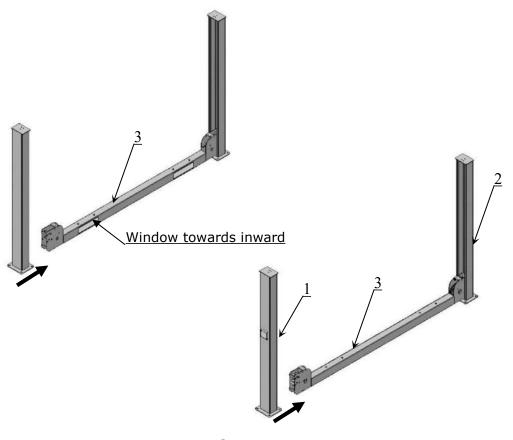


Fig.14

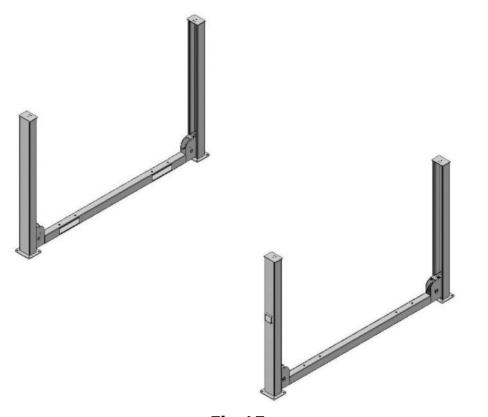


Fig.15

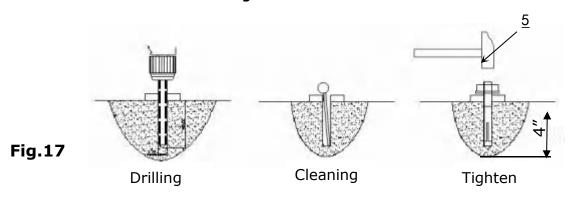
E. Fix anchor bolts.

1. Prepare the anchor bolts (See Fig. 16).



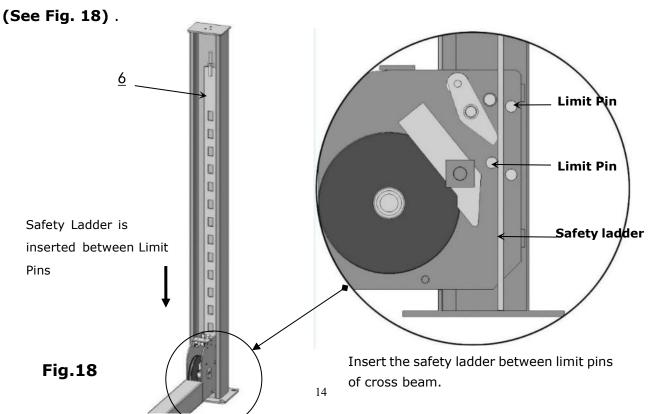
2. Using the prescribed rotary hammer drill, and drill all the anchor holes and install the anchor bolts. Do not tighten the anchor bolts (See Fig. 17).

Note: Anchor bolts driven into the ground at least 4".

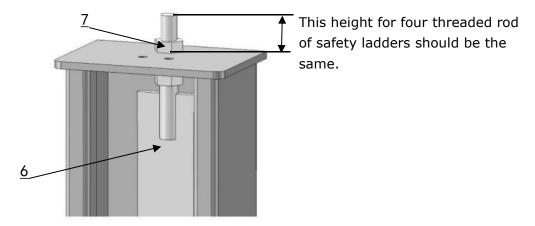


F. Install the safety ladders

1. Take off the pulley safety cover and unscrew the four upper nuts of the Safety ladders, and then adjust the four lower nuts to be at the same position, then install the safety ladders



2. Install safety ladders (See Fig. 19).



Safety ladder pass through the hole of the top plate, then tighten the two nuts

Fig.19

G. Put the cross beams at the same height (See Fig. 20).

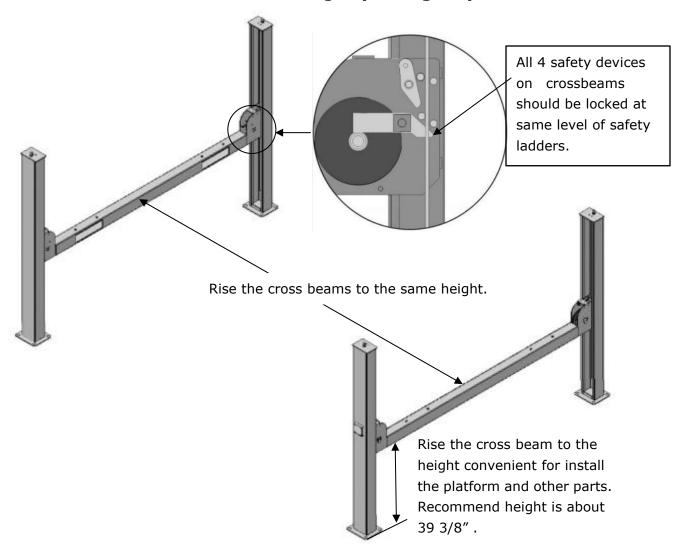
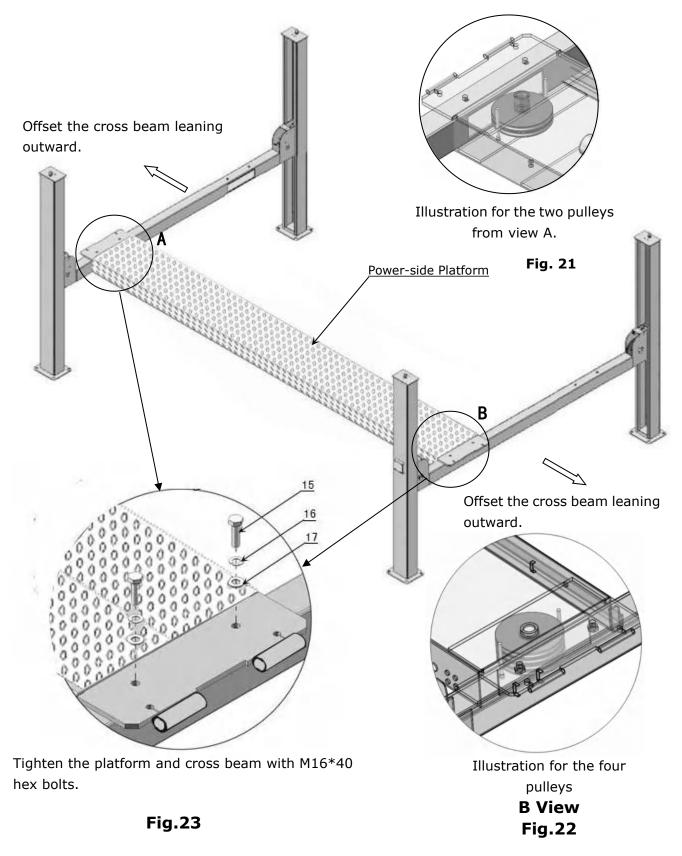


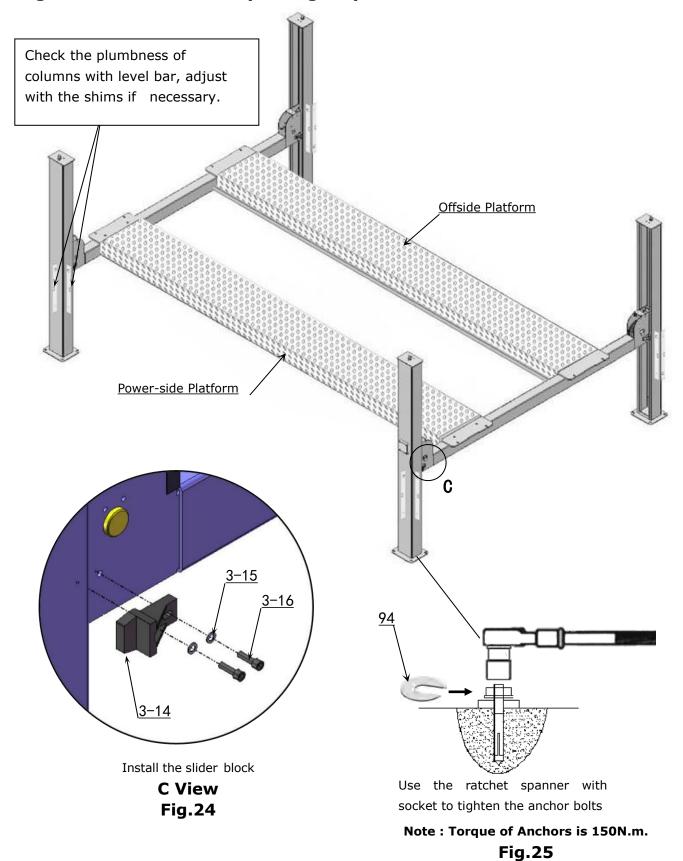
Fig.20

H. Install power-side platform.

1. Put the power-side platform upon the cross beams by forklift or manual, offset the cross beams to the outside till the pulleys of both platforms can set up into the cross beam (See Fig.21,22), Install the power-side platform and screw up the bolts (See Fig.23).



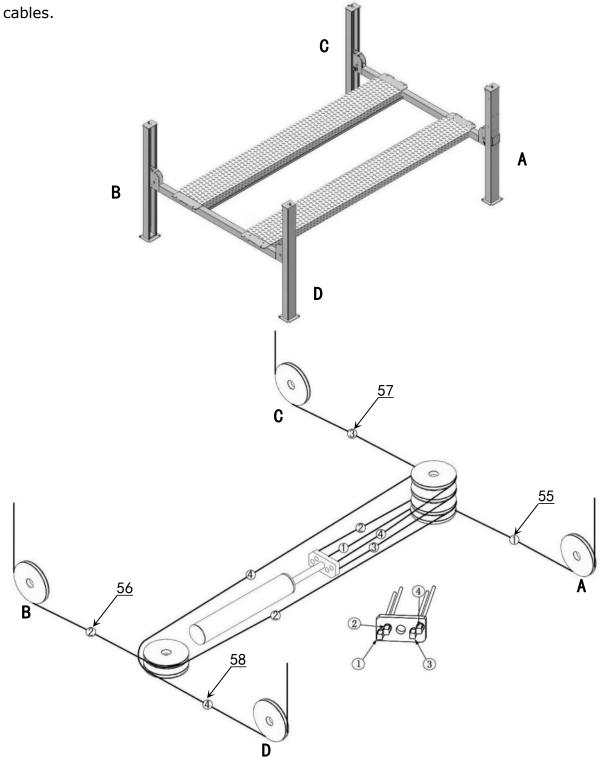
I. Assembly offside platform and slider block, (See Fig. 24) check the plumb ness of columns with level, adjusting with the shims if not, and then tighten the anchor bolts (See Fig. 25).



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J. Illustration for cable installation (See Fig. 26).

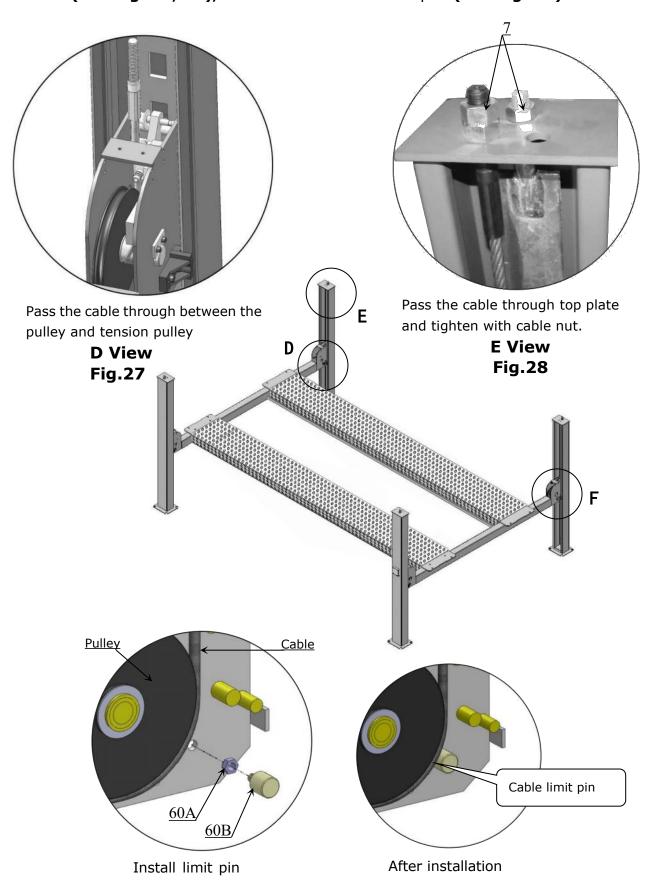
1. Pass through the cables from the platform to the columns according to the number of the



Cables Installation Fig.26

No. Cable	1	2	3	4
Length (w/fitting)	146-5/8"	398-5/8"	209-5/8"	335-3/8"

2. The cable pass through the cross beam to top plate of columns and be screwed with cable nuts (See Fig. 27, 28), then install the cable limit pin. (See Fig. 29)



F View Fig.29

7. Illustration for platform cables (See Fig. 30, 31, 32).

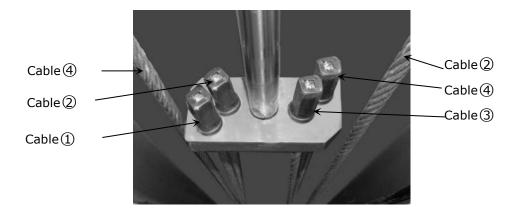


Fig.30

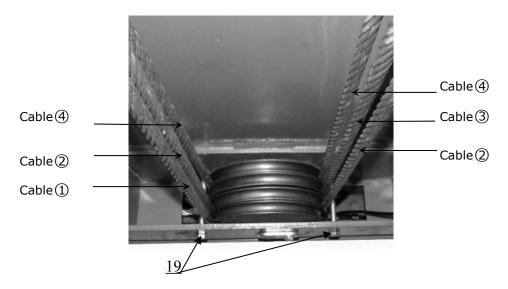


Fig.31

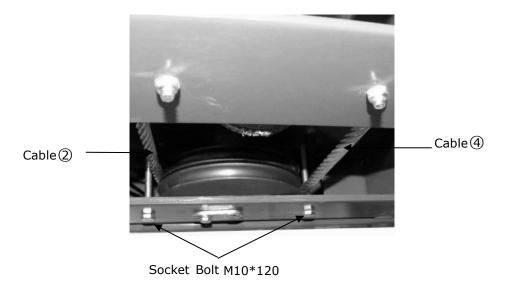


Fig.32

K. Install oil-water separator, manual control air valve and power unit (See Fig. 33)

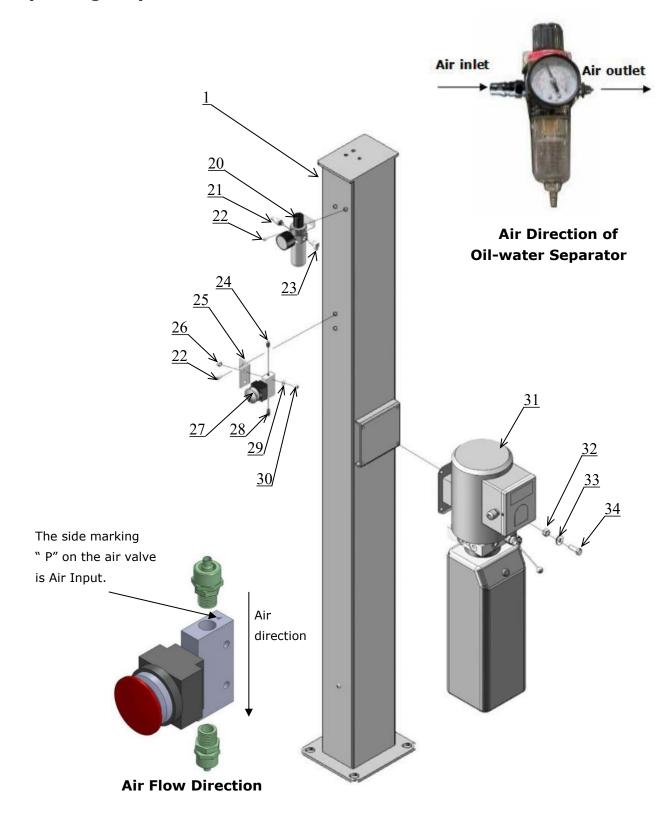
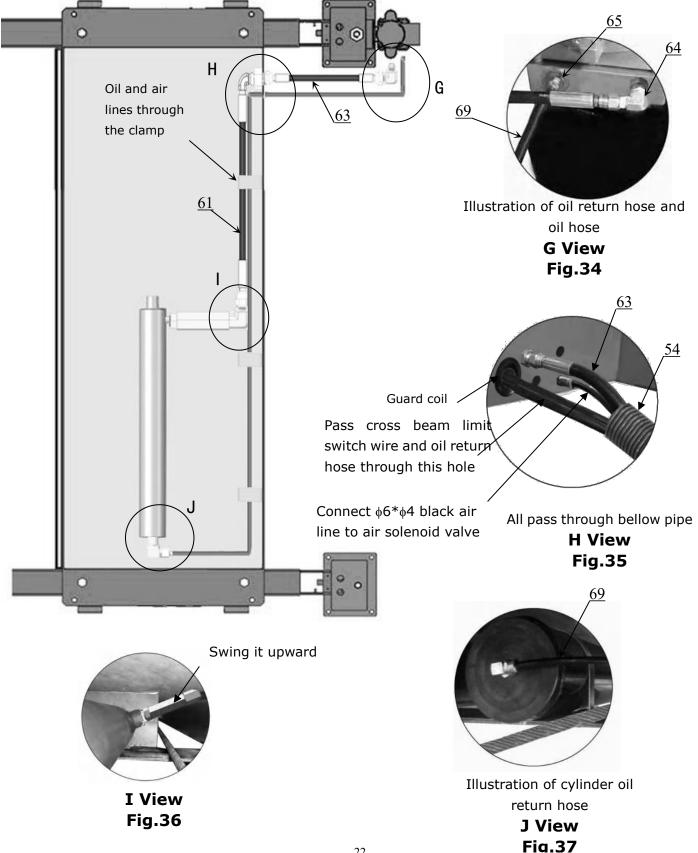


Fig.33

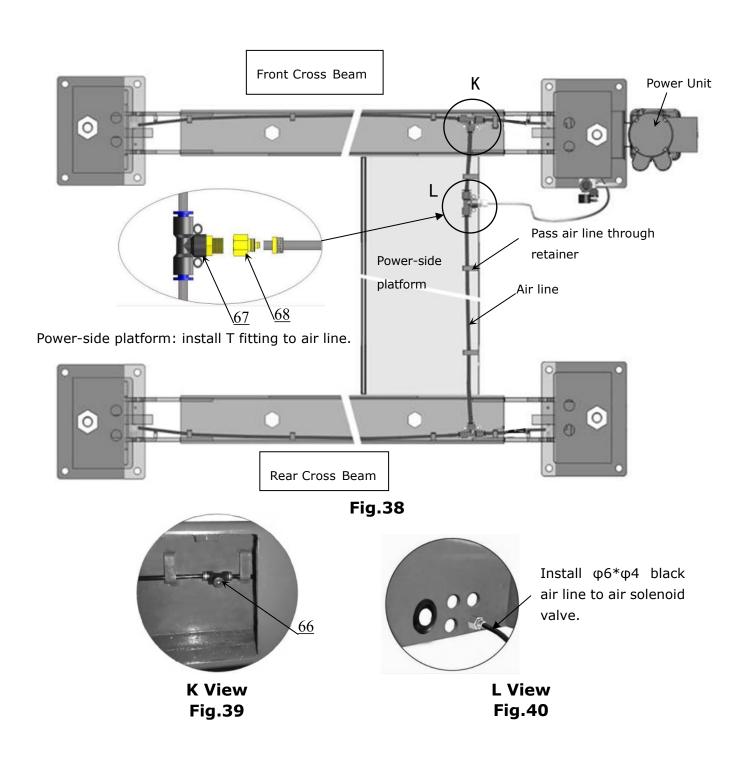
L. Install hydraulic system.

Note: Oil hoses and oil return pipe connected to oil cylinder must be passed above the cable and cylinder inlet port must swing upward to avoid the oil hose and oil return pipe scratched by cable.



M. Install air-line system

- 1. Connect the front and rear cross beam with $\phi 6*\phi 4$ black air line (the actual length of air line can be cut by user) (See Fig.38)
- 2. Use scissors to cut off the $\phi 6*\phi 4$ black air line from the middle between two retainers, and then connect to the T fitting. (See Fig. 39).
 - 3. Connect $\phi 6*\phi 4$ air line to the solenoid valve (the actual length of air line can be cut by user) (See Fig. 40).



8. Connecting Oil-water separator and Manual control air valve using air line (See Fig. 41).

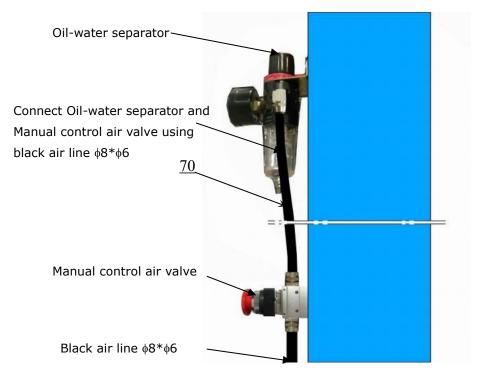


Fig.41

5. Connect to the air source (Air supply pressure 5-8 kg/cm²), adjust the air pressure of Oil-water separator to 0.8 MPa (See Fig. 42) .

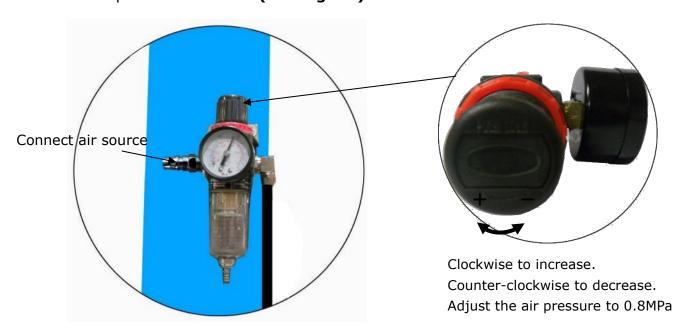


Fig.42

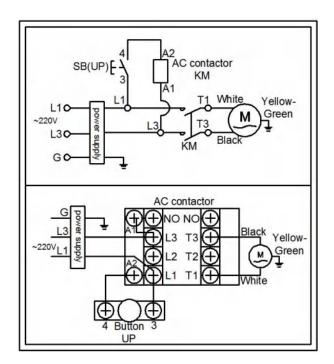
N. Install Electrical System

Connect the power source on the data plate of Motor.

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

Single phase motor (See Fig. 43)

Connect the two power supply wire (fire wire L1 and L3) to terminals of AC contactor marked L1, L3 respectively. Connect the earth wire to earth strip.



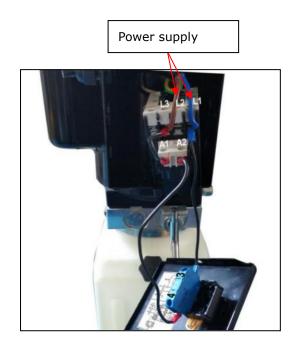


Fig.43

DANGER All electrical wiring must be performed by a licensed and certified electrician. Before ensuring the main power has disconnected from the lift and cannot be re-applied until all procedures have been completed, don not perform any maintenance or installation to the lift.

DANGER Do not use the lift if the wires are damaged or severely worn. If the vehicle rises without noticing damage or extreme wear, carefully lower the vehicle to the ground. Once the lift is on the ground, remove it, disconnect the power, and arrange for protection.

O. Install spring and safety cover of cross beam (See Fig. 44).

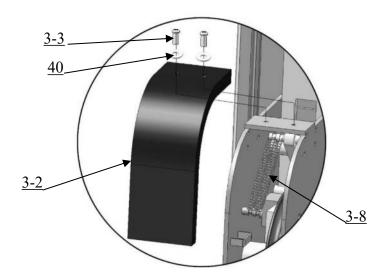
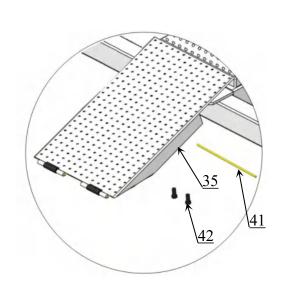
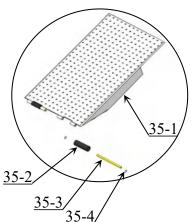


Fig.44

P. Install drive-in ramp, tire stop plate, platform lock plates, Limit rod (See Fig. 45).



Install Drive-in Ramp

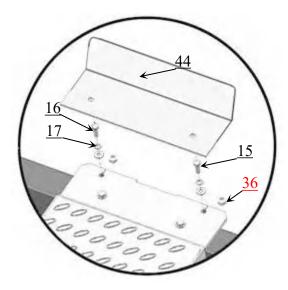


Exploded view of Drive-in ramp assy.

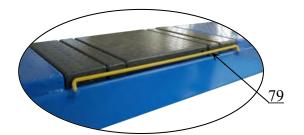
Fig.45

Item	Part#	Description	QTY
25 1	1104013001A	Drive-in Ramp (PRO-12SX)	2
35-1	1104223004A	Drive-in Ramp (PRO-12ASX)	2
35-2	11610667	Roller	4
35-3	11620043	Pin	4
35-4	10209010	Clip Ring φ10	8

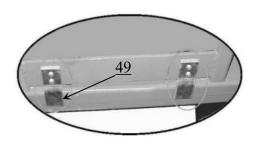
Q. Install stop plate, turnplate adjusting block, limit rod and lock plate.(See Fig. 46)



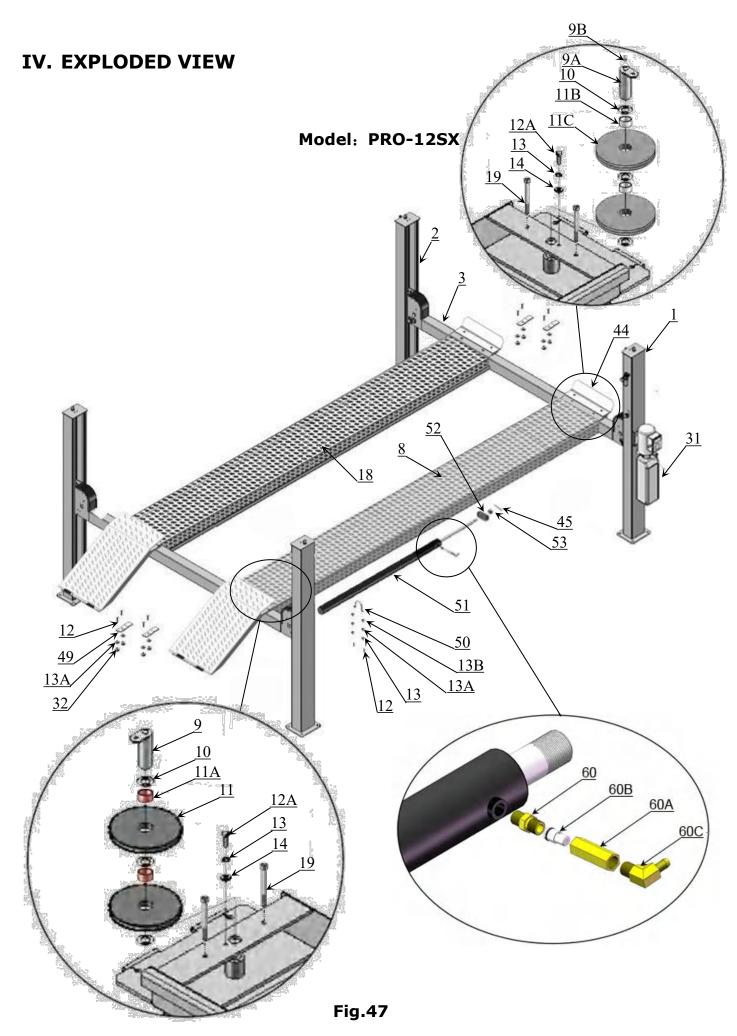
Install stop Plate **Fig.46**

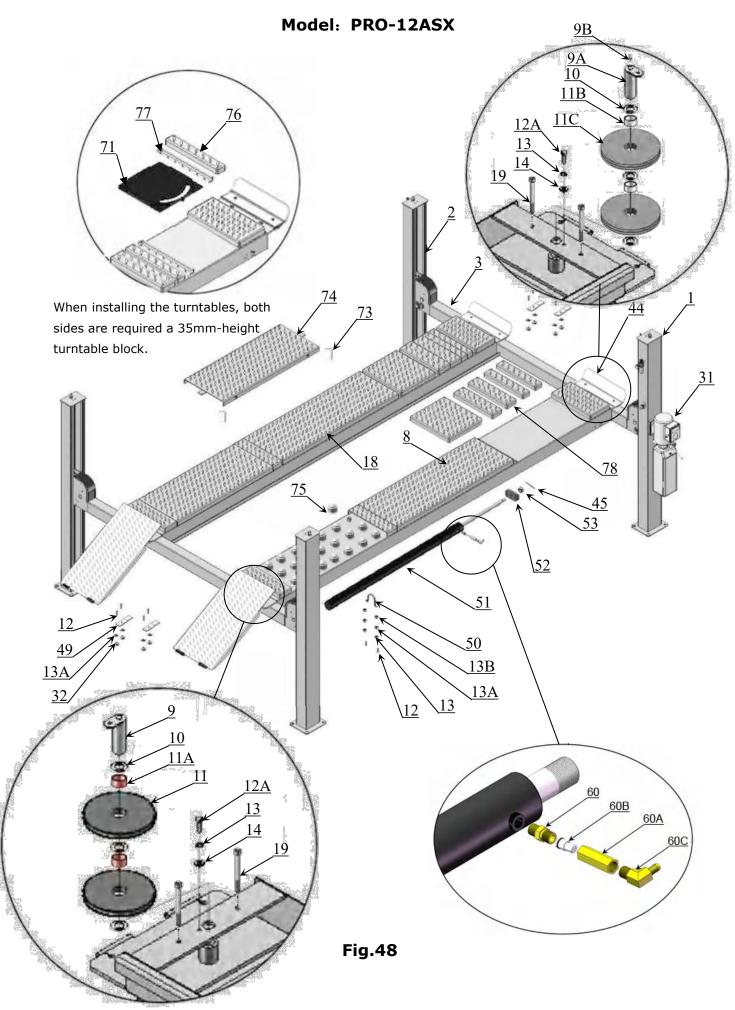


After install the turnplate cover and adjustable blocks, install the limit rod.



Install the lock plate to the off side platform with M8*20 hex bolt and nylok nut.





PARTS LIST FOR PRO-12SX, PRO-12ASX

Item	Part#	Description	PRO-12SX	PRO-12ASX
1	11420011A	Power-side Column	1	1
2	11420002	Offside Column	3	3
3	1104062001C	Cross Beam Assy.	2	2
5	10209059	Anchor Bolt 3/4*5-1/2	16	16
6	11410022	Safety Ladder	4	4
7	10420175A	Hex Nut M20	16	16
0	11490001-01	Power-side Platform	1	0
8	11496001-01	Power-side Platform	0	1
9	11420022A-01	Pulley Pin	1	1
9A	1104013003A	Pulley Pin	1	1
9B	10620064	Greasing Fitting	1	1
10	10420023A	Flat Washer φ36*φ65*2.8	14	14
11	11420024B	Pulley 7 7/8"×13/16"	6	6
11A	10420132A	Bronze Bush for Pulley 1 5/8"×1 3/8"×13/16"	6	6
11B	1004014005	Bush 1 3/8"×1 9/16"×1 3/16"	2	2
11C	1104013004	Pulley 7 7/8"×1 3/16"	2	2
12	10209043	Hex Bolt M8*20	10	10
12A	1004534009	Hex Bolt M8*20(8.8 Class)	2	2
13	10209034	Lock Washer φ8	4	4
13A	10209033	- Flat Washer φ8	10	10
13B	10217002	Hex Nut M8	2	2
14	10420144	Flat Washer φ8*φ25*3	2	2
15	10420030	Hex Bolt M16*40	12	12
16	10420137	Lock Washer φ16	12	12
17	10420029	Flat Washer φ16	12	12
	11490002	Offside Platform	1	0
18	11496002	Offside Platform	0	1
19	10600015	Socket Bolt M10*120	4	4
20	10420145	Oil-water Separator AFR-2000	1	1
21	1004334013	Quick Fitting (1/4NPT)	1	1
22	10209009	Round Head Bolt M6*8	4	4
23	10420076	90° Fitting	1	1
24	10420159	Straight Fitting for Air Line	1	1
25	11420160	Mounting Plate of Manual Control Valve	1	1
26	10420161	Nylok Nut M4	2	2
27	10420162	Manual Control Air Valve	1	1
28	10420163	Straight Fitting	1	1
29	10420148	Flat Washer φ4	4	4
30	10420164	Round Head Bolt M4*30	2	2
31		Manual Power Unit	1	1
32	10209005	Nylok Nut M8	14	14
33	10209004	Rubber Ring φ8*20*3	4	4

Item	Part#	Description	PRO-12SX	PRO-12ASX
34	1061K050	Hex Bolt M8*30	4	4
25	1104013001C	D. i. i. B	2	0
35	1104223004C	Drive-in Ramp assy.	0	2
36	10209066	Hex Nut M16	4	4
39	10420156	Protecting Ring	1	1
40	10420045	Flat Washer φ6	20	20
41	11420004	Pin for Drive-in Ramp	2	2
42	10420005	Set screw M5*8	4	4
42	10420502	Parts Box	1	0
43	10430501	Parts Box	0	1
44	11420031-1	Tire Stop Plate	2	2
45	10201005	Cotter Pin φ4*50	1	1
4.5	10620065	Shim 2mm	20	20
46	10201090	Shim 1mm	20	20
47	10209056	Nylok Nut M10	4	4
48	11420217	Cable Limit Pin	4	4
49	11420007	Lock plate	4	4
50	11410090	·		1
51	10410081	Cylinder	1	1
52	1104573005	Cable Connecting Plate	1	1
53	10420014	Hex Nut M27	1	1
54	10420016B	Bellow pipe 19/16"×1/16"×59 1/16"	1	1
55	10490005	No.① Cable L=146 5/8"	1	1
56	10490006	No.② Cable L=398 5/8"	1	1
57	10490004	No.③ Cable L=209 5/8"	1	1
58	10490003	No.4 Cable L=335 7/16"	1	1
59	10420166	90° Fitting	1	1
60	11420243	Transition Fitting	1	1
60A	10420245	Straight Fitting	1	1
60B	10209119	Compensation Valve	1	1
60C	10201020	90° Fitting	1	1
61	10490007	Oil Hose	1	1
62	10420120	Extended Straight Fitting (with Nut)	1	1
63	10207026	Oil Hose L=59 13/16"	1	1
64	10209060	90° Fitting	1	1
65	10420095	Straight Fitting	1	1
66	10420124	T Fitting	2	2
67	10420242	T Fitting	1	1
68	10420241	Straight Fitting	1	1
69	10420195	Oil Return Hose 1/4"×3/16"×224 7/16"(Black)	1	1

Item	Part#	Description	PRO-12SX	PRO-12ASX
69A	10420131C	Air line 1/4"×3/16"	1	1
70	10420167A	Air line 5/16"×1/4"×18 1/8"	1	1
71	1040101	Turnplate(Optional)	0	2
72	11430004	Turnplate Cover	0	2
73	11520037	Pin	0	4
74	11480028	Slip plate	0	2
75	10420157	Steel ball set	0	54
76	11480033	Turnplate Block 19"×3"×2"	0	4
77	11480045	Turnplate Block 19"×1 3/8"×1 3/8"	0	4
78	11480082	Turnplate Block 19"×5 9/16"×2"	0	4

4.1 Cross Beam (10480040)

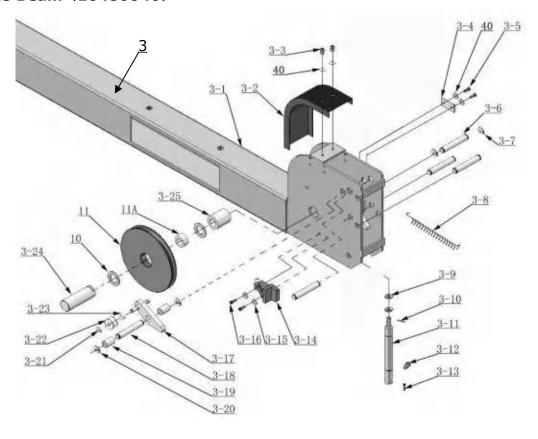


Fig.49

Item	Part#	Description	QTY	Item	Part#	Description	QTY
3-1	11480023	Cross Beam	2	3-14	10420042	Slider block	8
3-2	10420051B	Protective cover	4	3-15	10209033	Flat Washer φ8	16
3-3	10209009	Round Head Bolt M6*8	8	3-16	10420043	Socket Bolt M8*20	16
3-4	11420044	Limit Block	4	2 17	11480114	Safety block 2(left)	2
3-5	10420138	Socket Bolt M6*16	8	3-17	11480115	Safety block 2(Right)	2
3-6	11420038	Pin φ16	12	3-18	11420171	Pin φ19	8
3-7	10420037	Clip Ring φ16	24	3-19	11420172	Pin Bush	8
3-8	10480113	Spring	8	3-20	10206019	Clip Ring φ19	16
3-9	10209021	Hex Nut M10	8	3-21	10209010	Clip Ring φ10	4
3-10	10420049	Cotter Pin φ2*16	4	3-22	10420035	Tension Pulley	4
3-11	10420048	Air Cylinder	4	3-23	11420174	Spacer	4
3-12	10420047	Fitting for Air Cylinder	4	3-24	11420041A	Pulley Pin	4
3-13	10420046	Cotter Pin φ4*30	8	3-25	11420040A	Pulley Bush	4

4.2 Cylinders (10410081)

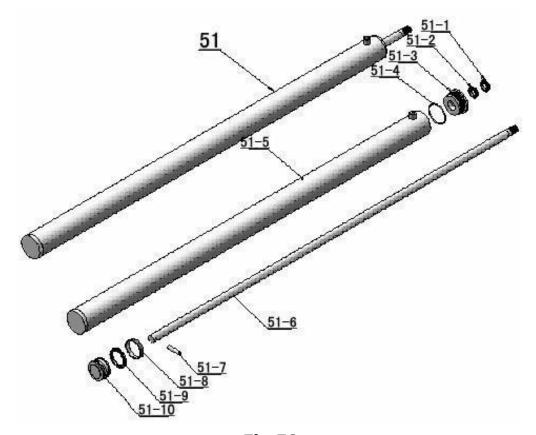
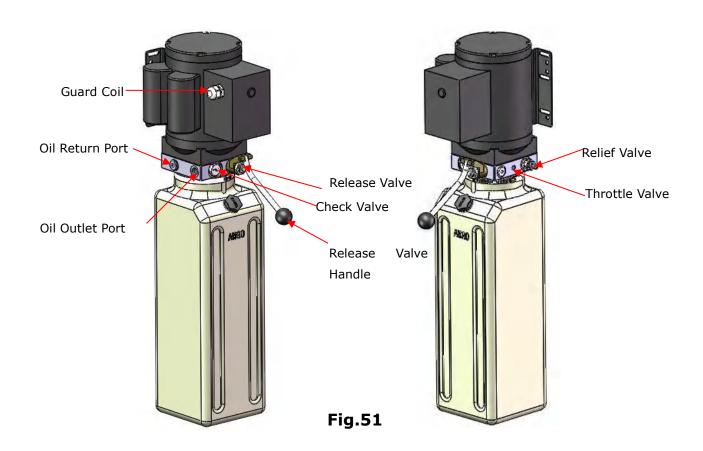


Fig.50

Item	Part#	Description	QTY	Item	Part#	Description	QTY
51-1	10420059	Dust Ring	1	51-6	11420064	Piston Rod	1
51-2	1004016001	Y-Ring USH	1	51-7	11410085	Pin	1
51-3	11410082	Head cap	1	51-8	10410086	Support Ring	1
51-4	10410083	O-Ring	1	51-9	10410087-01	Y-Ring USH	1
51-5	11410084	Bore Weldment	1	51-10	11410088	Piston	1

4.3 Power Unit Explosive View



4.3.1 Adjust the lower speed

Adjust the lower speed of the lift according to demand: Turn the Throttle Valve in clockwise direction to decrease the lower speed, or increase the speed in counterclockwise

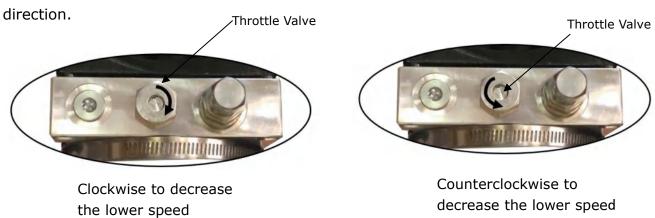
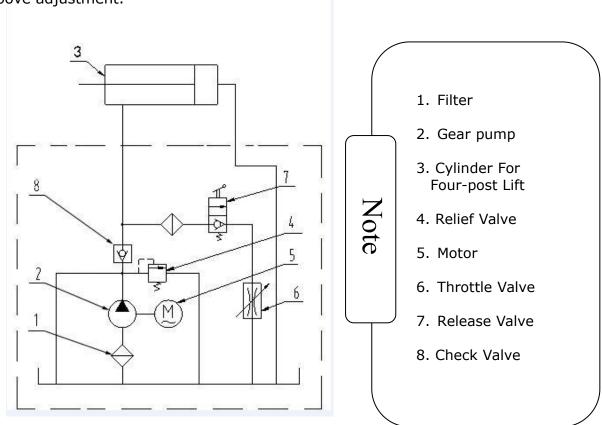


Fig.52

V. TEST RUN

- 1. Fill the reservoir with approximately 11 L Hydraulic Oil (**Note**: In consideration of Power Unit's durability, please use **Hydraulic Oil 46#**).
- 2. Press button **UP**, the Cables will be strained. Check whether the Cables match the Pulley. Make sure the Cables are not across.
- 3. Press the Handle of release valve to lock the Cross-beam to the safety ladders, and then adjust the platforms to be level by adjusting the nuts of Safety Ladders.
- 4. Adjust the tension of the cables by cable nuts. You need to run the lift up and down for several times till the four safety devices can be locked and released simultaneously. Tighten the cable nuts, ensure that the cable nuts are securely tightened to each other for each cable.
- 5. 5.Adjust the clearance between the column and cross beam slide block (generally 2mm), and then tighten the slide block with bolt.
- 6. After finishing the above adjustment, test running the lift with load. Run the lift with Platforms in low position first, make sure the Platforms can rise and lower synchronously and 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.



Circuit Diagram of Hydraulic System

Fig.53

VI. OPERATION INSTRUCTIONS

To lift vehicle

- 1. Keep clean of environment near the lift;
- 2. Ensure the air source switch is activated, drive vehicle to the platform and apply the brake.
- 3. Turn on the power and press the button **UP**, raise the lift to the working position; **Note:** make sure the vehicle is steady when the lift is raised.
- 4. Press the Handle of release valve to lock the lift in the safety position. Make sure the Safety devices are locked at the same height.

AWARNING It is unsafe to work under the lift without locking at the safety device after it has been lifted up, which may causes vehicle fall, damage, lift damage, human injury or even death.

To lower vehicle

- 1. Clear obstructions around and under the lift, make sure to move away the people around.;
- 2. Ensure the air source switch is activated, Press the button **UP**, the lift will be raised for 3-5 seconds, and then press the button of Manual-controlled air valve to release the safety devices, then press the handle of release valve by the other hand then the lift starts being lowered automatically;
- 3. Drive away the vehicle when the lift is lowered to the lowest position.
- 4. Turn off the power.

VII. MAINTENANCE SCHEDULE

Monthly:

- 1. Re-torque the anchor bolts to 150Nm;
- 2. Lubricate cable with lubricant;
- 3. Check all cable connection, bolts and pins to insure proper mounting;
- 4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
- 5. Lubricate all Rollers, Safety devices 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 to insure level lifting.
- 3. Check columns for plumbness.

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.

⚠DANGER Make sure the lift is completed disconnected from the power source before maintenance. If there is any external electrical lock/shutdown device, make sure to implement them before maintenance. The contact with high voltage/current, may cause injury or even death.

VIII. TROUBLE SHOOTING

TROUBLE	CAUSE	REMEDY		
	1. Start Button does not work	1. Replace start button		
Makan daaa	2. Wiring connections are not in good condition	2. Repair all wiring connections		
Motor does	3. Motor burned out	3.Repair or replace motor		
not run	4. AC contactor burned out	4. Replace AC contactor		
	5. Height limit switch is damaged	5. Replace Height limit switch		
Maker	1. Release valve in damage	1. Repair or replace		
Motor runs	2. Gear pump in damage	2. Repair or replace		
but the lift is	3. Relief valve or check valve in damage	3. Repair or replace		
not raised	4. Low oil level	4. Fill tank		
1 : 6t	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		
Lift waises	2. Motor running on low voltage	2. Check electrical system		
Lift raises	3. Oil mixed with air	3. Fill tank		
too slow	4. Pump leaks	4. Repair or replace pump		
	5. Overload lifting	5. Check load		
	1. Safety device are not in activated	1. Operate again		
Lift cannot	2. Release valve damaged	2. Repair or replace		
lower	3. Air Cylinder damaged	3. Replace the air cylinder		
	4. Oil system is jammed	4. Clean the oil system		

WARNING A lift would be dangerous if operated by inexperienced or distracted operators. Operators should be fully aware that lifting a vehicle is a potentially life-threatening operation, especially if ignoring the mandatory safety precautions.

IX. CAR LIFT SAFETY TIPS

Put this safety tips in a place where you can always alert the operator. Please reference to the lift manufacturer's manual for specific information about the lift.

- 1. Check the lift daily. If the machine breaks down or has damaged parts, do not operate, and use original equipment parts to repair.
- 2. **Do not** overload . The rated weight of the manufacturer design is indicated on the label of the lift.
- 3. Position control of the vehicle and operation of the lift can only be done by a trained and authorized person.
- 4. **Do not** lift a car with occupants inside. Keep the customers or bystanders away from the lift.
- 5. Keep the area around the lift free of obstacles, lubricating oil, grease, garbage and other debris for a long time.
- 6. Carefully drive the vehicle onto the lift and lifting up to the required height for operation. **Noted:** lift it high enough if you are working underneath, and make sure the safety devices are locked.
- 7. **Noted:** removing(install) parts from(to) a vehicle would cause a sudden shift of gravity which may result in instability of the vehicle. Please refer to the vehicle manufacturer's service manual as a recommended procedure if you need remove/install parts from(to) the vehicle
- 8. Before lowering the lift , make sure all obstacles underneath, include tool tray, tool rack etc., are all removed.

X. 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.



Address:

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