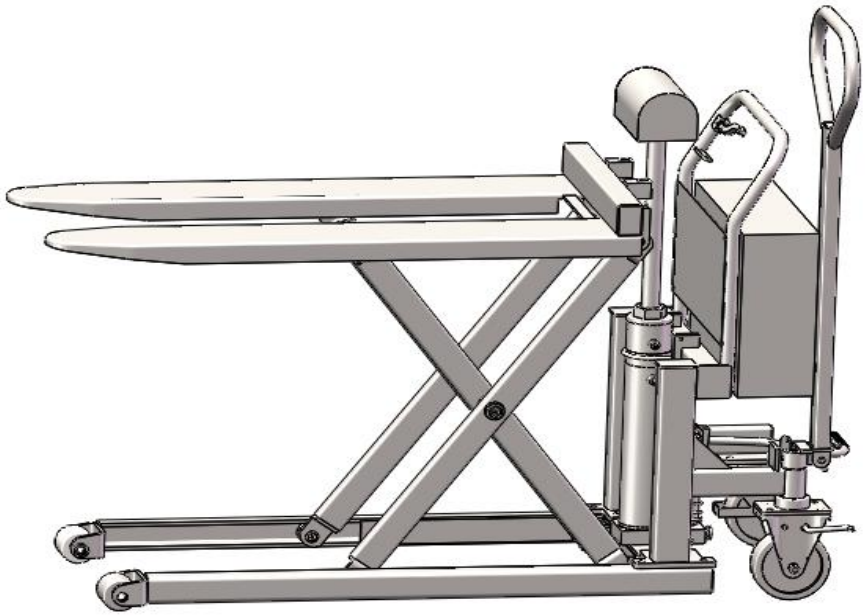
INSTRUCTION MANUAL

SKID LIFTER

MODEL PESOSL,PE100SL,PEL5OSL,P100



Note:Owner/operator must read and understand this instruction manual before using the hand pallet truck

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THANK YOU FOR CHOOSING OUR PALLET TRUCK FOR YOUR SAFETY AND CORRECT OPERATION,PLEASE CAREFULLY READ THE MANUAL BEFORE USE.

NOTE:All of the information reported herein is based on data available at the time of printing:The factory reserves the right to modify its own products at any time without notice or incurring in any sanction.Please verity with the factory for possible updates.

1.GENERAL SPECIFICATIONS

Model.		PE503	PE50L	PE100S	PE100L	PEL50S	PEL50L	PE100S	PEL100L
Capacity	(g):	500	.500	1000	1000	.500	500 •	1000	1000
Platform		without platform				With platform			
Min:bearing height	(mm)	85.				88			
Mac bearing height	(mm)	830				833			
Fork length	(mm)	1115							
Platform length	.(mm) •					:1115			
Fork width	(mm)	526.[	691	526	691				
Platform width	(mm)					538	703	538	703
			*						
Front roller	(mm)	Φ70x68 polyurethane				Φ70x68 polyurethane			
Steering wheel	(mm)	ò150*40 polyurethane				Φ150x40 polyurethane			
Overall-length.	(mm)	1620	1620	1740	1740	1620	1620	1740	1740
Overall width’	W1(mm)	580:	:740	:550	720	580	740	550	720
Overall height	H1(mm)	1050	:1050	1307	1307	1050	1050	1307	1307
Approx lifting at full charge and rated load (s)						≤25			
Hydraulic power.pack		MC3-61-VIB-FZ5-PF-MEN-TOH-F1							
Limitation of work cycle		MAX running time of 30 seconds with a me.interval of 180. seconds							
Motor	output (W)	1600							
	Voltage • D:C. ()	12							
	Revolutions minute (r/min)	3500							
Protection class		IP43							
Insulation:class		F							
Battery Charger	Input • A.C (V)	220							
	Output D.C ().	12							
Battery	Voltage.D.O (√)	12							
	capacity (AH)	100							
Net weight	(kg)	172 •	176	174	180	188	197	195	2(6

Special fork length is available:800,900,950,1000,1500,2000mm.
Materials and specification are.subject to change without notice.

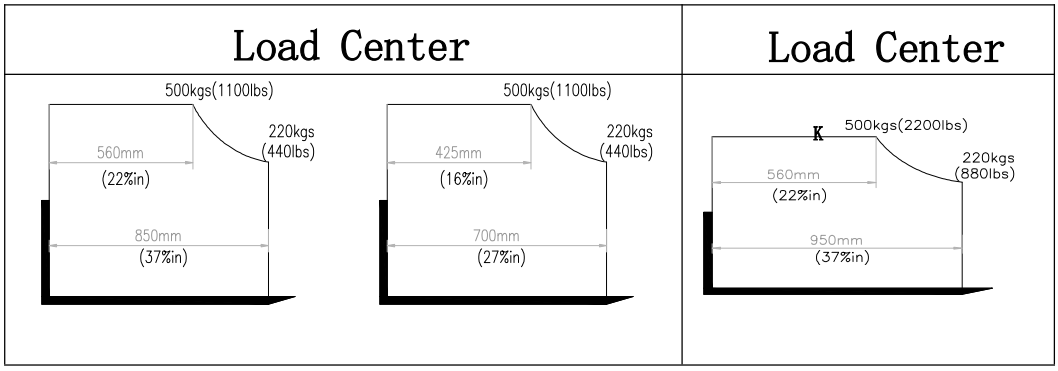
2.OPERATING LIFT TABLE

2.1LOADING DIAGRAM:

Following are the maximum capacity on.forks:

Model	Max. capacity	Model	Max. capacity
PE50S PE50L PEL50S PEL50L	500KG	PE100S PE100L PEL100S PEL100L	1000KG

However,the capacity fluctuates according to the position of load center:The following.diagrams are showing the relation between. the position of load center and capacity.



Example PE50S

If the load center is located at the position of 950mmi from the root of forks,the max.capacity become 200kg.Do not load more than 200k

2.2 OPERATION OF BRAKE

Braking the wheel Press the brake pedal on his.side of brake pedal.
Releasing the brake:Press the brake pedal on the other side.of :pedal

CAUTION:Always brake liter when it is not in motion.

2.3LFTNG UPFORKS

Insert the forks to the pallet to be lifter up and brake lifter.

Lift up the emergency stop switch fully.

Pull the control lever to the UP position and forks rise.

CAUTION:DO NOT overload liter.Stay within is rated capacity

DO NOT load one fork more than the other.Liner could be damage

2.4 LOWERING FORKS

Check if there is nothing under the forks or load:

Push the control lever to the DOWIN position and the forks lower.

Lowering speed changes according to the angle of the control lever. Release the control lever when the forks reaches to the,bottom of lit stoke.The forks stops when the control lever is released.

CAUION:DO NOT lower forks with load too fast and suddenly. Impact load could be created and lifter could be damaged.

2.5 EMERGENCY STOP.

Push down the emergency stop switch and the up of forks stops.

2.6 MOVING THE LIFTER:

Make the load stable to prevent it to fall.

Lower,the forks down to the height of approx 200mm from the. floor.

Release tho brake and move PE50S PE50L.with holding maneuver handle and move PE100S PE100Lwithi the up-handle.

CAUTTION:KEEP watching the condition of load.Stop operating

lifter if load become unstable

WARNING:DO NOT move lifter on slope or inclined surface.lifter become uncontrollable and create danger.

2.7 CHARGING·THE BATTERY

Check the quantity of Battery fluid.If it is insufficient,add the battery fluid.

Connect the charging port of battery socket to the battery charger.

3.MAINTENANCE

3:1 DAILYJNSPECTION

Daily inspection is effective to find.the.malfunction or.faulty on the lifter.

Check the lifter on the following points before the operation.

Check scratch,bending.or crack on the lifter

Check smooth movement of the lifter

Check if there is oil leakage from the cylinder and hydraulic power pack

Check vertical creep of forks

Check the function of brake

Check if all.the bolls and nuts are tightened firmly.

Check if there is scratch,crack or kink on the chain

Check the level and condition of the hydraulic fluid:

CAUTION:DO:NOT use lifter if any malfunction.or faulty is.found

3.2 REGULAR INSPECTION

Perform the regular inspection for the safety operation

Check if there is any rust,scratch,crack or kink on the chain.

Lubricate with grease the guides where roller moves.Also,lubricate the grease nipples and chains.(Every month)

Lubricate all the pivoting point and axles.(Every 6 months)

Replace the hydraulic oil for the first time:Accumulated working ten hours'

Replace the hydraulic.oil.(Every.12 months)

NOTE:It is recommended.to change the hydraulic fluid the first time after first ten hours of operation;Change the fluid afterwards at least once each year.Each time the hydraulic fluid is changed replace the filters and clean the tank.And fluid must be.rermoved. from tie system before changing the hydraulic fluid.The hydraulic fluid-used must.always be new and filtered.DO not mix hydraulic fluid from different manufacturers or of.different types,since.this may lead to the formation of sludge and sediments which.might reduce system operation:performances.The above refers to an optimum operating temperature range.of 30℃~60℃ (fluid temperature).Higher temperatures may lead to a drastic redultion in service life of the hydraulic fluid.

Use,the hydraulic type oil according to temperature scale.below:

Temperature	Oil
—5℃~45℃	L-HL46 Hydraulic oil(equivalent to ISO VG46
—15℃~5℃	L-HL32 Hydraulic oil(equivalent to ISO VG32

4.GUIDES TO SAFETY OPERATION

Note:On this manual,WARNING means the danger which can lead death or serious injury.CAUTION means the danger which can lead slight injury or property damage.

WARNNG:

- DO NOT put hand near chain sprocket or other moving parts. SEVERE.PERSONALINJURY could result:
- .DO NOT allow another person to stand in front of or behind

liter when it starts to move.

- ALWAYS travel with fork in lowered position.
- NEVER sit,stand or ride on forks or platform:SEVERE.
- NEVER go under forks or platform.SEVERE PERSONAL INJURY or DEATH could result
- DO NOT use in area of multi level floor Surface that could create.loss control and result SEVERE INIURY.and PROPERTY/DAMAGE
- DO NOT use liter on:slope,unlevel or soft surface.Lifter may become uncontrollable:SEVERE PERSONAL,INJURY.and PROPERTY DAMAGE could result
- KEEP FEET CLEAR of rolling wheels that could result in SEVERE PERSONALINUURY
- DO NOT load one fork more,than the other and DO.NOT load fps on forks.SEVERE PERSONAL INJURY PROPERTY DAMAGE could resit
- DO NOT overload lifter ALWAYS stay within,designated capacity and load center rating.SEVERE PERSONAL INJURY.and PROPERTY DAMAGE could result
- Replace chair every four years or jf Inspection reveals,excessive wear on inks;pins,side plates and deformed bent rusted or broken links,
- SHEARING HAZARD.NEVER place hands or feet under lowering forks.SEVERE PERSONALINIURY could result
- NORRE during charging Read battery operation manual.
- HIGH VOLTAGE disconnected battery socket before opening control panel box
- ho.NOT remove battery,terminal cover Short-circuit or electric shock could occur

- DO NOT tamper with any type of valve,fitting,access y or part of the applied hydraulic power pack;even simply loosening d valve might cause loads or structure to yield

- .BEFORE carrying out any type of operation or mark on the hydraulic; power pack disconnect the motors and any other type of electrical connection and disconnection operations must be carried out by skied and competent personnel
- USE safety guards when using the products according to the laws and regulations applied in county of destination,if necessary
- Do Nor turn the control level continuously without interval Strictly operate as defined

CAUTION::
Hazard or unsafe practice which, not avoided,may result in MINOR:OT MODERATE PERSONAL INURY and PROPERTY DANAGE:

- This lifter designed to use with stable uniform load on a solid level floor.

- DO NOT use the lifter for any other purpose than its intended use
- Liter shall be operated by TRAINED.personnel only. OPERATOR shall read."Operation Manual"completely and thoroughly understand the controls and operation of this equipment BEFORE operating the lifter.
- ALWAIS observe liter and ALWAVS stay at the controls while the lifter is in motion,RELEASE controls,and STOP liter immediately f load on lifter appears to become.unstable. NEVER leave the loaded lifter unattended unless the forks are. in the fully lowered position.

- DO NOT slide the load on or off the forks,The lift may move allowing the load to fall:SEVERE PERSONAL.INJURY and PROPERTY DAMAGE.could result
- DO.NOT use lifter with unstable,unbalanced or loosely slacked load.Unbalanced loads may become unstable and,fall. SEVERE PERSONAL INJURY and.PROPERTY DAMAGE could result
- ALL lifter service must be.performed by qualified personnel only:
- DO NOT use forks of it as a hoist or to pull up the load SEEVERE PERSONAL:INJURY and PROPERRYDAMAGE; could result.
- ALWAYS keep.feet hands and fingers away from casters,load wheels and all moving components SEVERE INJURY could Result
- ALWAYS perform maintenance and inspections with lifter. unloaded
- DURING operations such start-up normal work maintenance,system adjustment and bloof,operation and Drive on Valves and various control components,and soon,sudden sprays and leak of hydraulic fluid may occur and may reach temperatures that will bum the skin;
- Hydraulic fluid may be dangerous to your health and:contact with the skin and eyes,may cause serious injuries
- Carefully.follow the protection and safely instructions provided By manufacturer and reported on the product technical and toxicological sheet
- IN many cases,the temperature of the motors (especially DC motors)and the tanks may exceed the Bum Threshold"as defined:oy the international standard UNL EN563 Since,as a technical solution,it Is not possible to consider the reduction

of the surface temperature”(UNI EN563 appendix “C"),the user must consider the possibility of using personal protection measures (gloves).

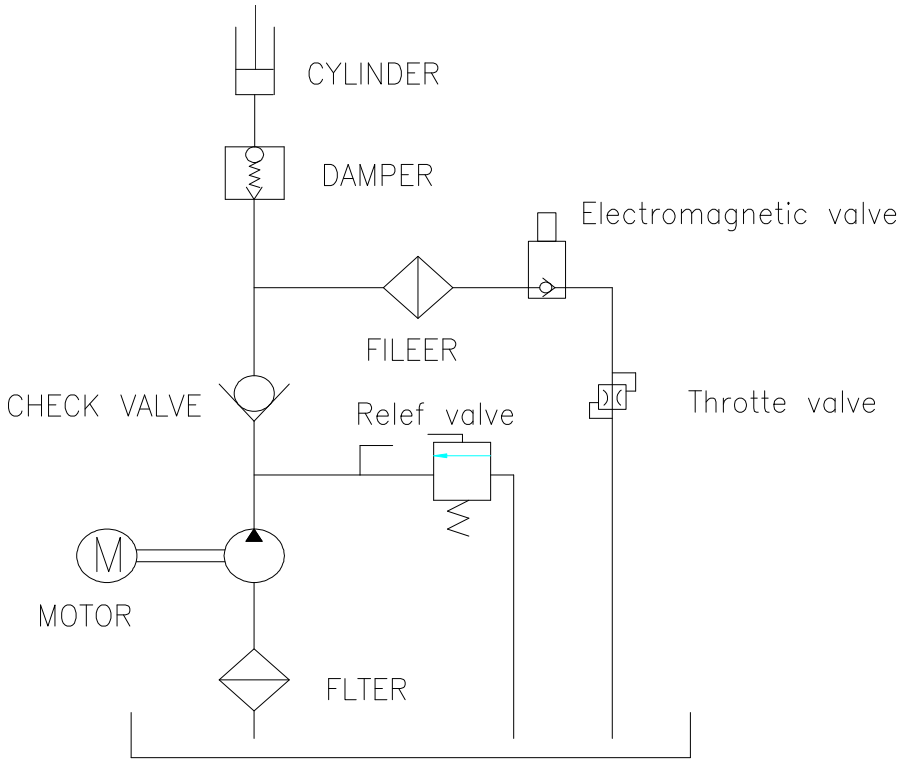
- .THE hydraulic power pack must be feed with the required voltage,should not exceed ±10%·of the.rated required voltage:Exceeding that value may reduce the service life of power pack and battery.
- .THE guard of micros witch in hydraulic power pack must be always mounted.
- The lifter is NOT waterproof and is intended to be used in a dry environment

5.TROUBLE SHOOTING

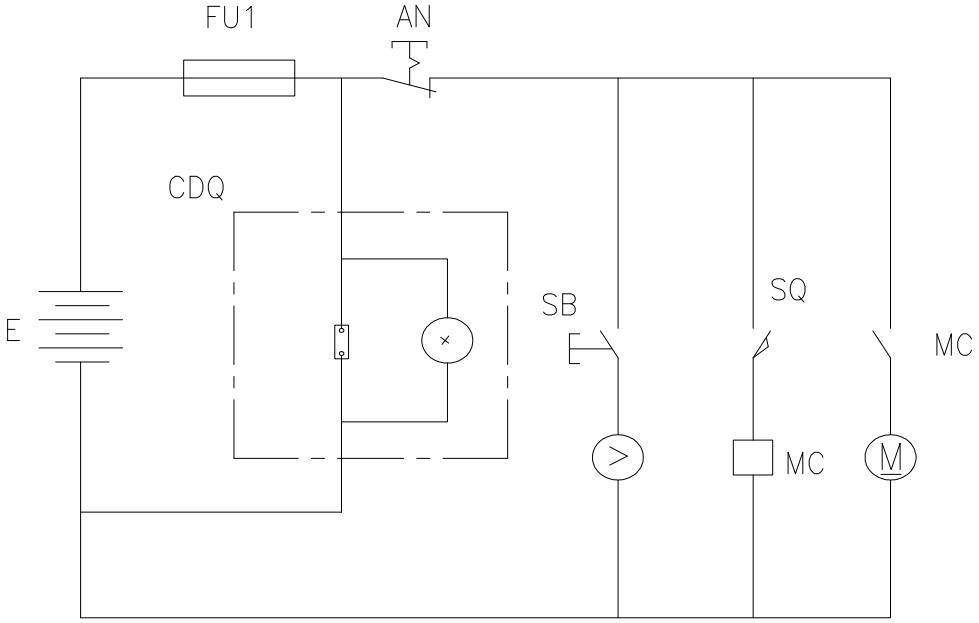
TROUBLE.	CAUSE	REPAIR
Forks do not raise while. motor does not run.	1 Faulty wiring.	1. Check the wiring referring to the actual wiring diagram.
	2Battery socket is disconnected:	2. Connect the battery • socket
	3. Battery charge is insufficient	-3. Charge the battery.
Forks do not rise while motor runs	1. Faulty adjustment of relief valve	1. Adjust relief valve again
	2. Faulty hydraulic pump.	.2 Replace power pack
	3. Shortage of hydraulic oil	3. Add oil:
Vertical-creep of forks	i. oil leakage in control valve.	1. Replace control valve
	2, Oi. leakage from hydraulic .…circuit	2. Check hydraulic circuit and repair.
Oil:leakage from cylinder.	Faulty sealing	Replace sealing
Oil leakage:from piping or. joint	Faulty sealing	Replace sealing.
Oil leakage:from. air breather;	Excessive quantity of oil	Reduce oil quantity.

**NOTE:DO NOT ATTEMP TO REPAIR THE PALLET TRUCK UNLESS YOU ARE TRAINED AND AUTHORIZED 70 DO SO.*

6. HYDRAULIC CIRCUIT/WIRING DIAGRAN



Hydraulic circuit



Instruction of the connection between High Pressure Hose and Valve body,

1.Remove the screw plug from valve body in the direction shown in Fig.1.

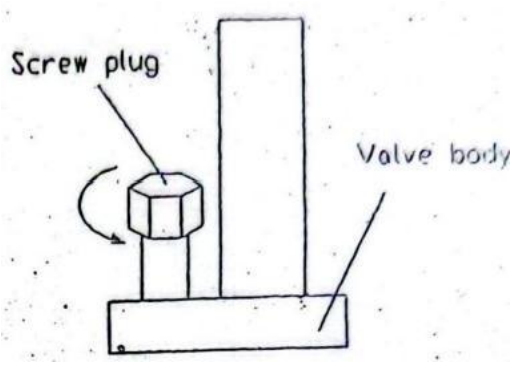
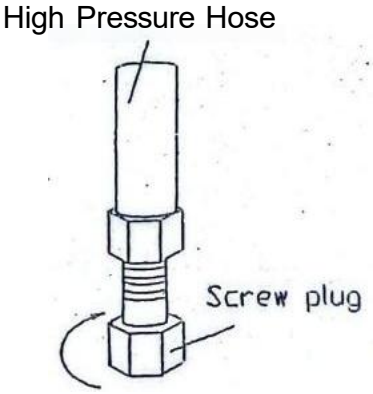


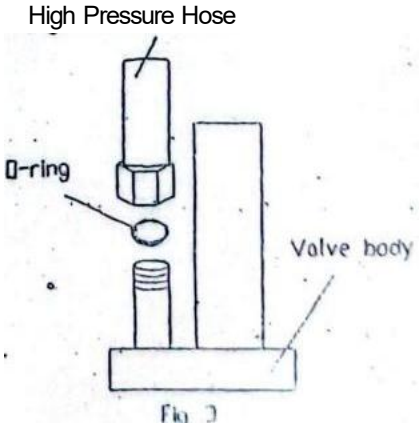
Fig 1

2.Remove the screw plug from High Pressure Hose in the direction **shown in Fig.2.**



.Fig .2

3.Connect the valve body with:High Pressure Hose as shown in Fig.3' **and then tighten them up.**



Note :Do not leave out the O-ring when assembling.

Setting instruction of the cover board.

1.Disconnect the cover board,in Fig.1.



Fig.1

Tum bridle and reconfigure the cover board.according to Fig.2.



Fig.2