GRAND PRIX IMPORT

Installation, Operation & Maintenance Manual

SINGLE COLUMN MOBILE LIFT

The specifications stated on this brochure are not binding. We reserve the right to change the specification without notice



IMPORTANT: Read this manual completely before installing or operating lift

Showroom - Distribution Centre 8275, 17e Avenue, Montréal, Qc., Canada H1Z 4J9 1-800-361-4095 • 514-328-2300 • Fax 514-328-4684

CONTENTS

I. PRODUCT FEATURES AND SPECIFICATIONS1
II. INSTALLATION REQUIREMENT
III. STEPS OF INSTALLATION
IV EXPLOEDED VIEW
V. TEST RUN
VI. OPERATION INSTRUCTIONS
VII.MAINTENANCE SCHEDULE
VIII. TROUBLE SHOOTING
IX. PARTS LIST

I. PRODUCT FEATURES AND SPECIFICATIONS

MOBILE CHAIN-DRIVE SINGLE POST MODEL SL-6 FEATURES

- · Compact design.
- Hydraulic cylinders, designed and made on ANSI standard, utilizing NOK oil seal in cylinder.
- · Self-lubricating UHMW Polyethylene sliders and bronze bush.
- · Single-point safety release, and dual safety design.
- · Super-symmetric arms design with 3-stages front arms and 2-stages rear arms.
- · Stackable and screwed type rubber pad.



Fig.1

MODEL SL-6 SPECIFICATIONS

Model	Style	Lifting Capacity	Lifting Time	Lifting Height	Overall Height	Overall Width	Minimum Pad Height	Motor
SL-6	Chain-drived	6,000 lbs	32S	71-7/8"~ 77-1/8"	108-7/8″	76-1/8″	4-1/8″∼ 9-1/4″	2.0HP

Arm Swings View

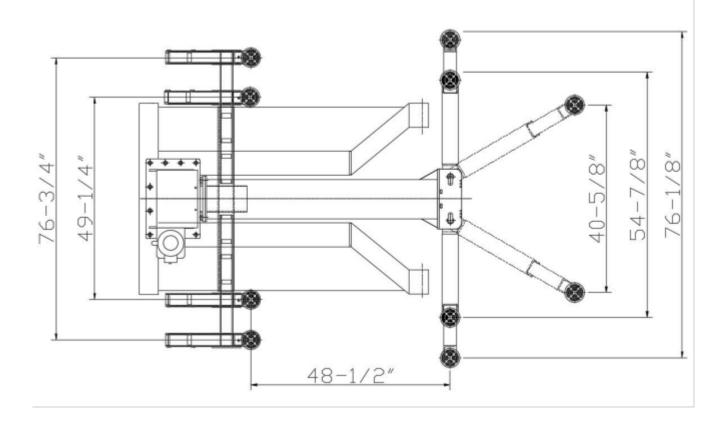
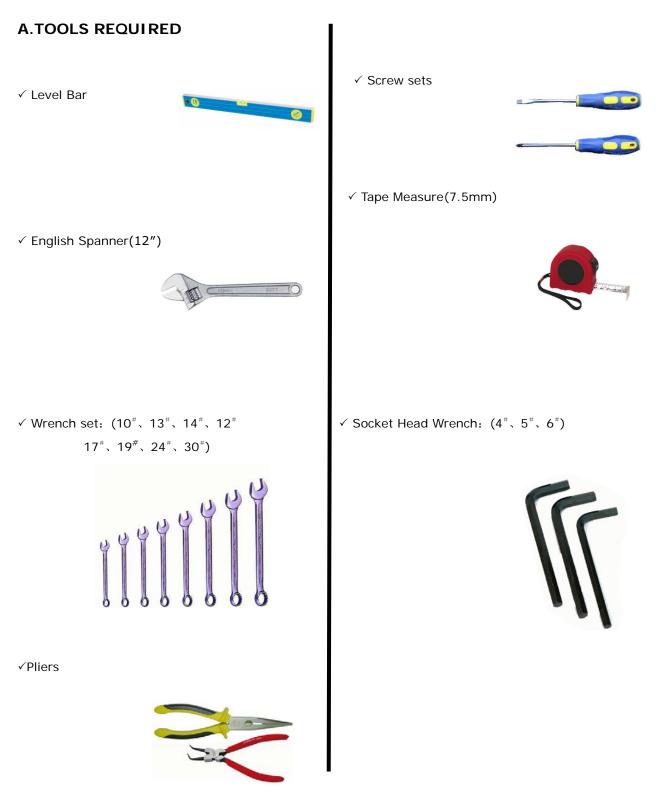


Fig.2

II. INSTALLATION REQUIREMENT





B.POWER SUPPLY

The electrical source must be 2HP minimum. The source cable size must be 2.5mm² and in good condition of contacting with floor.

III. STEPS OF INSTALLATION

A. Location of installation

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

B. Check the parts before assembly

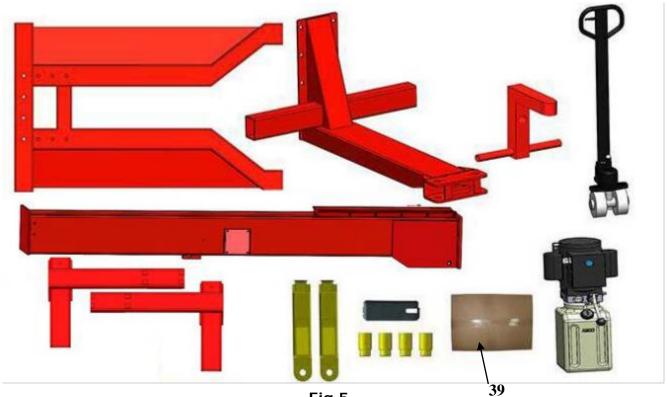
1. Packaged lift and hydraulic power unit (See Fig. 4)





2. Take off the packaging on the machine \Rightarrow Take off the packing rack.

3. Move aside the parts and check the parts according to the shipment parts list(See Fig.5 & 6)



Shipment list

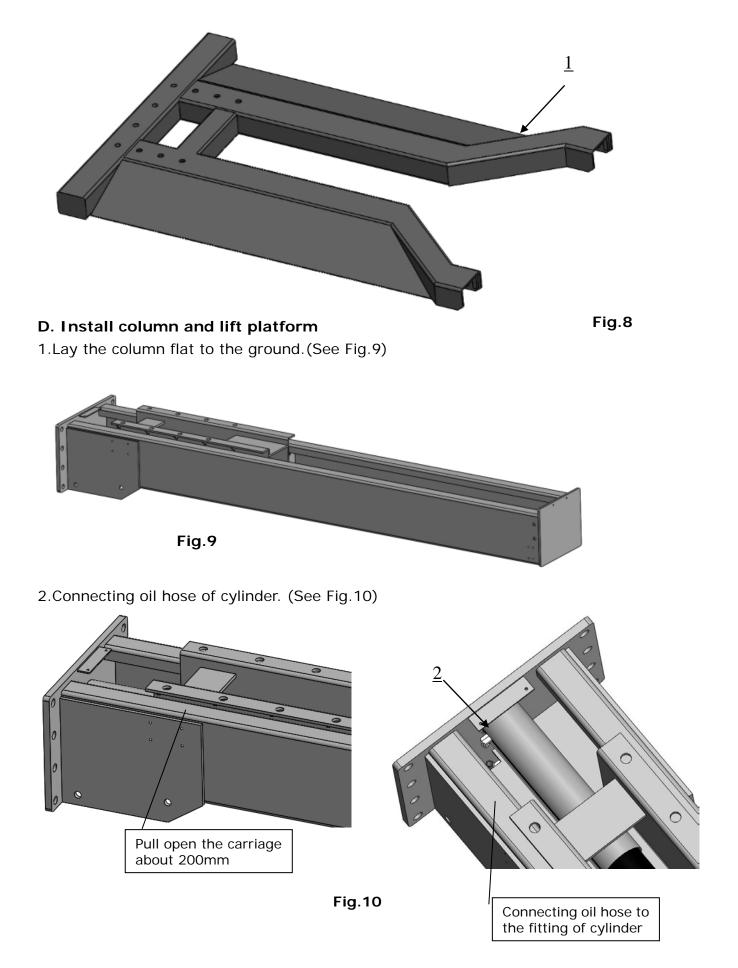
Fig.5



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

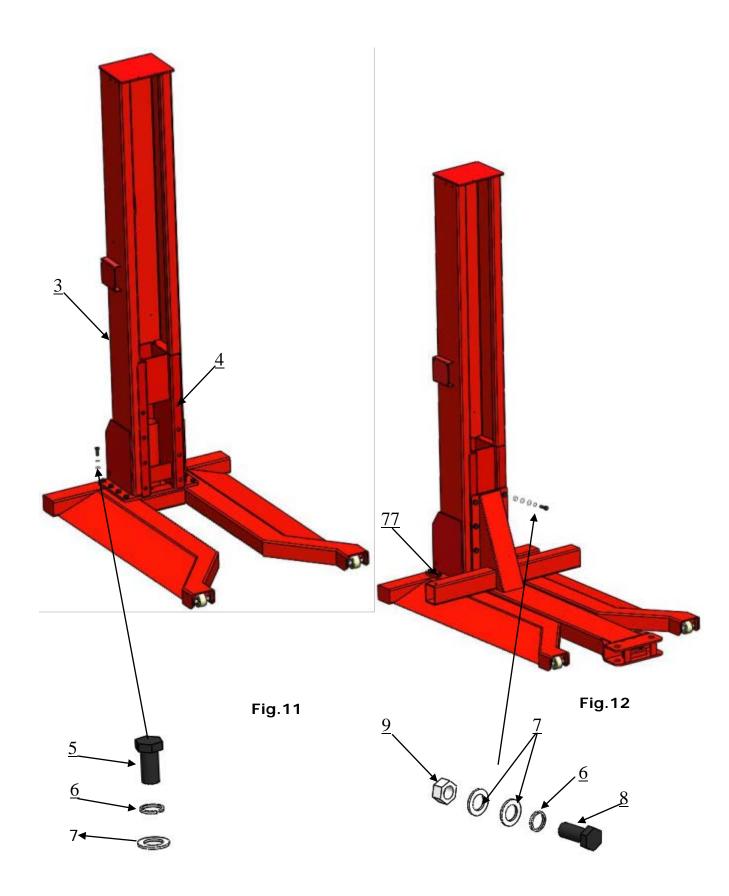


C. Lay the base flat to the ground, confirm installation place according to the ground state, the main purpose is to save space. (See Fig.8)



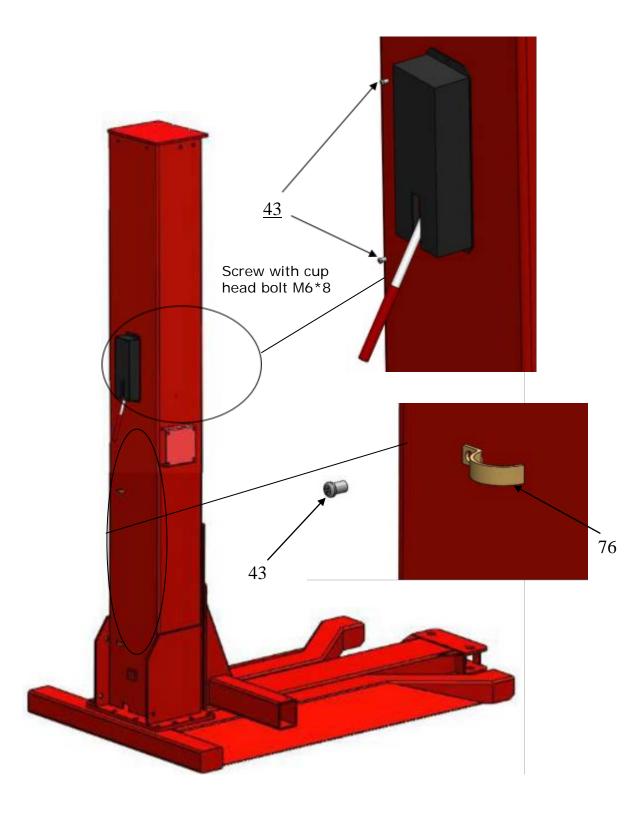
3. Fix column to the base plate. (See Fig. 11)

4.Fix lifting platform to carriage. (See Fig.12)



7

E. Install cover of the safety device & retainer (See Fig.13) After install the retainer, cover the electric wires with take-up strap





F. Install power unit and oil hoses (See Fig.14)

Note: Tighten the oil hose fitting and power unit fitting to avoid oil leakage; Pay attention to the direction of power unit fitting.

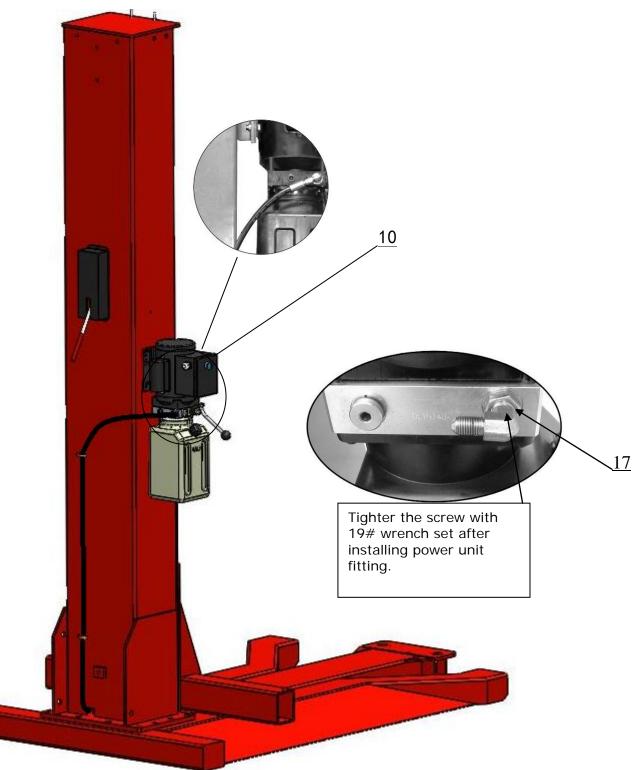


Fig.14

G. Install plastic cover(See Fig.15)

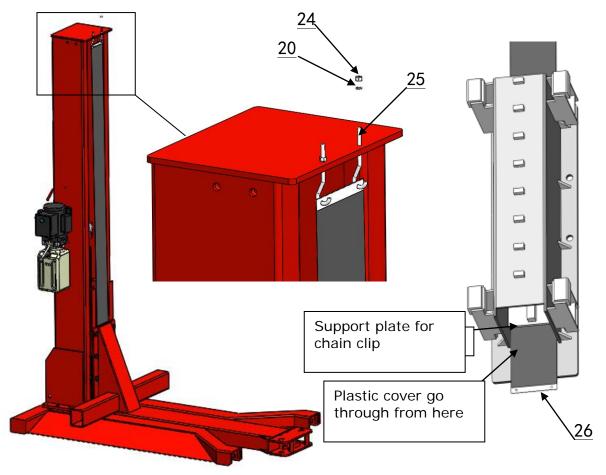


Fig.15

H. Connect the power source according to the data on plate of power unit Note: For the safety of operators, the power wiring must contact the floor well

Single phase motor (See Fig. 16)

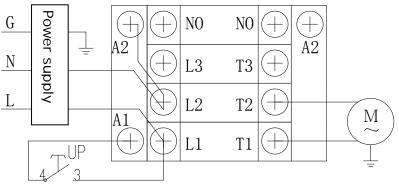
1. Connecting the two power supply lines (active wire L and neutral wire N) to terminals of AC contactor marked L1, L2 respectively.

2. Connecting the two motor wires to terminals of AC contactor marked T1, T2.

3. Connecting A2 to L2 of AC contactor.

4. Connecting terminal A1 of AC connector to terminal 4# of push button;

Connecting terminal L1 of AC connector to terminal 3# of push button;



Push button

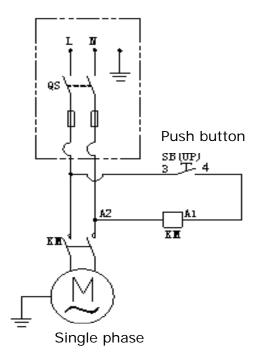


Fig.16

I. Install lifting arms

Lowing the carriages down to the lowest position, fix hex screw M8*16 with spring washerφ8 and washerφ8 separately(see Fig.17) then tighten the screw (See Fig. 18).

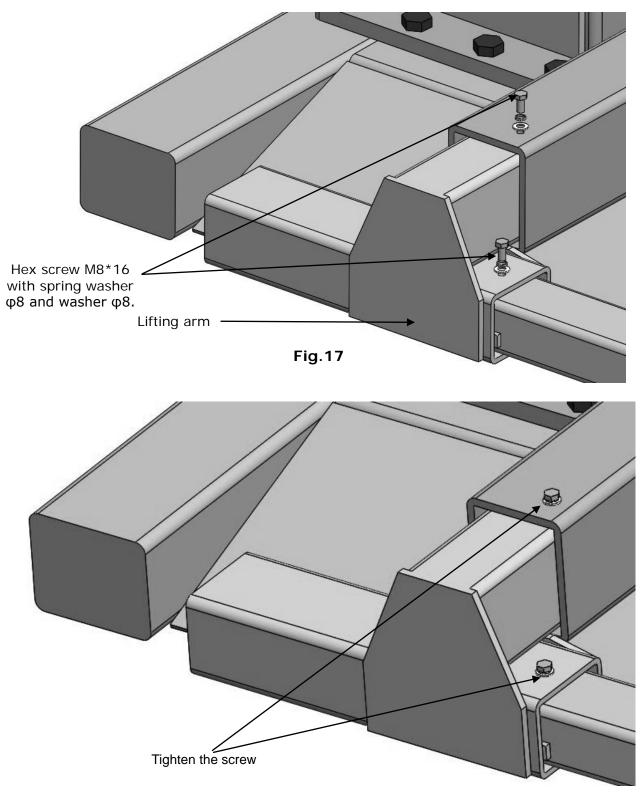
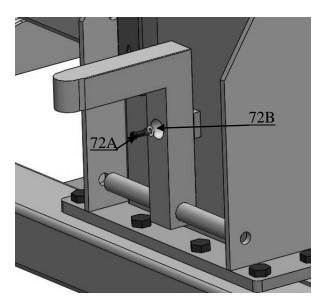


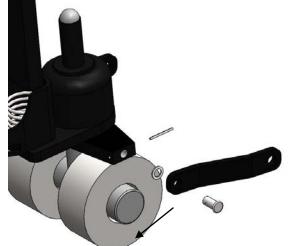
Fig.18

J. Install wheel assembly

First tighten the wheel assembly fixed square pipe by inner hex screw with spring washer φ 12 and washer φ 12(Fig.19). Put the wheel assembly into the fixed square pipe (Fig.20), insert the wheel assembly connecting board and fixed by elastic latch (Fig.21). Finally wheel assembly pin go through the fixed square pipe, and buckle the spring. (Fig.22)







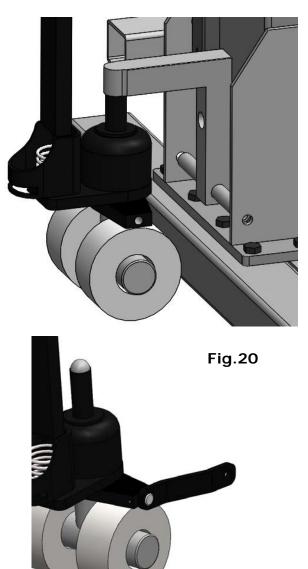
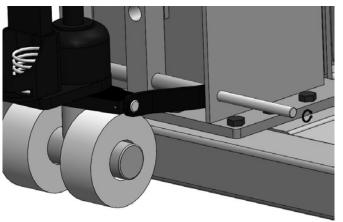
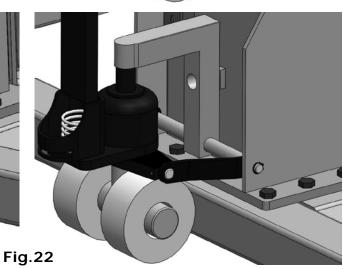


Fig.21





K. Tighten all the hydraulic fittings, and fill the reservoir with hydraulic oil. Note: In consideration of Hydraulic Power Unit's durability and keep the equipment running in the perfect condition, please use Hydraulic Oil 46#.

L. Using level to measure and adjust the column to be vertical (Fig.23).

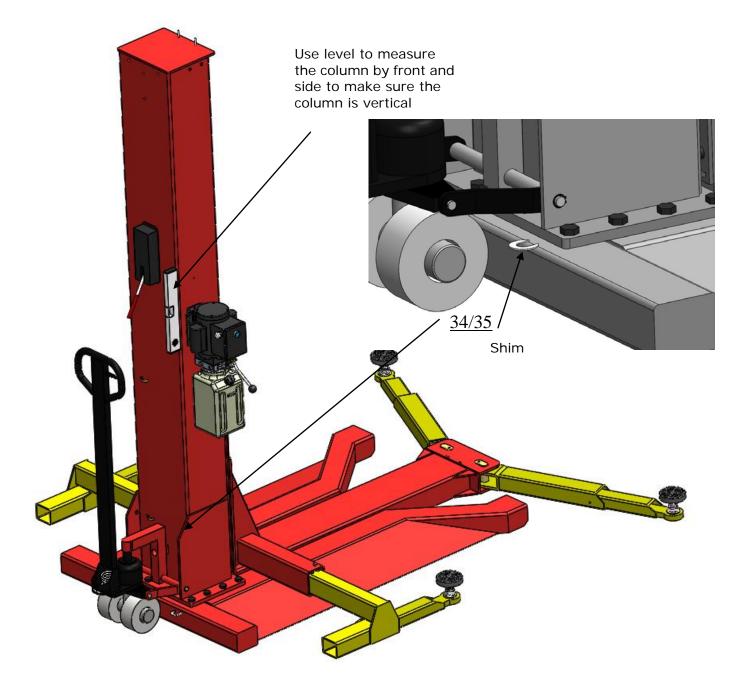
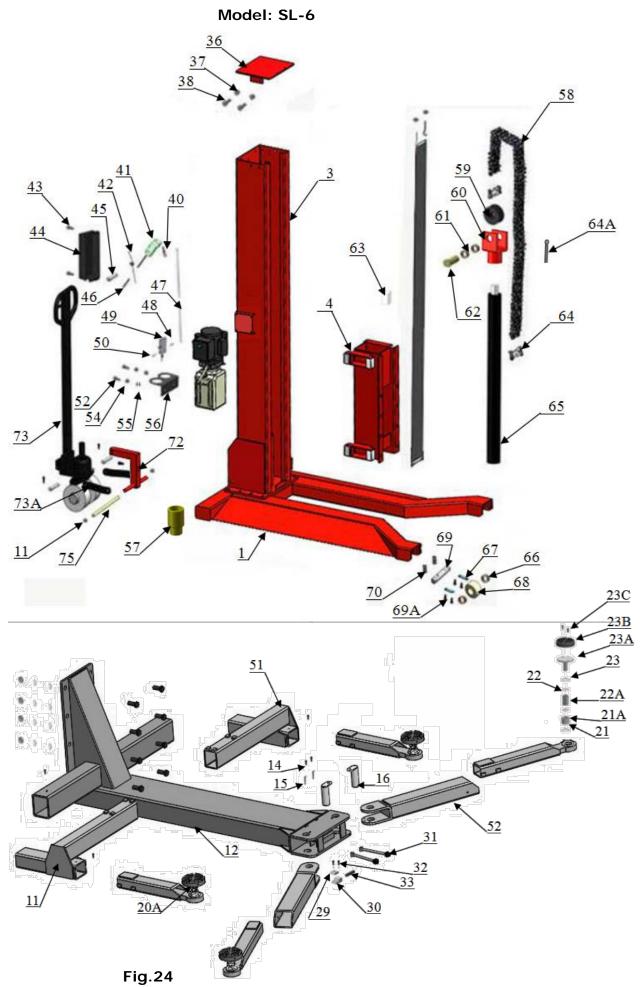
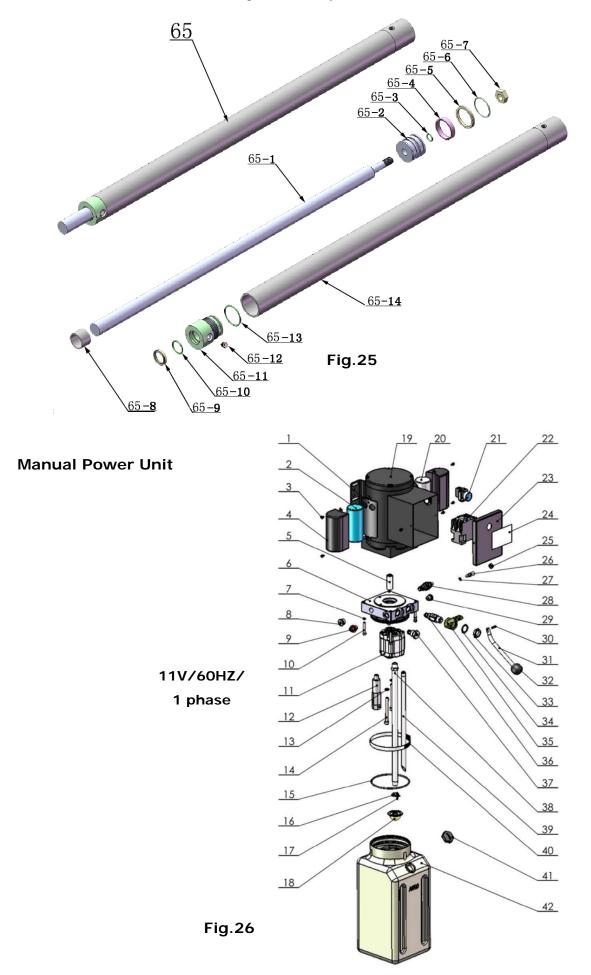


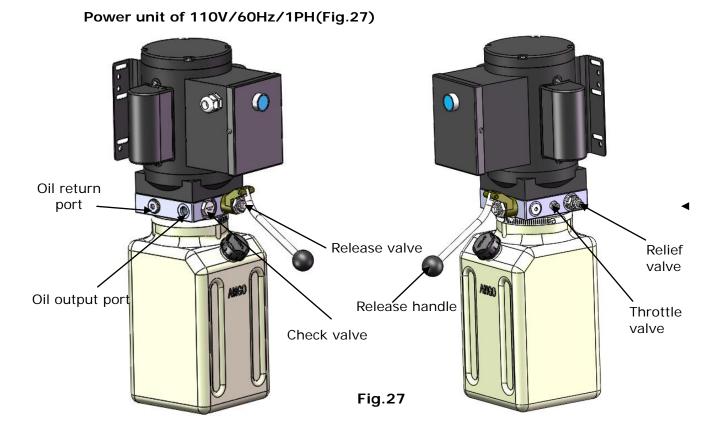
Fig.23

EXPLOEDED VIEW



Cylinder exploded view





V. TEST RUN

1. Adjust the lower speed (Fig.28)

You can adjust the lower speed of the lift if needing: Loosen the Fixing Nut of the Throttle Valve, and then turn the Throttle Valve clockwise to decrease the lower speed, or counterclockwise to increase the lower speed. Do not forget to tighten the Fixing Nut after the lower speed adjustment has been done.

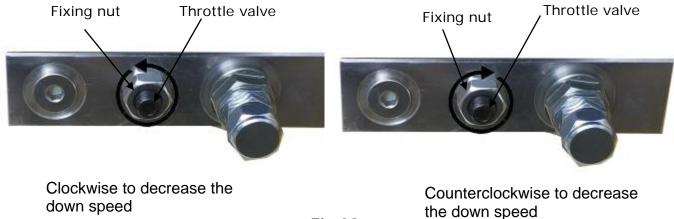


Fig.28

2. Test with load

After finishing the above adjustment, test running the lift with load. Lift the lift in low position for several times first, make sure the lift can rise and lower without improper. And then test run the lift to top position completely. If there are anything improper, repeat the above adjustment.

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

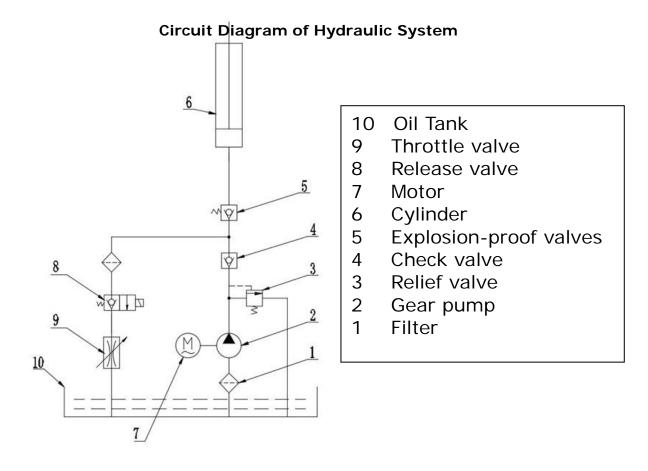


Fig. 29

VI. OPERATION INSTRUCTIONS

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 beside of the lifting arm, car should at the other side of the column;
- 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 the start button of the power unit raise the lift until the rubber pad full contact the car and ensure it's safe.
- 8. Continue raise the vehicle to the desired height and make sure the vehicle is steady when the lift is rising, then release the button of the power unit.
- Press the release handle of the power unit to lower the lift onto the safety lock. Make sure the safety device is on the normal working condition, then the vehicle is ready to repair.

To lower vehicle

- 1. Be sure the clearance of around and under the lift, only leaving operator in lift area;
- 2. Press the start button of the power unit to raise the vehicle slightly, and then open the safety device, then lower the vehicle by pressing the release handle of the power unit;
- 3. Open the arms and position them to the shortest length;
- 4. Drive away the vehicle.

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 the vertical of columns.
- 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 connection
Motor does	condition	
not run	3. AC contractor burned out	3. Repair or replace contractor
	4. Motor burned out	4. Repair or replace motor
	1.Motor runs in reverse rotation	1.Reverse two power wire
Motor runs	2. Release valve in damage	2.Repair or replace
but the lift is	3.Gear pump in damage	3.Repair or replace
not 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	3. Oil mixed with air	3. Fill tank
too slow	4. Gear Pump leaks	4. Replace Pump
	5. Overload lifting	5. Check load
	1. Safety device are locking	1. Release the safeties
Lift connot	2. Release valve in damage	2. Repair or replace
Lift cannot	3. Safety cable broken	3. Replace
lower	4. Oil system is jammed	4. Clean the oil system
	5.Hydraulic solenoid valve out of work	5. Replace the solenoid valve

IX. PARTS LIST FOR SL-6

Item		Part#	Description	QTY.	Note
1 102611		102611	Base	1	
2		201020	90° Fitting for Cylinder	1	
3		102606	Column	1	
4		102608	Carriage	1	
ļ	5	101002	Hex Bolt	10	
(6	201114	Lock Washer	18	
	7	209128	Washer	18	
į	8	101001	Hex Bolt	8	
(9	420175	Hex Nut	8	
1	0	071103	Power unit	1	
1	1	102612	Outer Lifting arm left front(Inside)	1	
1	2	102609	Lifting Platform Assy	1	
1	3	206019	Snap Ring	2	
1	4	101006	Screw	2	
1	5	101012	Connecting Pin Assy	2	
	6	101005	Carriage Pin Assy	2	
	7	209060	90° Fitting for Hydraulic Power Unit	1	
	8	206013A	Limit Switch	1	
	9	206011	Cup Head Bolt	4	
	20	420045	Washer	8	
	-	203054	Rubber Pad Assy	4	
	21	201060	O-Ring	8	
	21A	203024	Adjustment Tube	4	
	22	203042	Elastic Collar	8	
20A	22A	203025		4	
2011	23	203041	Adjustment Screw Elastic Collar	4	
	23A	203026	Rubber Pad Frame	4	
	23A	203020	Rubber Pad For Double Screw	4	
	23D	420043		8	
2	230	420043	Hex Socket Bolt Self Locking Nut	2	
	. <u>4</u> 25	203117	Adjustment Screw With Hook	2	
	26	101026	Plastic Baffle	1	
	27	209145	Cup head bolt M6*12	2	
28		101008	Rack	2	
29		101009	Rack Fixed Plate	2	
30		101011	Control Handle	2	
31		420043	Hex Socket Bolt	4	
3	2	720003	Spring	1	
33		101027	Oil Hose	1	
34		620065	Adjusting Shim	10	

Item	Part#	Description	QTY.	Note
35	201090	Adjusting Shim	10	
36	101013	Top Plate	1	
37	206023	Self Locking Nut	4	
38	217069	Hex Bolt	4	
39	206079	Cap Head Bolt	6	
40	101501	Parts box	1	
41	203002	Power Side Safety Device	1	
42	209007	Safety Spring	1	
43	209009	Cap Head Bolt	8	
44	209008	Safety Cover	1	
45	206002	Safety Pin	1	
46	206003A	Rubber handle sleeve	1	
47	203013	Coupling	1	
48	610026	Self Locking Nut	1	
49	203015	Safety Block(Main)	1	
50	205026	Hex Socket Bolt	1	
51	102610	Outer Arm(inside)	2	
52	101019	Outer Arm(outer)	2	
53	203101	Inner Arm(outside & inside)	2	
54	209034	Lock Washer	5	
55	209033	Washer	4	
56	203035	Stackable Adapter Set	1	
57	203034	Stackable Adapter	4	
58	101007	Chain	1	
59	207007	Chain Pulley	1	
60	207008	Chain Pulley Assy.	1	
61	420132	Bronze Bush For Chain Pulley	2	
62	207006	Pin For Chain Pulley	1	
63	217188	Slider Block	8	
64	201010A	Chain Connector	2	
64A	201005	Split Pin	1	
65	207010	Hydraulic Cylinder	1	
66	620141	Bronze Bush	4	
67	101675	Roller shaft limit block	4	
68	102011	Roller	2	
69	101672	Roller shaft	2	
69A	207021	Hex Socket Bolt	8	
70	680018	Spring	4	
71	201002	Hex Socket Bolt	3	
72	102607	Wheel Assembly Fixed Square Pipe	1	
72A	101029	Hex Socket Bolt	1	
72B	206006	Washer	1	
73	101028	Wheel Assembly	1	
73A	101030	Wheel Assembly Connecting Board	2	
74	420029	Washer	2	

75	102010	Wheel Assembly Connecting Pin	1			
76	217048	Retainer	2			
Parts For Hy	Parts For Hydraulic Cylinder					
65-1	207027	Piston Rod	2			
65-2	207028	Piston	2			
65-3	206069	O-Ring	2			
65-4	620053	Support Ring	2			
65-5	620054	Y-Ring	2			
65-6	630027	O-ring	2			
65-7	206071	Hex Nut	2			
65-8	207029	Hydraulic Cylinder Adjustment Tube	2			
65-9	217078	Dust Ring	2			
65-10	520058	O-Ring	2			
65-11	207030	Head Cap	2			
65-12	201034	Bleeding Plug	2			
65-13	207031	O-Ring	2			
65-14	207032	Cylinder Tube	2			

Order original parts when required from **GRAND PRIX IMPORT** at 1-800-361-4095

Parts F	or Manual Po	ower Unit 110V/60Hz/1 Phase		
1	81400180	Rubber pad	2	
2	81400073	Start capacitor	1	
3	420148	Cup Head Bolt With Washer	6	
4	81400066	Cover of capacitor	2	
5	81400363	Motor connecting shaft	1	
6	81400362	Manifold block	1	
7	10209149	Wash	4	
8	81400276	Hex bolt	1	
9	81400259	End plug	1	
10	85090142	Red plastic plug	4	
11	81400312	Gear pump	1	
12	81400294	Buffer valve	1	
13	10209034	Washer	2	
14	81400295	Socket bolt	2	
15	81400365	O ring	1	
16	10209152	Tie	1	
17	85090167	Magnet	1	
18	81400290	Filter	1	
19	81400412	Motor	1	
20	81400086	Run capacitor	1	
21	10420070	Push button	1	
22	41030055	AC connector	1	
23	81400287	Cover of Motor Terminal Box	1	
24	71111106	AMGO Sticker	1	
25	81400296	Nut	1	
26	81400459	Throttle valve body	1	
27	10209069	O ring	1	
28	81400266	Relief valve	1	
29	81400284	Plug	1	
30	81400452	Pin	1	
31	81400451	Handle for release valve	1	
32	10209020	Plastic ball	1	
33	81400125	Nut for release valve	1	
34	81400124	Shim for release valve	1	
35	81400449	Valve seat	1	
36	070001	Release valve	1	
37	070002	Check valve	1	
38	81400375	Oil inlet pipe	1	
39	81400376	Oil return pipe	1	
40	81400364	Clamps	1	
41	81400263	Filter cap	1	
42	81400320	Reservoir	1	

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