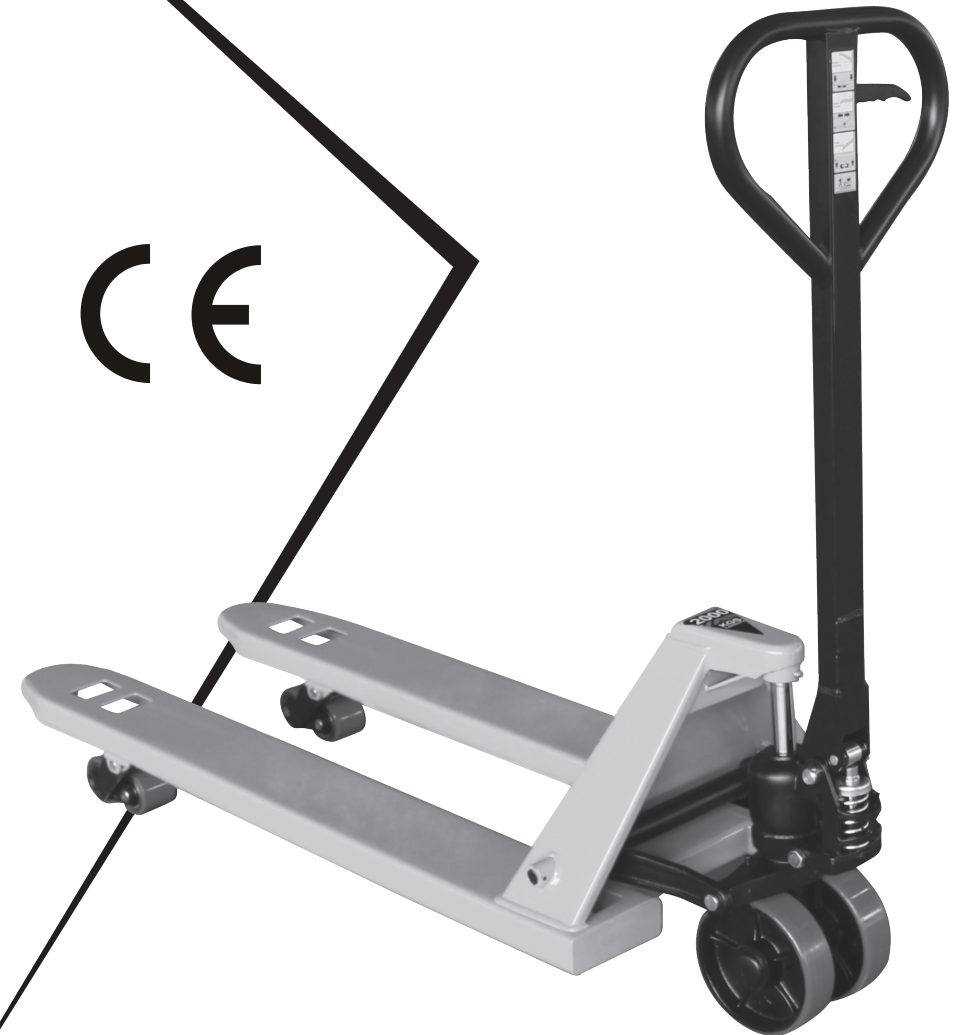


OPERATION MANUAL

HYDRAULIC HAND PALLET TRUCK

6. TROUBLE SHOOTING

No.	Conditions	Possible Cause	Action
1	fork does not raise to the highest position	-Insufficient hydraulic oil	-Add oil
2	Fork does not raise	-No hydraulic oil -Impure oil -Adjusting nut(111) is too high -Air in the hydraulic oil	-Add oil -Replace oil -Turn the nut(111) counter-clockwise -Exhaust the air(put the push bar in the lower position and push several times quickly)
3	Fork does not lower	-Lifting piston (109) or cylinder damaged due to overload -Piston is exposed and rusted because the fork is in the high position for a long time -Adjusting nut (111) is too low	-Replace the lifting piston(109) or cylinder (130) -Lower the fork to the lowest position when not used, and lubricate the piston rod in time -Turn the adjusting nut (111) clockwise
4	Oil leakage	-Seal parts aged or damaged -Some parts damaged	-Replace -Replace
5	Oil drainage rod does not work when the fork lowers	-Release rod loose due to impure hydraulic oil -Some parts in the hydraulic system damaged -Air in the oil -Seal parts aged or damaged -Adjusting nut (111) not in the right position	-Replace the oil -Check and replace the parts -Exhaust the air -Turn the adjusting nut (111)



WARNING: Personnel with special training are not allowed to repair this truck.

HYDRAULIC HAND PALLET TRUCK OPERATION MANUAL

APPLICATION:

Hydraulic Hand Pallet Truck can be both used for low lifting and short-distance transportation. Featured with stable lifting, flexible movement, easy-handling and safe-operation, it is applicable to plants, storehouses, ports, stations and goods yards, etc. without generating any electric spark and electromagnetic field, it is particularly fit for carrying flammable and explosive goods. This truck is also a kind of tool to carry spare parts in plants to protect the products from any bumping, which plays a vital role in raising the efficiency and reducing the labor intensity in order to achieve mechanization.

1. SPECIFICATIONS

Load Capacity	1680kg-2000kg	Fork Length	1100mm-1220mm
Fork Width	520/550mm	Fork Height(min/max)	75mm/190mm
Weight	50kg-55kg	Seamless Steel Pipe Contracted Cylinder	

2. HANDLE ASSEMBLY ON THE CYLINDER

Some tools such as hammer, wrench, pliers are needed after the truck have been purchased. Some spare parts such as handle pins (124) and two elastic pins (125) are packed in a plastic bag which has been attached to the handle. Use the tools to connect the handle to the cylinder.

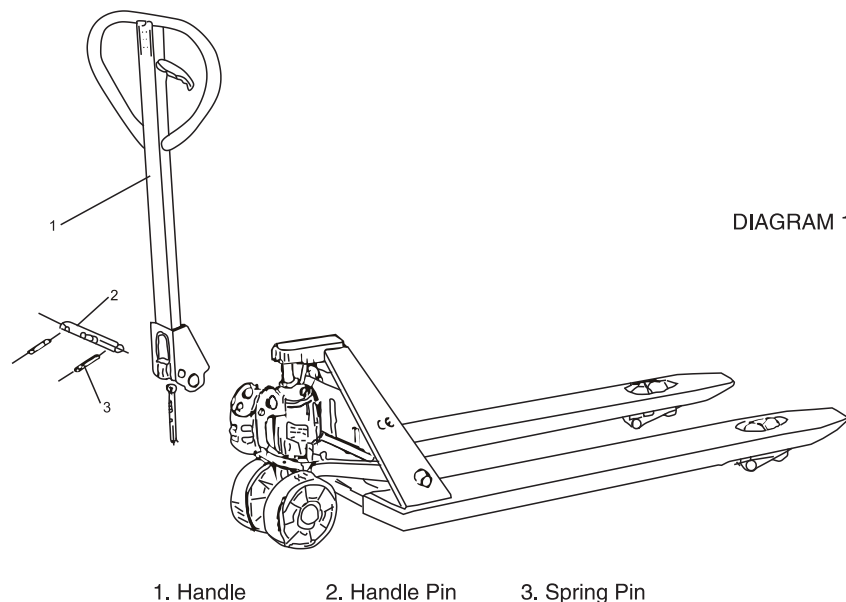


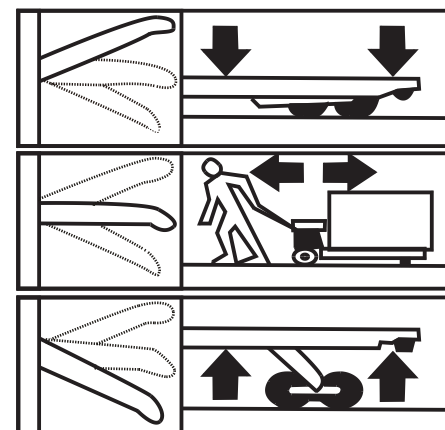
DIAGRAM 1

2.1 Put the Handle on the Pump Piston (117), and hammer the handle pin into the hole and then hammer the pin in after the precise positioning.

2.2 Screw the nut (111) off with a wrench and press the handle, and pull up the lowering lever (136). Put the hinge screw (314) in to its front groove, and screw the nut (315). In this way, the handle is assembled on the cylinder.

3. ADJUSTMENT

Three adjustable positions are available on the control lever (318).



These three positions have been set before leaving the factory. If any change happens due to some accidental means, please operate as follows:

3.1 The fork rise when the control lever in the NEUTRAL position. Turn the bolt (314) clockwise until the fork stops rising when pumped.

3.2 The fork lowers when the control lever in the NEUTRAL position. Turn the nut (315) counter-clockwise until the fork stops dropping.

3.3 The fork does not lower when the control lever in the LOWER position. Turn the nut (315) clockwise until the fork stop dropping. Check the NEUTRAL position (DRIVE position) to make sure the nut in the desired position according to 3.1 and 3.2.

3.4 The fork does not lift when the control lever in the RAISE position. Turn the adjusting nut (315) counter-clockwise until the fork continues to rise, and check the LOWER and DRIVE position according to 3.1, 3.2 and 3.3.

4. MAINTENANCE

Regular maintenance is needed.

4.1 Add Oil

Check the oil tank every 6 months. Hydraulic oil: L-HM32-46, Oil Mass: about 0.41L.

4.2 Exhaust

Due to the transportation and inversion of the cylinder, the air may run into the oil, which may cause the fork fail to rise when the control lever in the RAISE position. Please exhaust the air as follows: Set the control lever (318) in the LOWER position, and pull the handle (301) several times.

4.3 Daily Maintenance

Pay special attention to the wheels and axles to check if any intertwining by cotton thread or cloth strips. After the transport, unload all goods and ensure forks are in lowered position.

4.4 Lubrication

All bearing and pins have been lubricated before the truck leaving the factory. You only need to add some lubricant during the monthly breaks or thorough cleaning.

5. SAFETY INFORMATION

5.1 Please read carefully this operation manual and all the warning labels before operating.

5.2 Set the control lever in the NEUTRAL position when pulling the truck, which not only aims to move the handle easily and reduce the rebound force from the pump piston, but also protect the hydraulic seals and piston assembly to increase the service life.

5.3 Personnel without training are not allowed to operate it.

5.4 Check every time before use, especially the wheels (139, 213), arm and

5.5 Do not use it on the slope.

5.6 Do not load human.

5.7 Operators are recommended to put on protective gloves.

5.8 No one should stand within the range of 600mm from the fork frame while transporting goods.

5.9 Be aware of the position of the goods and avoid imbalance.

5.10 No overload.

5.11 Operators should be cautious in special situations or places.

Fig.2

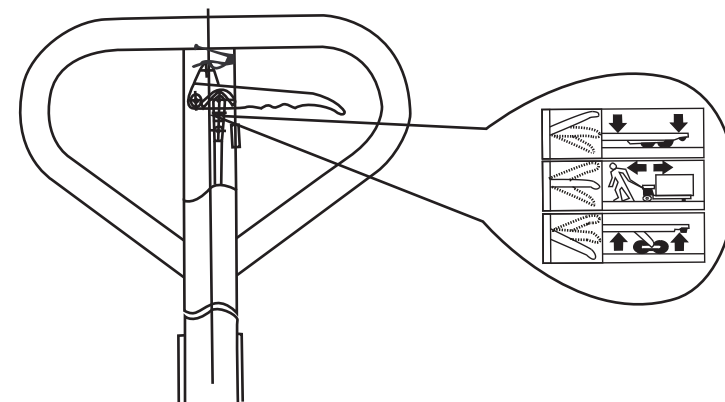
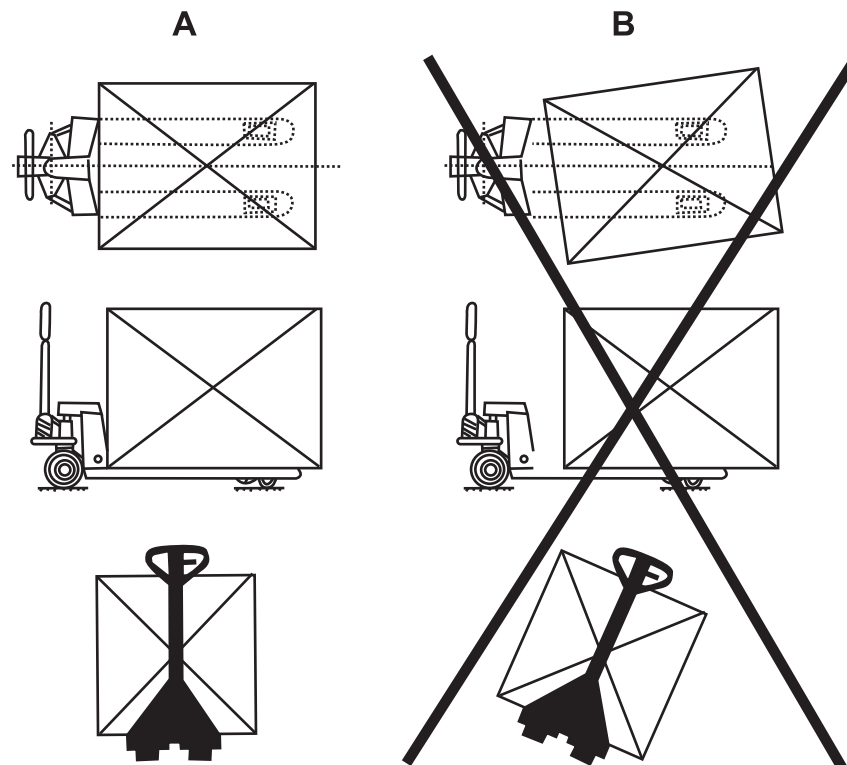
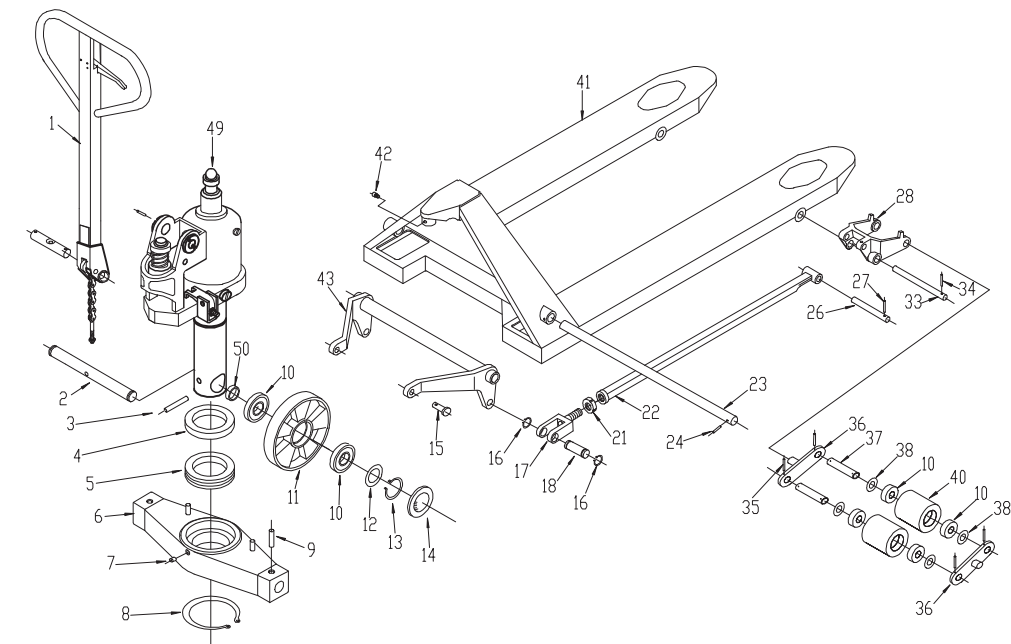


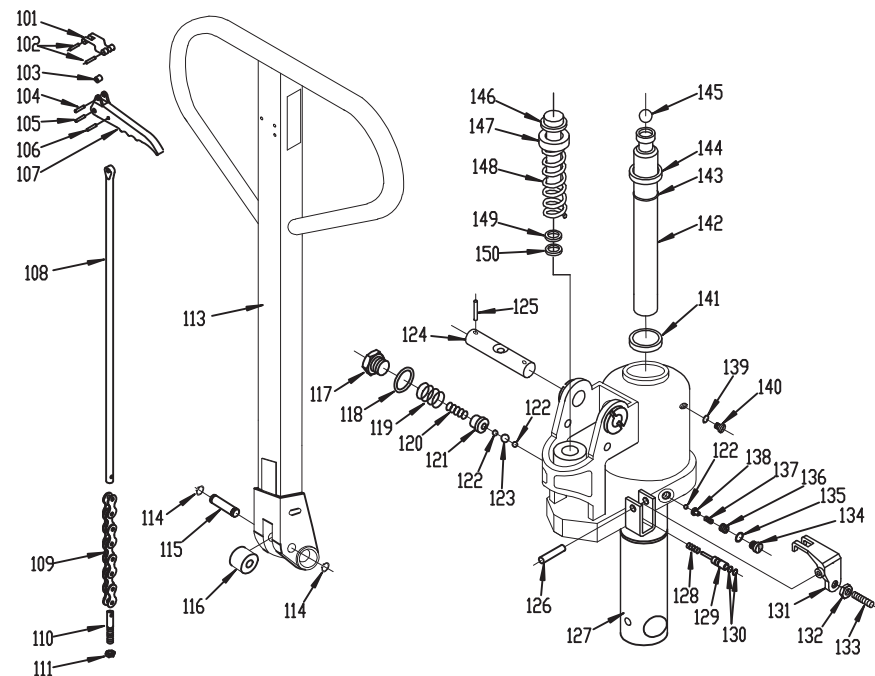
Fig.3





Spare Parts of SYP-III Hand Pallet Truck

NO.	Description	Quantity	NO.	Description	Quantity	NO.	Description	Quantity	NO.	Description	Quantity
1	Handle Assembly	1	11	Steering Wheel NL/PU	2	23	Rocker Shaft	1	38	Washer	8
2	Rear Wheel Shaft	1	12	Washer	2	24	Spring Pin Φ5*30	1	40	Loading Wheel NL/PU	4
3	Spring Pin Φ5*40	1	13	Snap Ring	4	26	Push Shaft	2	41	Frame	1
4	Bearing Plate	1	14	Wheel Cap	2	27	Spring Pin Φ4*25	2	42	Hex Nut	1
5	Bearing	1	15	Base Pin	2	28	Wheel Bracket	2	43	Rocker Arm	1
6	Base	1	16	Snap Ring	4	33	Wheel Bracket Shaft	2	49	Pump	1
7	Nipple	1	17	Rod End	2	34	Spring Pin Φ5*30	2	50	Sleeve	2
8	Snap Ring	1	18	Rod Shaft	2	35	Spring Pin Φ5*30	8			
9	Spring Pin Φ5*30	2	21	Screw Nut M18*1.5	2	36	Balance Arm	4			
10	Bearing 6204	12	22	Push Rod	2	37	Wheel Shaft	4			



Spare Parts of SYP-III Hand Pallet Truck

NO.	Description	Quantity	NO.	Description	Quantity	NO.	Description	Quantity	NO.	Description	Quantity
101	Spring Plate	1	115	Shaft	1	128	Oil Spring	1	141	Y-Ring	1
102	Spring Pin Φ4*30	2	116	Roller	1	129	Oil Rod	1	142	Piston Rod	1
103	Small Ball	1	117	Sealing Screw M14*1.5	1	130	O-Ring	2	143	O-Ring	1
104	Spring Pin Φ4*20	1	118	Copper Washer	1	131	Rocker	1	144	Dust Ring	1
105	Spring Pin Φ6*30	1	119	Spring	1	132	Hex Nut	1	145	Steel Ball Φ18	1
106	Spring Pin Φ4*12	1	120	Spring	1	133	Bolt	1	146	Plunger	1
107	Control lever	1	121	Valve Bushing	1	134	Seal Plug	1	147	Spring Cap	1
108	Long Rod	1	122	Steel Ball Φ6	3	135	O-Ring	1	148	Spring	1
109	Chain	1	123	Steel Ball Φ9	1	136	Screw	1	149	Dust Ring	1
110	Bolt M5	1	124	Shaft	1	137	Pressure Spring	1	150	Y-Ring	1
111	Screw Nut M5	1	125	Spring Pin Φ5*30	2	138	Spring Base	1			
113	Handle	1	126	Spring Pin Φ6*20	1	139	O-Ring	1			
114	Snap Ring	2	127	Pump	1	140	Screw M8	1			