



Installation And Service Manual

Original

CHAIN-DRIVED SINGLE POST LIFT Model: SML-3000

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 DAMAGED SHIPMENT!

↑ 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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PROFILE

This installation and service 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.:
Manuf:	acturer date:

WARRANTY

The warranty period for the steel structure part of new car lift is 5 years, hydraulic components, bronze bushings and sliders are under warranty for 2 years, and electrical components warranty for 1 year. 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



Fig.1

IMPORTANT SAFETY INSTRUCTIONS

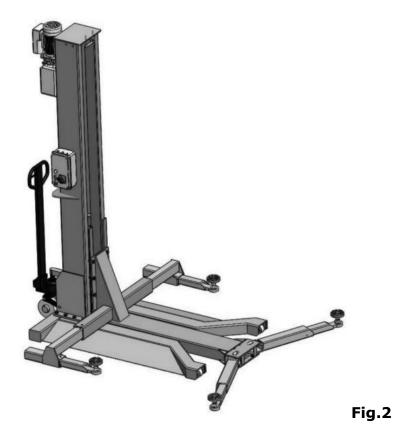
In order to properly maintain your product and ensure operator safety, it is the responsibility of the product owner to read and follow these instructions!

- 1. Ensure product installation full complies with all applicable local and national rules, ordinances and regulations;
- 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 and 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 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. Operate the lift only at temperature between 5°C to 40°C (41°F to 104°F).

⚠ 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



CHAIN-DRIVED MOBILE SINGLE POST MODEL SML-3000 FEATURES

- · Lifting capacity: 3000KG
- · Compact design.
- · Hydraulic cylinder is designed and made on high standard, with utilizing imported oil seal in cylinder.
- \cdot Self-lubricating UHMW polyethylene sliders and bronze bush.
- · 24V safety power control system.
- · Manual safety release, with dual safety devices.
- · Stackable and screwed type rubber pads

MODEL SML-3000 SPECIFICATIONS

Arm Swings View

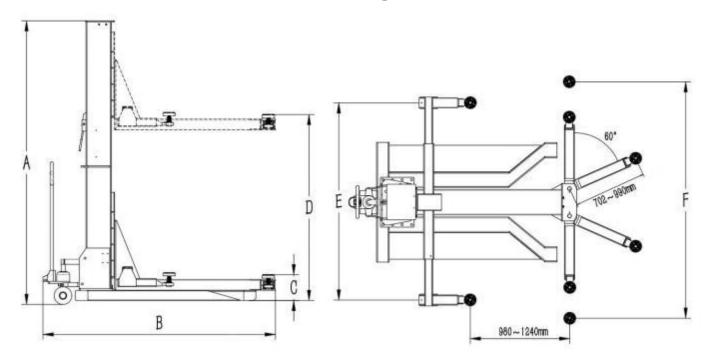
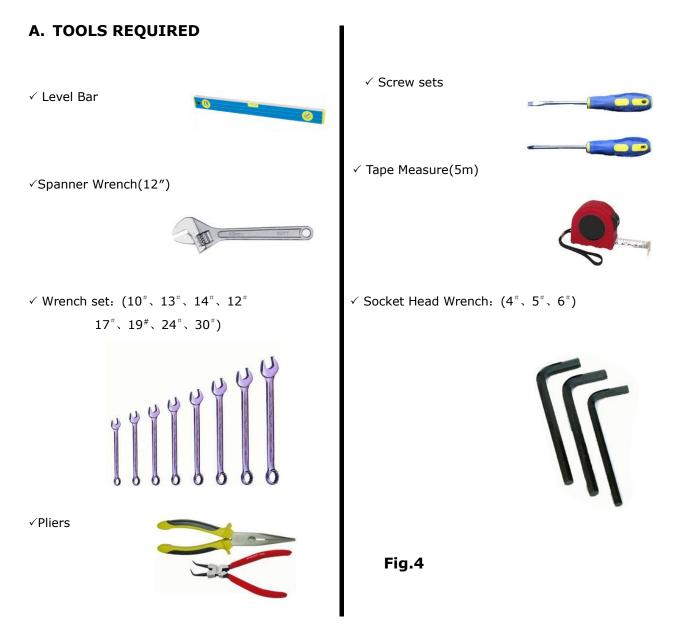


Fig.3

	Lifting	Lifting	Α	В	С		D
Model	Capacity	Time	Overall Height	Overall Width	Minimum Pad Height	Max. Lifting Height	
						Without extension adapters	Include extension adapters
SML-3000	3000 KG (7000lbs)	32S	2766mm (108 7/8")	2295mm (90 3/8")	110mm (4 11/32")	1825~1889mm (71 7/8"~74 3/8")	1901~1965 mm (74 27/32"~ 77 3/8")

Model Max Safety Lock Height		E	F		
		Lock Height	Inside arms stretch dimension	Outside arms stretch dimension	Motor
	Without extension adapters	Include extension adapters			
SML-3000	1735~1799mm (68 5/16"~70 27/32)	1811~1875mm (71 5/16"~73 13/ 16")	1268~ 1926mm (50"~75 7/8")	1530~1950mm (60 1/4"~ 76 3/4"")	3.0HP

II. INSTALLATION REQUIREMENT



B. Equipment storage and installation requirements.

- 1 . Store the equipment in a dry, non-moldy, non-flammable environment;
- 2. When installing the device, take safety precautions according to the instructions to avoid device damage;
- 3. Do not install the device outdoors if the installation area is not protected;
- 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. Power supply

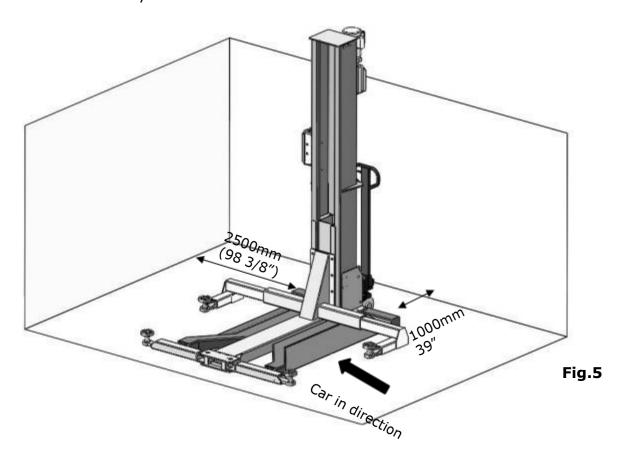
- 1. You are required to use a licensed and qualified electrician for the installation process.
- 2.The power supply should be 220VAC/50HZ, with a cord larger than 2.5mm², and must be properly grounded.

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

III. INSTALLATION STEPS

A. Location of Installation

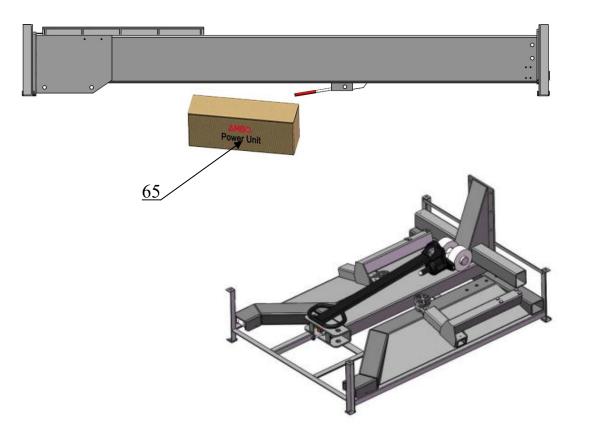
- Building plan: Please refer to the building's floor plan when selecting your ideal installation location. Ensure the location you choose does not conflict with the building's floor plan.
- 2. Installation space: Ensure there is enough space for the lift. Accurately measure the front, back, side and top mounting dimensions and refer to the below figure data(See Fig. 5).
- 3. Overhead obstacle: Check for overhead obstacles, such as building supports, heaters, lights, wires, and low ceilings, etc..
- 4. Floor: Install lift only on flat surface.



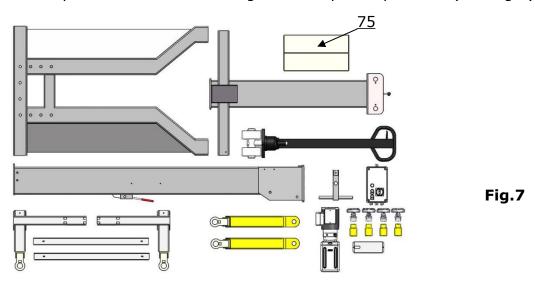
CAUTION Installing the lift on a surface with slopes more than 3° could lead to injury or even death. The lift is designed for installation on a flat and level surface only. (Defined as no more than 10mm difference over the installation area). If the floor cannot be leveled, consider changing installation locations.

B. Check the parts before assembly

1. Received package (lift and hydraulic power unit) (See Fig. 6)



- Fig.6
- 2. Remove the packaging on the machine \Rightarrow Take off the packing rack.
- 3. Move aside all the parts and check according to the shipment parts list (See Fig.7)



4. Open the parts box, and check all the parts according to the parts list.

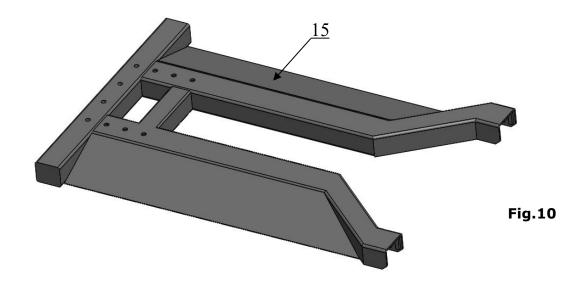


Fig.8

5. Open parts bag 1 & parts bag 2, check all the parts according to the parts bag list.

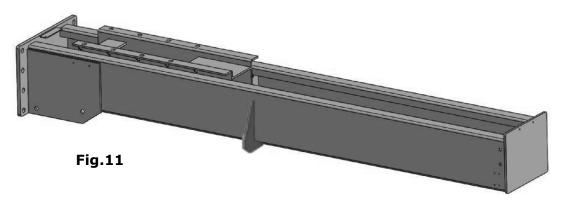


C. Confirm the installation position and place the base onto it.. (See Fig.10)

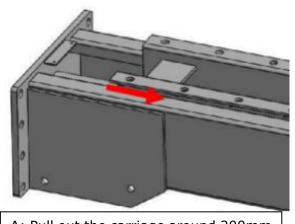


D. Install column, connect cylinder oil hose and install lift platform

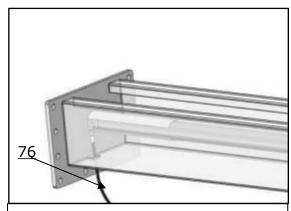
1.Lay the column flat to the ground. (See Fig.11)



2. Connect oil hose to cylinder. (See Fig. 12)



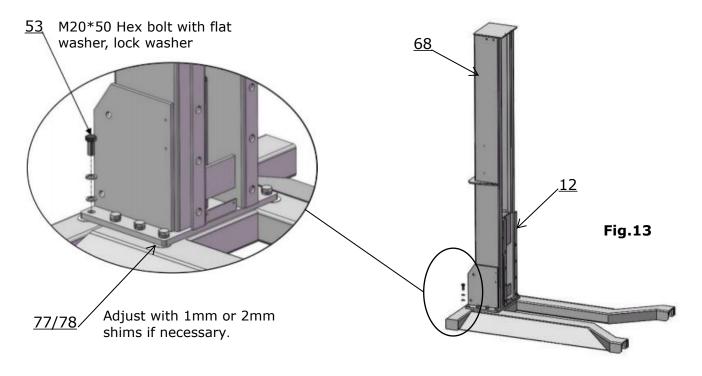
A: Pull out the carriage around 200mm from base plate.



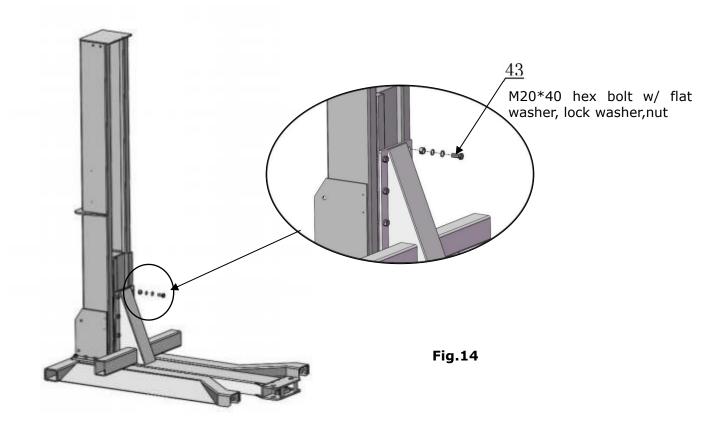
B: Pass the oil hose through the hole on the backside of column and connect it to the cylinder fitting and tighten.

Fig.12

3. Position the column onto the base, align the mounting holes, and install with bolts. Check the column plumbness with level bar, adjust with shims if necessary. (See Fig.13)



4. Fix lifting platform to carriage. (See Fig.14)



E. Install motor installing plate, power unit and connect oil hose.

1. Install motor installing plate, see fig 15

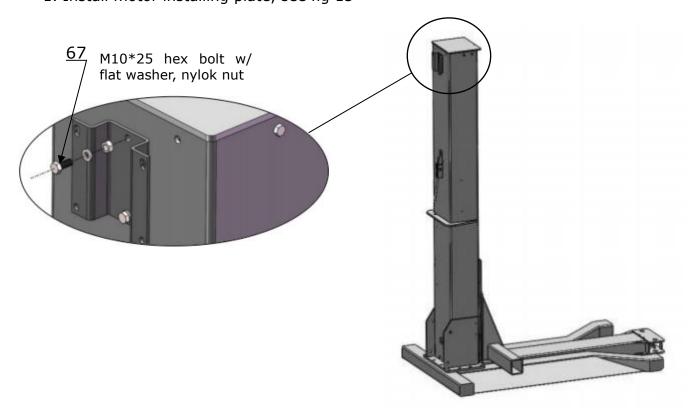
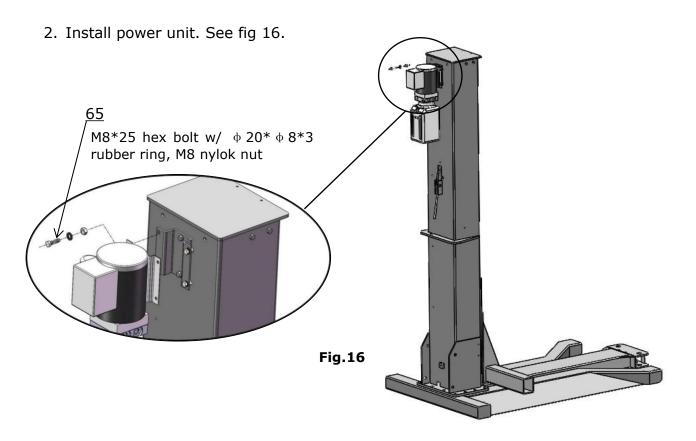
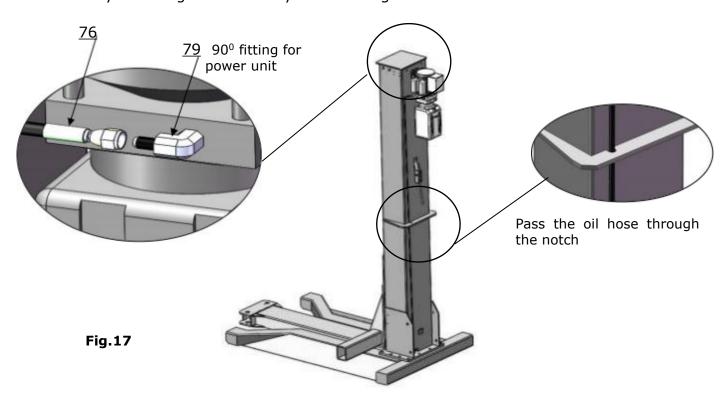


Fig.15



3. Connect oil hose.

Install the 90° fitting to the power unit, then connect it with the oil hose that comes from the cylinder. Tighten all the hydraulic fittings after installation.



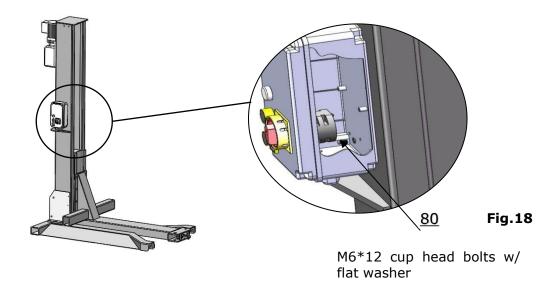
F. Fill the reservoir with hydraulic oil.

Note: In consideration of power unit's durability and keep the equipment running in the perfect condition, please use hydraulic oil 46#.

G. Install circuit system.

1. Install control box.

Remove the outer cover of control box, align the control box with the holes on the column, then fix it to the side of the column with M6*12 cup head bolts. See fig 18.



2. Install high limit switch.

Assemble the protective ring into the wire hole of column, then pass the high limit switch wire through the protective ring and fix with M15*12 cup head bolt. See fig 19.

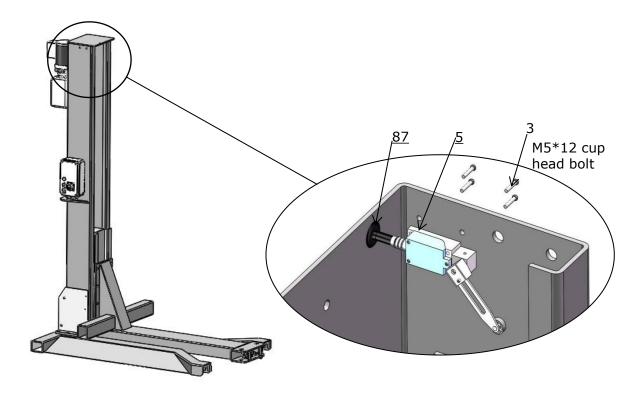


Fig.19

3. Install low alarm switch

Assemble the low alarm switch to the limit switch fixing plate with M5*12 cup head bolt (see fig 20), then install the plate to the column and tighten with M6*12 cup head bolt. (see fig.21). Pass the switch wire through bellow pipe and the strengthened plate.

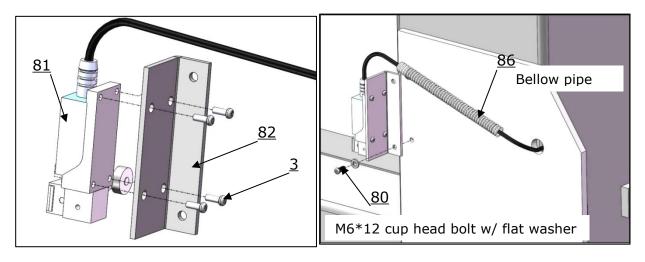


Fig.20 Fig.21

4. Wires connection

Connect the 3*2.5² black motor wire respectively to the M1, M2 and earth wires of motor.

Connect the $2*1^2$ black hydraulic solenoid valve wire to the hydraulic solenoid valve coil.

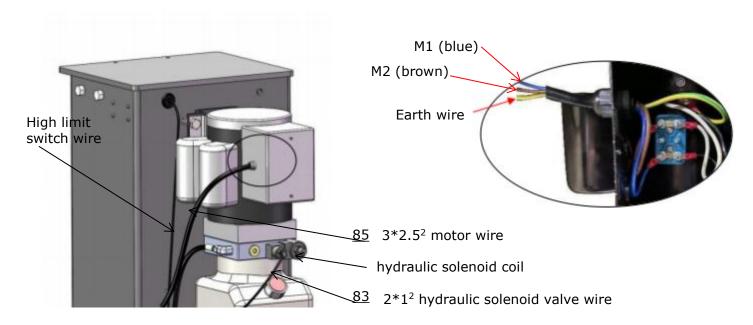
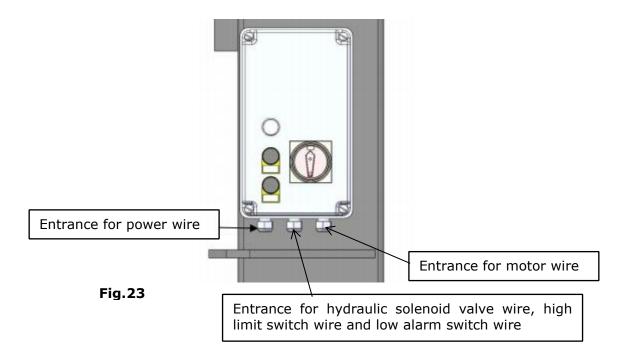


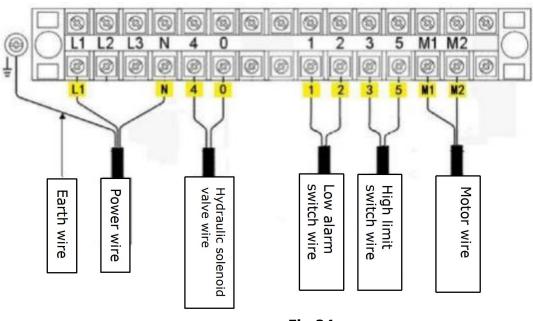
Fig.22

Pass the high limit switch wire, low alarm switch wire, motor wire, solenoid valve wires that connected in above steps and power wires (from the user) through the entrances of the control box as shown in the figure below and connect them to the terminals. (For detailed wires connection and circuit schematic diagram please check the following step No. 5)



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.

- **5.** Single phase wires connection and circuit schematic diagram.
- 5.1 wires connection in control box, see fig 24



5.2 Single phase circuit schematic diagram, see fig 26

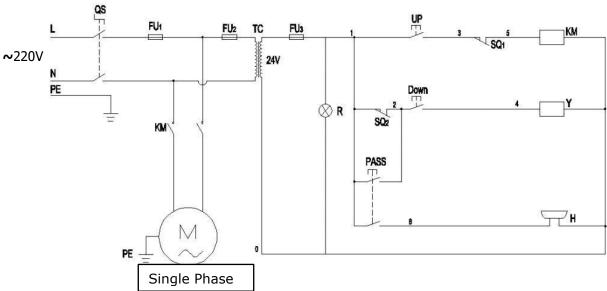


Fig.25

Parts list of 220V circuit components:

Item	Name	Code	Specification
1	Power switch	QS	25A AC
2	Breaker	FU ₁	2P
3	Breaker	FU ₂	1P
4	Breaker	FU₃	1P
5	AC contactor	KM	24VAC
6	Limit switch	SQ	8108 10A
7	Photocell switch	SP	BEN300-DFR
8	Hydraulic solenoid valve	Y	24VAC
9	Push button	UP	Single
10	Push button Down		Single
11	Alarm Switch	К	Duplex
12	Transformer TC 24		24VAC
13	Alarm	Alarm H 24VAC	
14	Motor	М	Single phase
15	Indicator light	R	White (24V)

<u>ANGER</u> 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.

H. Install protection slots (see Fig.26)

Tidy up all wires, oil hoses, limit switch wire, hydraulic solenoid valve wire and wrapped with zip tie. Cover with protection slots and fix the protection slots with M6*40 cup head bolt(after installation, wrap the wires that exposed outside with winding tube).

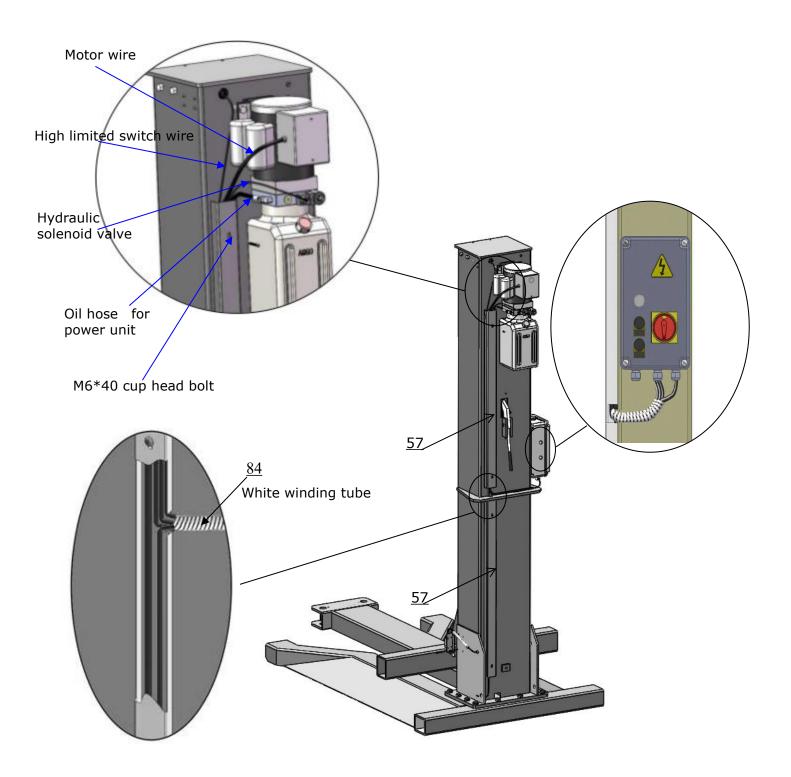
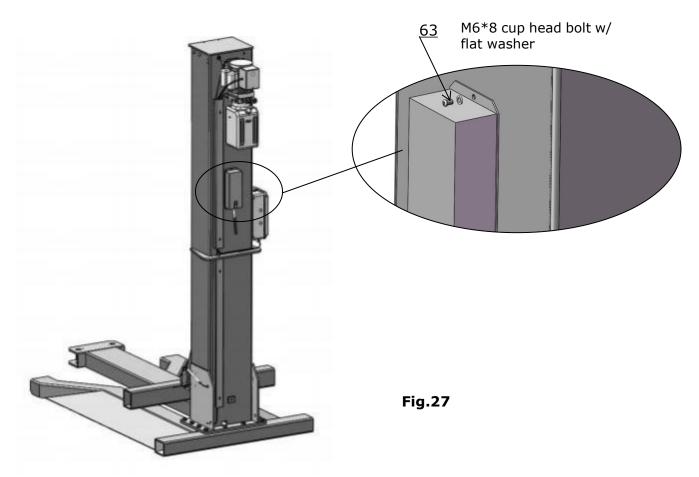


Fig.26

I. Install safety device cover (see fig.27)



J. Install lifting arms.

1. Install inside lifting arms.

Insert the inside lifting arm into square tube, tighten with M8*20 limit bolt to prevent the lifting arms from pulling out.

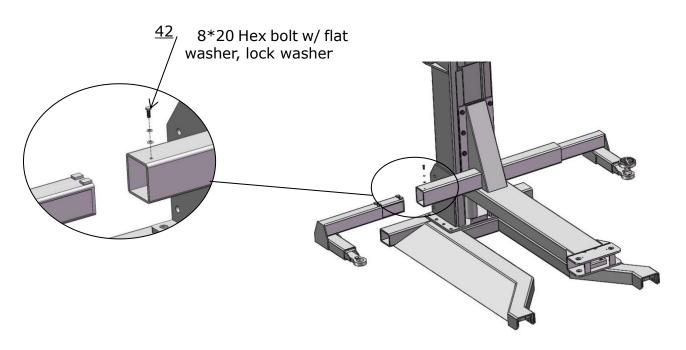
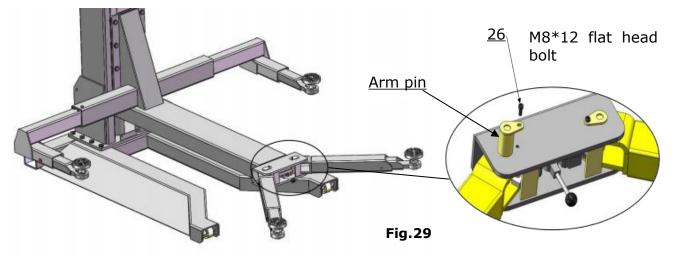


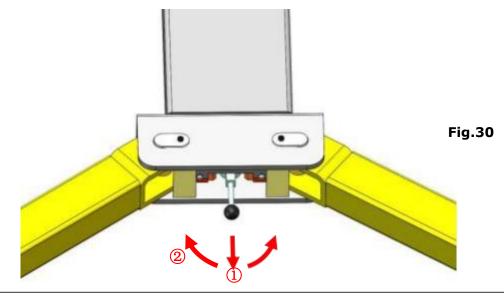
Fig.28

2. Install outside lifting arms.

Align the outside lifting arm with the hole, then insert the arm pin, and tighten with M8*12 flat head bolt. See fig 29.



3. Operation of arm lock release handle



- 1) Pull out the arm lock release handle.
- 2 Turn the arm lock release handle left or right to release the both arm locks to adjust the position of arms.

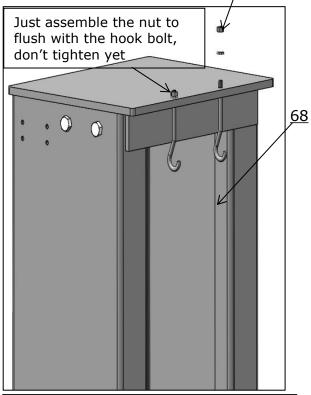
<u>\text{\text{!}} DANGER</u> Moon gear must be positioned and adjusted correctly. The lift should not be operated until the gears are fully engaged, and it is important to regularly check and adjust the arm restraint gears on all four arms. Failure to do so may result in vehicle damage, injury, or even death.

MARNING Each arm restraint assembly must be inspected and adjusted before you use the Lift each and every time. Do not operate the Lift if any of the four arm restraint systems are not functioning properly. Replace any broken components or components with broken teeth with authorized replacement parts only.

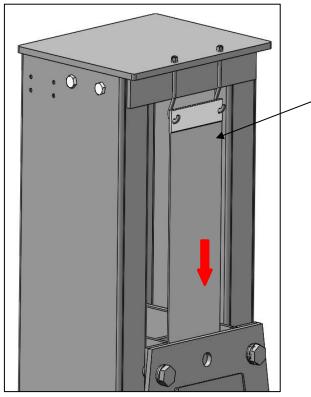
K. Install fabric curtain cover . See fig 31.

Follow the steps below to install the fabric curtain cover.

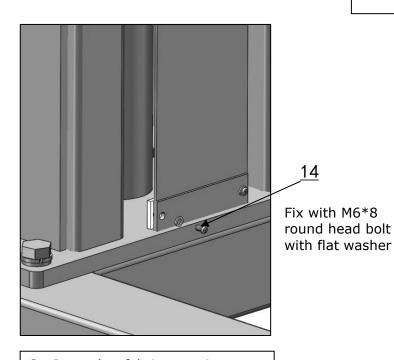




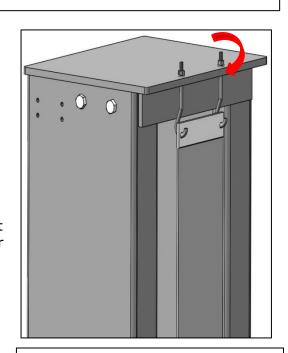
1.Install the hook bolt into the top plate.



2. Hook the fabric curtain cover to the hook bolt, pass the other side through the upper hole of the carriage, then go downwards from inner side.



3. Pass the fabric curtain cover through the carriage to the bottom mounting plate and fix with round head bolts.



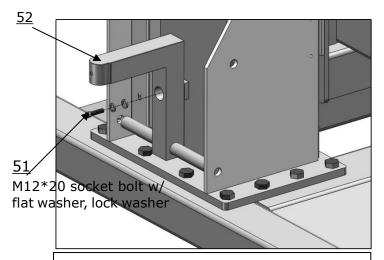
4. Adjust the nuts until the fabric curtain cover is straight.

Fig.31

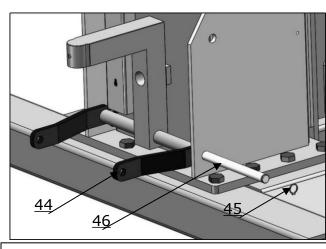
14

L. Install mobile wheel dolly.

Please install following the below steps.

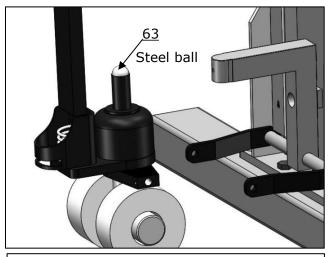


1. Assemble the dolly fixing square tube (52) to the mounting plate at the backside of column with socket bolt.



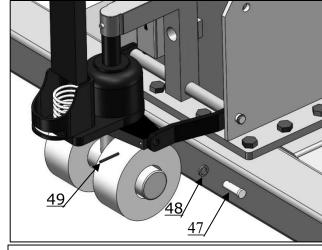
2. Connect the dolly fixing square tube and the dolly connecting board (44) with pin, and limit with clip ring at both ends.

Fig.32



3. Place the steel ball on the top of dolly cylinder. Assemble the wheel dolly with dolly fixing square tube.

Fig.33



4. Assemble the dolly connecting board and dolly cylinder assembly with dolly fixing pin, and limit with snap ring.

Fig.34

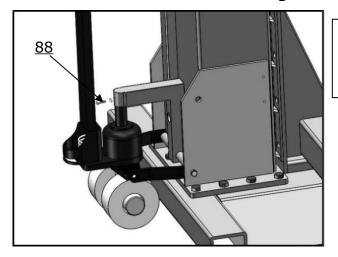
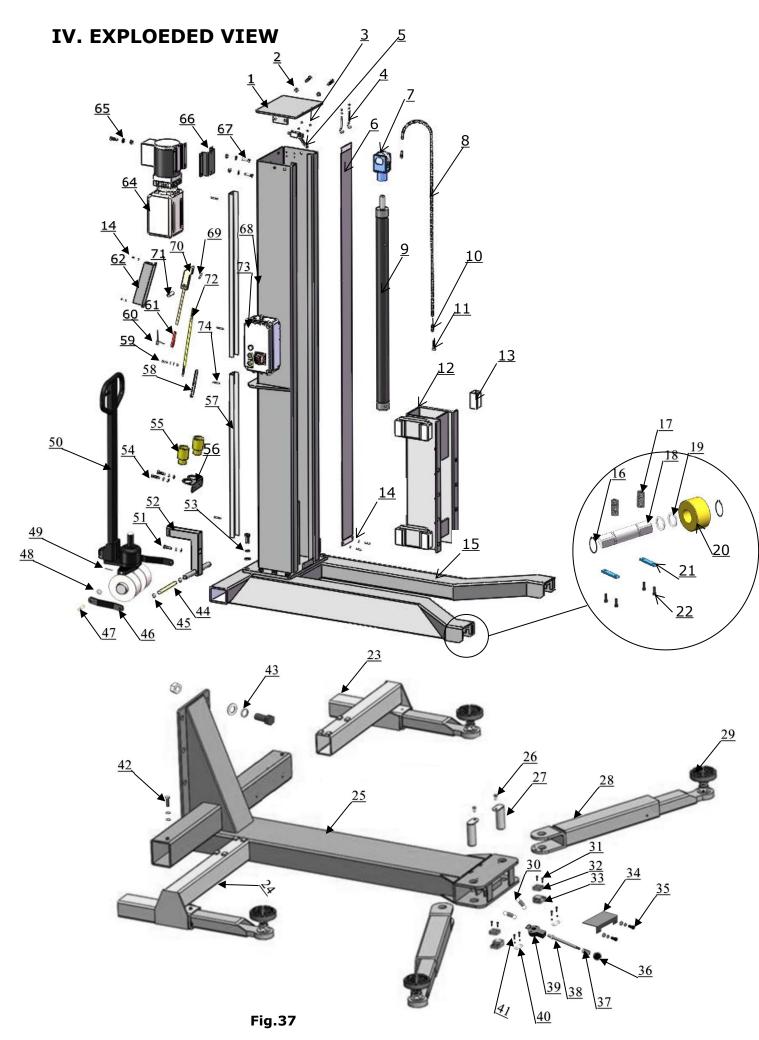


Fig.36

Fig.35

5. Install limit bolt (M8*16 hex bolt w/ lock washer)



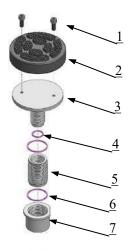
PARTS LIST FOR SML-3000

Item	Part#	Description	QTY
1	11101013	Top plate	1
2	1001085013	M12*30 hex bolt w/ M12 nylok nut	2
3	10206011	Cup head bolt M5*12	8
4	1101085015	Hook bolt M6*95 w/ φ6 flat washer, M6 Nylok Nut	3
5	10102004	High limit switch assy.	1
6	11101042	Fabric curtain cover L=2570mm	1
7	11207681	Chain pulley seat assy.	1
8	10101007	Chain	1
9	10207010	Cylinder	1
10	10201010A	Connector	2
11	10201005	Cotter pin φ4*50	1
12	11102608-01	Carriage	1
13	1002755015	Slider block 55*50*100	8
14	1001085016	M6*8 cup head bolt w/ φ6 flat washer	6
15	11102611	Base	1
16	10610008	Clip ring φ30	4
17	10683018	Spring φ18*φ11*70	4
18	11101039	Roller shaft	2
19	41080221	Bearing	4
20	11101038	Wheel	2
21	11101675	Wheel shaft limit block	4
22	10420138	Socket bolt M6*16	8
23	10102028	Inside arm assy. (right)	1
24	10102029	Inside arm assy.(left)	1
25	11102609-01	Platform	1
26	10101003	M8*12 flat head bolt	2
27	11101005	Arm pin	2
28	10101033	Outside arm assy.	2
29	10203054	Rubber pad assy.	4
30	1101015001	Extension spring Φ 13* Φ 10* Φ 1.5*32	2
31	85090128	Socket Bolt M6*20	4
32	10101008	Arm lock	2
33	11101009-01	Arm lock fixing plate	2
34	1101012010	Limit cover plate	1
35	1001045001	M5*12 socket bolt w/ flat washer, lock washer	2
36	10209020	Plastic ball M8	1
37	1101015001	Spring Φ12.6*Φ1.2*21	1
38	1101012009	Arm lock release handle	1
39	1101012004A	Arm lock connecting block	1
40	1101012002	Connector	2
41	1101012008	Limit sleeve Φ10*6.2	4
42	1001045002	M8*20 hex bolt w/ flat washer, lock washer	2

Item	Part#	Description	QTY
43	1001085008	M20*40 hex bolt w/ φ20 flat washer, φ20 lock washer and M20 nut)	8
44	11102010	Dolly connecting pin φ19*376	1
45	10206019	Clip ring φ19	2
46	11101030	Dolly connecting Board	2
47	10101039	Dolly limit pin φ16*49	2
48	10420029	Flat washer φ16	2
49	10101038	Snap Pin φ5*40	2
50	10101028	Dolly cylinder assy.	1
51	1001045003	M12*20 socket bolt w/ flat washer, lock washer	1
52	11102607	Dolly fixing square tube	1
53	1001085005	M20*50 hex bolt w/ φ20 flat washer, φ20 lock washer	10
54	1001045004	M8*12 hex bolt w/ flat washer, lock washer	2
55	11203034	Stackable adapter 3"	4
56	11203035	Stackable adapter bracket	1
57	11102007-01	Protective slot L=1057	2
58	11203261	Power-side safety block	1
59	1001085014	M6*20 hex bolt w/ φ6 flat washer φ6 lock washer M6 nylok nut	1
60	10209007	Spring 120°	1
61	10206003	Rubber sleeve for safety release handle	1
62	10209008	Safety device cover	1
63	10101037	Steel ball	1
64	81523021	Power unit	1
65	1001085009	M8*25 hex bolt w/ 8*20*3 black rubber ring, M8 nylok nut	4
66	11203032	Motor installing plate	1
67	1001045005	M10*25 hex bolt with flat washer, nylok nut	2
68	11102033-01	Column	1
69	10209012	Snap ring φ3.2	1
70	11203263	Safety Device	1
71	11206002	Pin for safety block	1
72	11203013	Coupling bar	1
73	10206220	Control box (Single phase)	1
74	10206079	Cup head bolt M6*40	6
75	10102501	Parts box	1
76	10102016	Oil hose 1/4"*2735mm	1
77	10201090	Shim 1mm	10
78	10620065	Shim 2mm	10
79	10209060	90° fitting for power unit	1
80	10209145	Cup head bolt M6*12	2
81	1001011001-01	Low alarm switch assy.	1
82		1: 1: 1: 1: 1: 1:	- 1
02	11420203	Limit switch fixing plate	1
83	11420203 10203090	Hydraulic solenoid valve wire 2*1 ² *2000mm	1

Item	Part#	Description	QTY
85	10102001-01	Motor wire 3*2.5 ² *2200mm	1
86	10102015-02	Bellow pipe φ10*1*450mm	1
87	10209114	Protective ring	1
88	1001085017	Hex bolt M8*16 w/ lock washer	2

4.1 Rubber pad assy. (10203054) exploded view:



Item	Part#	Description	QTY
1	10420043	M8*20 Socket bolt	8
2	10203043	Double screwed rubber pad	4
3	11203026	Support frame	4
4	10203041	Snap ring	4
5	11203025	Adjusting rod	4
6	10203042	Snap ring	8
7	11203024	Adjusting sleeve	4

Fig.38

4.2 Outside arm assy. (10101033) exploded view:

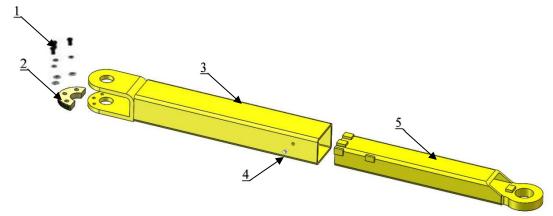


Fig.39

Item	Part#	Description	QTY
1	1001045006	Socket bolt M8*25 (w/ flat washer, lock washer)	6
2	10209035	Moon gear	2
3	11101019	Outer arm	2
4	10201149	Cup head bolt M8*12	2
5	11203101	Inner arm	4

4.3 Inside arm assy. (left) (10102028) exploded view:

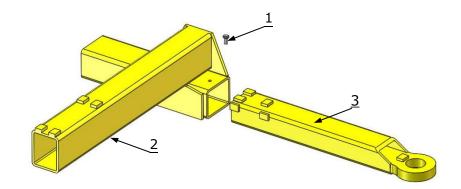
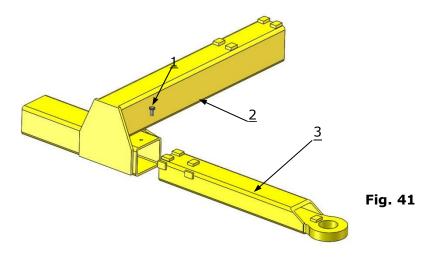


Fig. 40

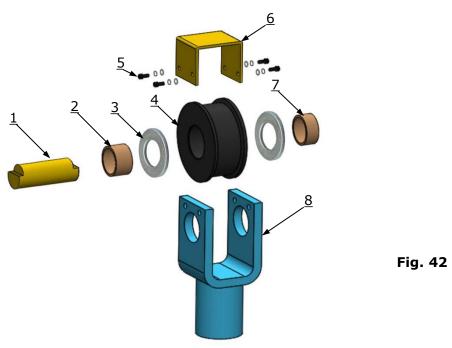
Item	Part#	Description	QTY.
1	10201149	M8*12 cup head bolt	1
2	11102610	Outer arm	1
3	11203101A	Inner Arm	1

4.4 Inside arm assy. (right) (10102029) exploded view:



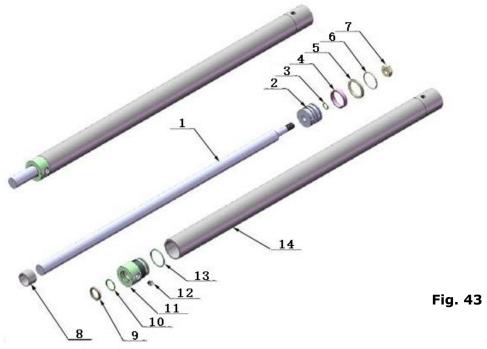
Item	Part#	Description	QTY.
1	10201149	M8*12 cup Head Bolt	1
2	11102612	Outer arm	1
3	11203101A	Inner Arm	1

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



Item	Part#	Description	QTY.
1	11207006	Pin for Chain Pulley Φ35*93	1
2	10420132A	Bronze bush Φ41.2*Φ35.1*20	1
3	11530023	Flat washer Ф44*Ф35.5*2	2
4	11207007	Chain pulley Φ105*50	1
5	10430138	M6*15 hex bolt w/ flat washer, lock washer	4
6	11207693	Chain limit block	1
7	10530042	Bronze bush Φ41.2*Φ35.1*28	1
8	11207008	Chain pulley seat	1

4.6 Cylinder (10207010) exploded view:



Item	Part#	Description	QTY.
1	11207027	Piston rod	1
2	11207028	Piston	1
3	10206069	O-Ring	1
4	10620053	Support ring	1
5	10620054	Y-ring OSI	1
6	10630027	O-ring	1
7	10206071	Hex Nut	1
8	11207029	Cylinder adjusting sleeve	1
9	10217078	Dust ring	1
10	10520058	O-ring	1
11	11207030	Head cap	1
12	10201034	Bleeding plug	1
13	10207031	O-ring	1
14	11207032	Bore weldment	1

4.7 Control box (10206220) exploded view

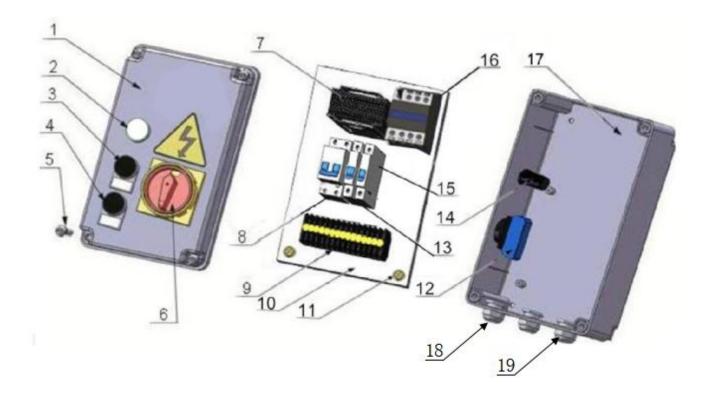
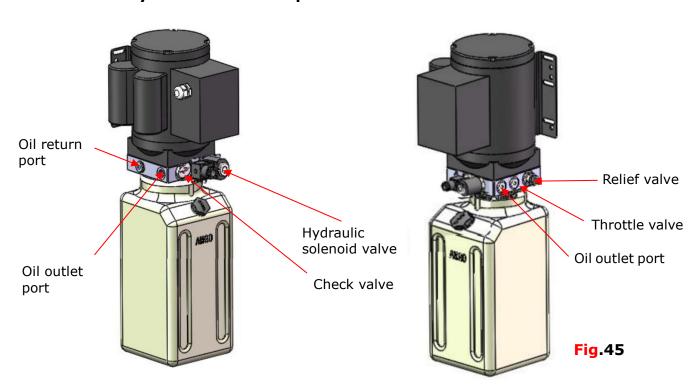


Fig.44

Item	Part#	Description	QTY
1	10420069A	Cover of control box	1
2	10201094	Indicator light (white)	1
3	10420071	Button UP	1
4	10420072	Button DOWN	1
5	10420139	Screw	4
6	41010217	Power switch (QS1)	1
7	10420134	Transformer (TC)	1
8	10202046	Breaker 2P	1
9	1061K100	15 position terminal block	1
10	10420133A	Components mounting plate	1
11	10420073	Cup head bolt	4
12	10420142	Switch (duplex, black)	1
13	10202049	Breaker 1P	1
14	10420143	Buzzer	1
15	10202051	Breaker 1P	1
16	10420084A	24V AC Contactor (KM)	1
17	1061K079	Box	1
18	10420088	Wire connector (white)	2
19	10720095	Wire connector (white)	1

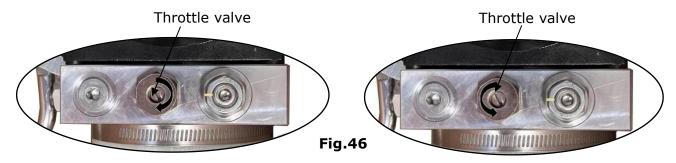
Illustration of hydraulic valves for power unit



V. TEST RUN

1. Adjust the lowering speed (Fig.39)

If necessary, you can adjust the lowering speed of the lift by turning the throttle valve clockwise to decrease it, or counterclockwise to increase the lower speed.



Clockwise to decrease the lowering speed

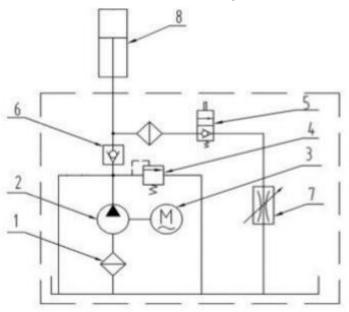
Counterclockwise to increase lowering speed.

2. Test with load

A test with load should be conducted after the above adjustments have been completed. Run the lift at low level several times first, when there is no other abnormal phenomenon, run the whole process. Repeat the above adjustment if there is any abnormal phenomenon.

Tips: There will be vibration during the first operation without load, load and run several times, the vibration will disappear naturally after the air in the hydraulic system is exhausted!

Hydraulic Schematic Diagram



- 1. Filter
- 2. Gear pump
- 3. Motor
- 4. Relief valve
- 5. Release valve
- 6. Check Valve
- 7. Throttle valve
- 8. Cylinder

Fig. 47

MARNING Do not lift vehicles that exceed the rated capacity of the lift. Please do not release the safety handle until the lift safety lock is locked. Only trained personnel are authorized to operate the lift.

VI. OPERATION INSTRUCTIONS

To lift vehicle

- 1. Keep operation site clean;
- 2. Lower the lifting arm to the lowest position;
- 3. Retract the lifting arm to the shortest position;
- 4. Swing lifting arms straight to both sides;
- 5. Drive the vehicle onto the lift. To get off conveniently, make the cab towards outside instead of the column side:
- 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 as recommended by the vehicle manufacturer.

- 7. Turn on the power switch QS and push the **UP** button until the rubber pads fully contact the vehicle and ensure the safety;
- 8. Continue to raise the vehicle slowly, ensure the vehicle balance and lift it to the required height, then release the UP button;
- Press the **Down** button to lower the lift at the safety lock position. Ensure that the safety devices in normal working condition before you carry out maintenance for the vehicle.

To lower vehicle

- 1. Clear obstructions around and under the lift and keep people away from the lift;
- 2. Push **UP** button to raise the vehicle slightly to unlock the safety device, push **Down** button to lower the vehicle, the lift would stop lowering at 350mm above ground, please push both **K** button at side and **Down** button, the buzzer will ring and the lift will continue to lower to ground;
- 3. Swing the lifting arms to both sides and retract the lifting arms to the shortest;
- 4. Drive away the vehicle.

MARNING It is unsafe to work when the lift without locking at safety device after it has been raised. The vehicle may fall, potentially causing damage the vehicle and lift, even injury or death to someone nearby.

<u>NAMER When using the lifting points on the chassis recommended by the vehicle manufacturer, be sure to follow the instructions carefully.</u> If you don't, the vehicle can become unstable and fall, which can damage the vehicle and lift, injure or even kill anyone under the vehicle.

VII.MAINTENANCE SCHEDULE

Monthly:

- 1. Tighten all connecting bolts;
- 2. Check all fitting, bolts and pins to ensure proper connections;
- Lubricate slider, chain with lubricant;
- 4. Make a visual inspection of all hydraulic hoses/lines for possible wear or leakage;
- 5. Check safety device and make sure in proper condition;
- 6. Lubricate all rollers and pins with 90Wt gear oil.

Every six months:

- 1. Make a visual inspection of all moving parts for possible wear, interference or damage;
- 2. Check equalizer tension and possible wear of the chain;
- 3. Check column for plumbness;
- Check rubber pads and replace as necessary;
- 5. Check safety device and ensure in proper condition;
- 6. Check hydraulic oil level of power unit;
- 7. Check the engagement of moon gear and arm lock.

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. This can exhaust 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.Button does not work	1. Replace
	2.Wiring connections are not in good	2. Repair all wiring connections
Motor does	condition	
not run	3. AC contractor burned out	3. Replace
	4. Motor burned out	4. Repair or replace
	1. Release valve in damage	1.Repair or replace
Motor runs	2.Gear pump in damage	3.Repair or replace
but the lift is	3.Relief valve or check valve in damage	4.Repair or replace
not raised	4.Low oil level	5.Fill tank
	1.Release valve out of work	1.Repair or replace
1:64 -1		
Lift does not	2 Relief valve or check valve leakage.	2.Repair or replace
stay up	3.Cylinder or fittings leaks	3.Replace seal kit or fittings.
	1. Oil system is jammed	1. Clean the oil system
	2. Motor running on low voltage	2. Check electrical system
Lift raises	3. Oil mixed with air	3. Fill tank
too slow	4. Gear pump leaks	4. Replace.
	5. Overload lifting	5. Check load
	1. Safety devices are locking	1. Release the safety devices
Lift cannot	2. Release valve in damage	2. Replace
lower	3. Oil system is jammed	3. Clean the oil system
	4.Hydraulic solenoid valve out of work	4. Replace

IX. CAR LIFT SAFETY TIPS

Post these 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 the parts of original equipment to repair;
- 2. Do not overload the lift. 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. You can not lift a vehicle with people inside. When the lift is working, the customer or other people should not be around the machine;
- 5. Keep the place around the lift clear of obstacles, lubricants, grease, garbage and other debris for a long time;
- 6. Before driving the vehicle into the lift, put the lifting arm and rubber pad in the proper position to ensure barrier-free space. Do not hit or run over the lift arm and rubber pad of the lift, otherwise it will cause damage to the lift machine or the vehicle;
- 7. Raise the lift to the required height for operation. **Note**, if you are working under a vehicle, raise the lift high enough and mare sure the safety devices are locked;
- 8. Note, removing(or installing) parts from a vehicle would cause a sudden shift of gravity that is unstable for the raised vehicle. Reference to the vehicle manufacturer's service manual as a recommended procedure when removing parts from the vehicle;
- 9. Before lowering the lift, make sure that the tool tray, tool rack, etc.are removed from under the vehicle. Release the locks before lowering the lift;
- 10. Before removing the vehicle from the lift, put the lifting arm and rubber pad in place to ensure an unobstructed exit.

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.



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