JGG-40SF
(QJY240B)

Two Post Lift
Installation & Adjustment Manual

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The manufacturer reserves the right to make design changes or add

improvements to its product line without notice.

1. Warning

This manual is an essential integral part of this equipment. Please read it carefully.

Properly keep this manual for use during the maintenance.

This lift is only used for its clearly designated purpose. never use it for other purpose.

The manufacturer is not responsible for any damage or injury caused by improper use for other purpose.

2. Summary

The lift double-cylinder hydraulic lifter is a new type of hydraulic drive vehicle elevator equipment by our company recently.

It is designed briefly and reasonably. It select hydraulic power unit, having merits of low noise, smooth rise-and fall. The machine has elevator carriage, safety device guard against falling, qualification equipment for ultimate load, lock equipment of revolution angle of lift arm, and the forced same step of the steel wires of elevator carriage.

Lower elevator carriage makes it have strong flexibility and convenient operation .It is the necessary elevator equipment in the vehicle industry.

3. Use

The machine can be use in elevating saloon car, beach wagon, and station wagon, which have lower than 4000kg deadweight. It fixes them at operational height needed in order to repair, service and clean.

4. Mainly technology parameter

Model	Lift quality	Lift height	Rise time	Fall time	Power of motor	Power supply	Passage width	Machine weight
QJY240B	4.0t	1928mm	<55s	>45s	2.2kw	380/220v	2750mm	730kg

NOTE: If use 220V power supply, the user should buy a manostat.

Please choose the correct power supply, or will cause damage to your lift or injury to you. Customers should response for the damage caused by the unstable voltage.

5. Basic structure of the production

The machine mainly has double-pole, double oil cylinders, hydraulic power unit, elevating carriage, steel wire in-step equipment, safety mechanism, and rotation-angle lock equipment of lift arm which can be operated simply.(as shown in Fig.1)

When you push the switch on the electric motor of hydraulic power unit, the machine will rise. If you loosen, it will stop. If you want to fall it down, you must pull the safety unlocked wire to apart the safety bracing plate from the safety seat firstly, and open the handle bar on the hydraulic power unit.

Gyration lift arm is telescopic and rotatable. Height of pallet can be adjusted in order to meet the different need of different kinds of vehicle.

Lock devices are installed on the four lift arms in order to lock automatically at arm angle work need. When carriage is at the bottom, lift arm can rotate freely.

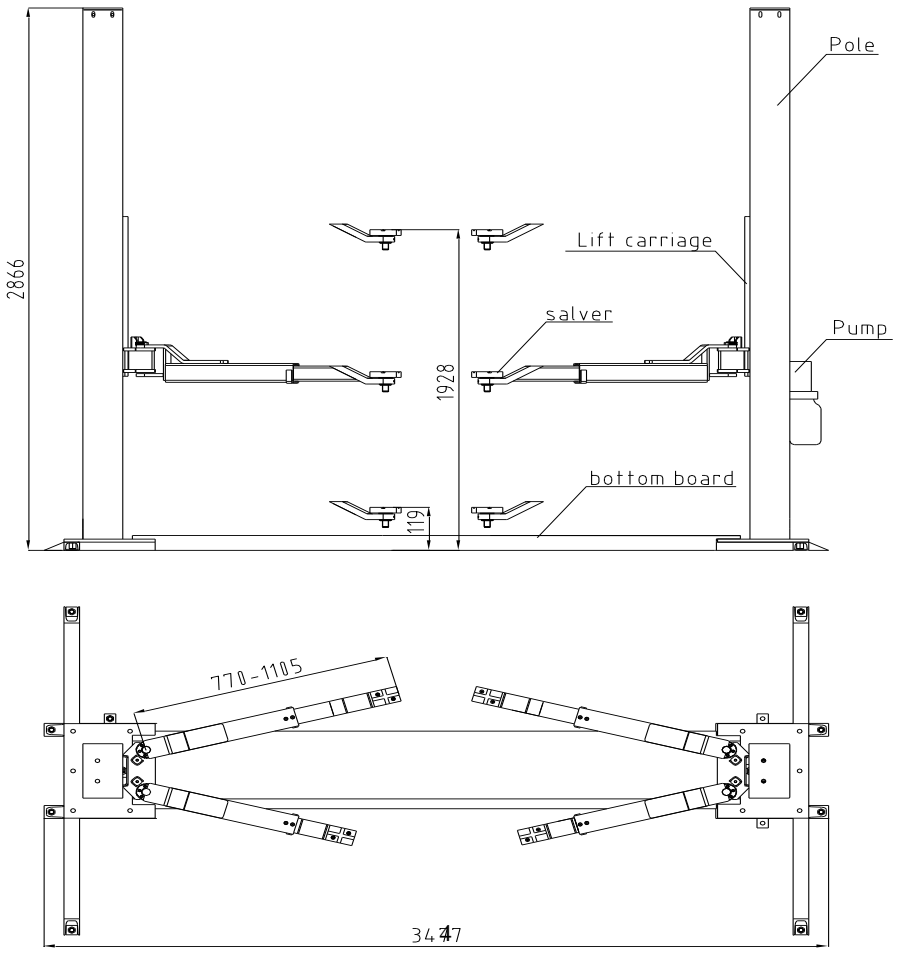

Fig.1

6. Safety device

The machine has safety device guard against crack falling no-pressure protection defending oil pipe overload. (as shown in Fig.2)

Safety bracing plates are designed on the left and right lift carriages. when lift pallet rise, safety bracing plate dragged by spring jumps in the safety block of pole. When stop the rise, safety-bracing plate dragged by spring is on the safety block and defends carriage falling. If the carriage would fall, crawling the hydraulic switch make the carriage rise a little firstly. Then draw the unlocked line on the left and right carriage in order to draw safety bracing apart from safety seat. Last, open the pressure relief valve on the hydraulic pump to make the carriage fall.

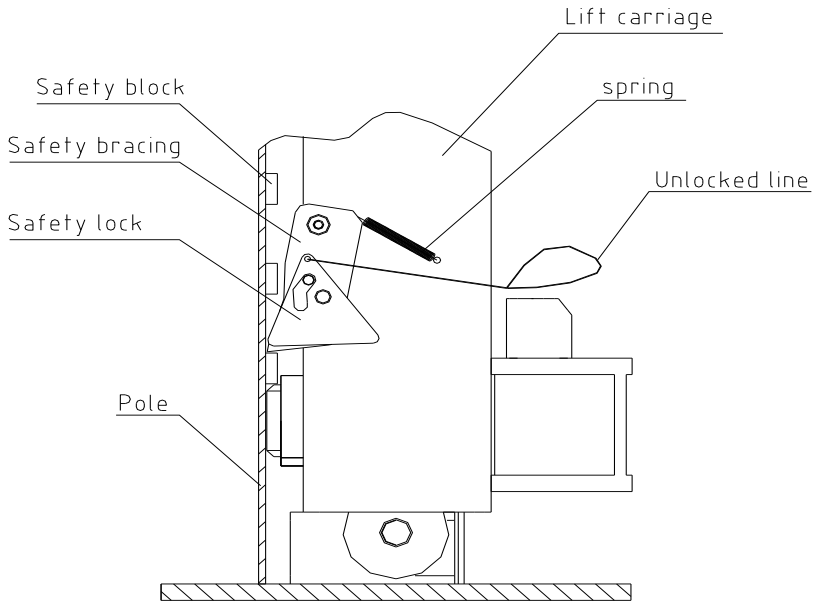

Fig.2

7. Installation and adjustment

7.1 Important notice

The wrong installation will cause the lift damage or personal injury. The manufacturer will not undertake any responsibilities for any damage caused due to incorrect installation and usage of this equipment, whether directly or indirectly.

The correct installation location shall be horizontal floor to ensure the horizontal lifting. The slightly slope floor can be corrected by proper shimming. The thickness of shims shouldn’t exceed 5mm.

Don’t install the lift on any asphalt or any surface other concrete floor conforming to the minimum requirement showed in this manual. Don’t

install the lift on the concrete with seams or crack and defect. Please check together with the architect.

Concrete drilling test: The installation personnel can test the concrete thickness at each site by drilling test. If several lifts are installed at one place, it is preferred to make drilling test in each site.

7.2 install the powerside column

first connect and assemble the powerside column, and then raise the powerside column upper right to the location. Align the base plate of column with the chalk line layout. Guided by the hole on the base lpate of the column, drilling the holes into the concrete slab and use five concrete anchor bolts to fix it into the ground. During the drilling process, ensure no movement from the chalk line.(As shown in Fig.4)

To get the correct and safety installation, please follow the following installation steps.

1. Wear the safety goggles.
2. Use hard alloy drill-bit.
3. Don’t use the drill-bit with wearing exceeding the tolerance.
4. The drill and concrete surface should be kept perpendicular.
5. Let the drill work itself. Don’t apply the extra force, and don’t ream the hole or allow the drill to wobble.
6. The drilling depth of the hole is based on the length of anchor bolt. The distance from the bolt head to the concrete floor should be more than twice of the bolt diameter.
7. remove the dust from the hole.
8. gently tap the bolt into the hole till the washer rests against the baseplate of column.
9. Tighten the bolt.

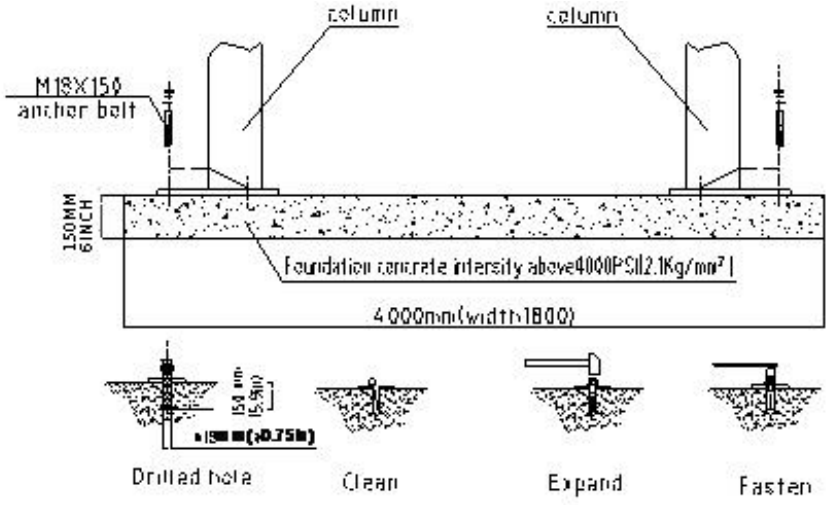

Fig.3

7.3 install and adjust the balancing steel cable

Rise the two carriages to the safety locking position (make sure that the safety locks on each column are fully engaged before attempting to install cables),and two carriages are in equal position from the floor (same height). Install the two steel cables as shown in Fig.5.

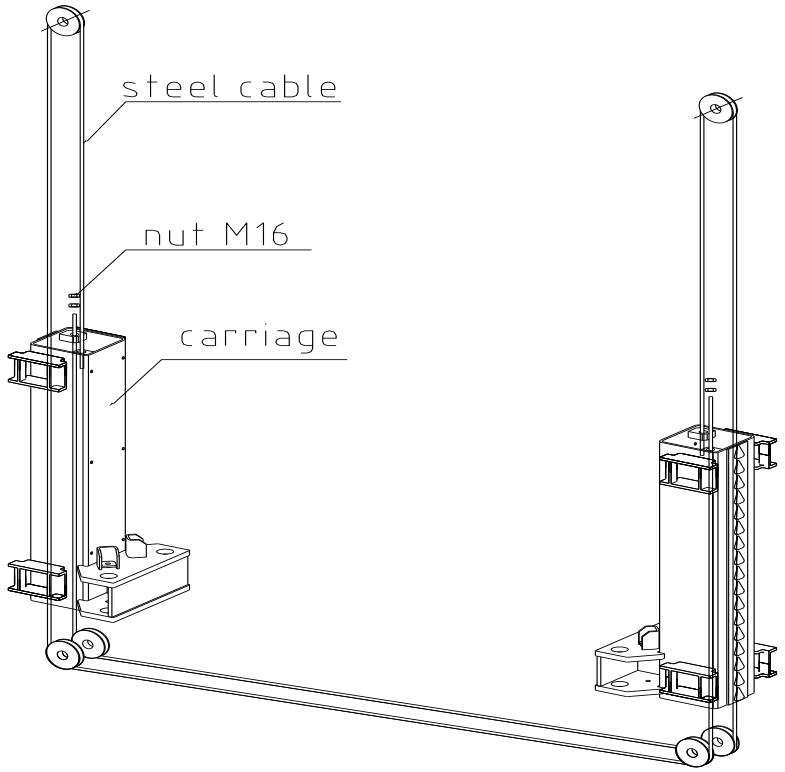

Fig.4

Adjust the tension of cables through the adjustment nuts on each end of steel cable. The steel cables should be in equal tension. Each steel cable should be ensured in the pulley when adjusting tightly, otherwise the steel cable will be damage.

7.4 install the power unit and hydraulic line

Use two M10 bolts and washers to fix the power unit as shown in Fig.6,iastall the hydraulic line, and tighten all the fittings to prevent oil leakage.

Fill the reservoir with hydraulic oil (oil capacity of 10L).operate carefully to avoid dust and other pollutants mixed with the hydraulic oil.

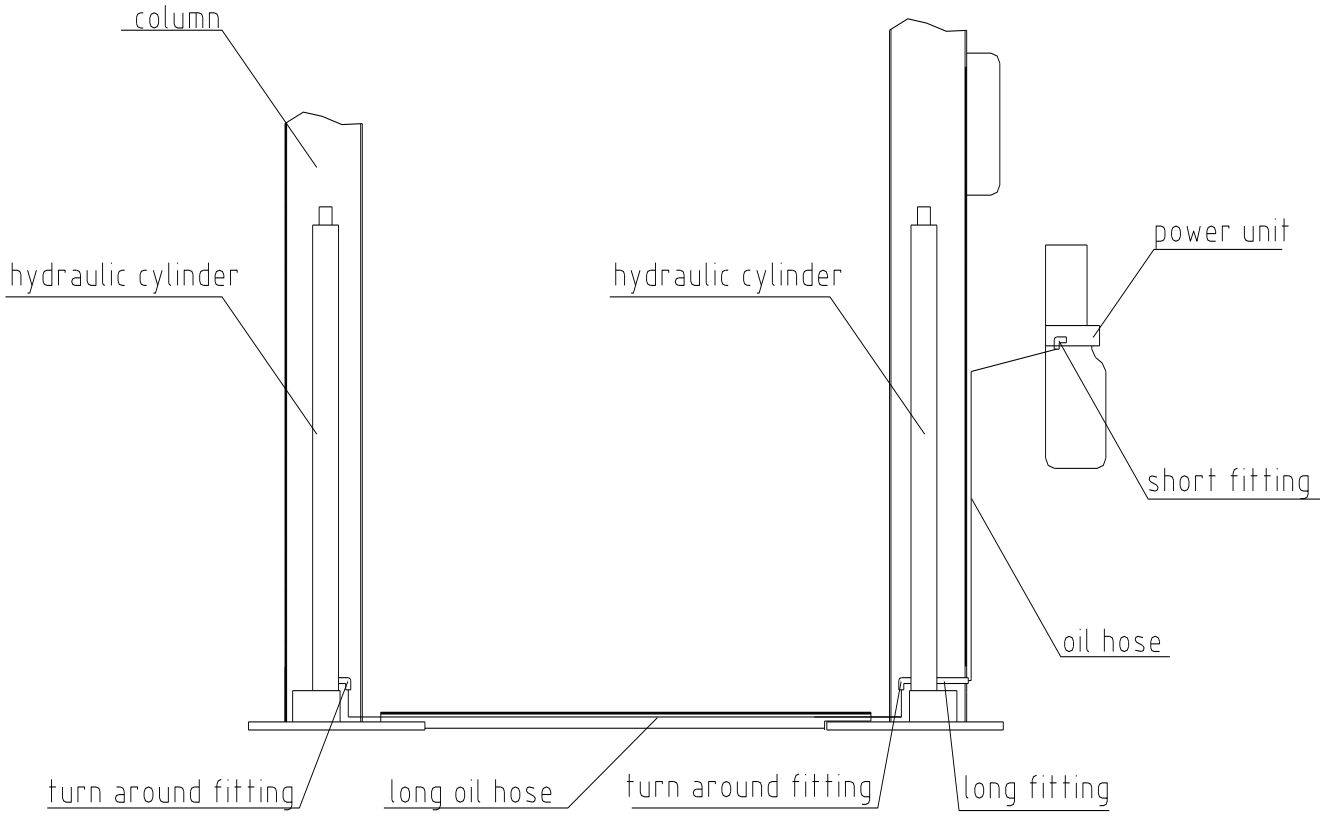

Fig.5

7.5 Adjust the steel chain

The steel chain has been adjusted properly by the manufacture(as shown in Fig.7), making the swing arm move freely at the lowest height without scratching the ground. The customer can make fine adjustment for chain after the hydraulic installation. Before adjustment, lift the carriage to a high position and lower for 2 second to engage safety lock, and then adjust the nut on the threaded end of the chain to the required position.

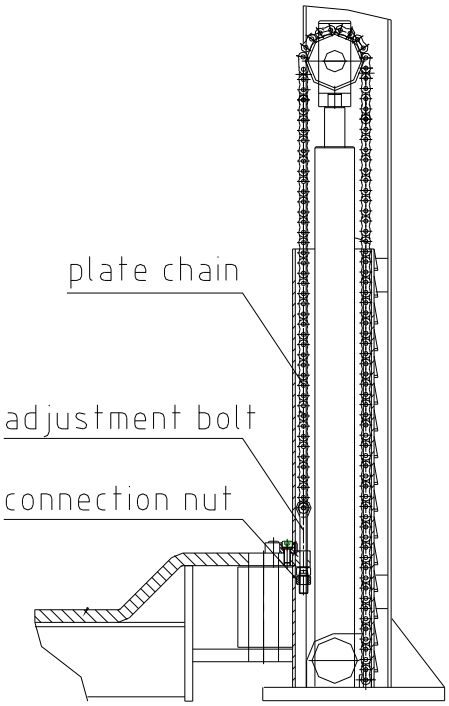

Fig.6

8. Lift adjustment

8.1 preparation before the adjustment

lubricate contact surface of the carriage and corners of column with general-purpose lithium grease. All sliding surface should be coated evenly from top to bottom.

Fill hydraulic oil N32or N46 to the oil reservoir of the power unit.

8.2 Adjustment procedure

Check to see if the power supply is installed properly.

Check to see if all the bolts are fastened.

Press the UP button to start the motor, and the carriage rise. Release the UP button, and the carriage stops. To lower the carriage, first draw the unlocked line on the left and right carriage. If it can't release the safeties, press the UP button again, then draw the unlocked line, then press the DOWN button, the carriage will lower. Release the DOWN button ,the carriage will stop lowering. When the vehicle is raised at required height, press the DOWN button, making sure the safety locked. Ensure the safe repairing under the vehicle.

The hydraulic system may contain air due to new installation. To bleed the air, repeat the lifting and lowering for several times.

The adjustment is completed.

9. Failure and repair

Failures	Reasons	Recovery methods
Electric appliance fail, can't start	Electric source phase lack or electric appliance failure	Check resource, fuse box, contactor in connection box of electric machine
Carriage crawl during rising	Air existing in the hydraulic system or oil lack in oil tank	Pour oil into tank, oil cylinder run total excursion some times or discharge the air in the oil tank
The left and right carriage don't rise synchronously	In-step forced wire becomes loose	Readjust properly the wire screw, heighten the wire and measure to make the left and right carriage be at the same height
Carriage can't fall or fall unwell-balanced	Operation mistake without pull the safety apart	Scrawl the switch to elevate the carriage a little and open pressure relief valve for falling after pall off the safety hook to make it run well

10. Packing list

Item	Name	Unit	QTY	remark
01	Main column subassembly (hydraulic cylinder、carriage、steel cable、hose)	Set	1 set	1# pack
02	Assistant column subassembly (hydraulic cylinder、carriage)	Set	1 set	
03	Bottom board	Set	1 set	
04	Gyration lift arm	Set	4 set	
05	Standard part	Set	1 set	2# pack
06	Anchor bolt M18X150	Piece	10pc	
07	Installation & Adjustment Manual	Piece	1 pc	3# pack

08	Power unit	Set	1 set	
Encasement	Checker	Date		

11.Diagram of the hydraulic system