

Operation Manual

Parts List



CAPACITY:1000 kgs

HIGH LIFT HAND TRUCK

With single ram

CAUTION: Owner and Operator **MUST** read and understand this manual before use the truck.

Specifications

Model	HLT1C	
Rated lifting capacity	1000 kgs	
Max. Fork height	800 mm	
Min. Fork height	85 ±2 mm	
Fork length	1150 mm	
Fork width (outside)	540 mm	680mm
Pump times	Fast: 28	Slow: 78
Descending speed	∠0.1 mm/second	
N.W.	128 kgs	133kgs

Safety Instructions

1. The truck shall be used in accordance with instructions handbook.
2. Don't put the hand & foot under the fork at any time.
3. Don't work on the slope surface.
4. Quick lifting is prohibited for loads of more than 300 kgs. Any manipulation of the pressure relief valve is strictly prohibited. All assembling, adjusting and maintenance shall only be done by industrial mechanics trained people. These people must be familiar with all safety regulations of European and national where the item is in use relating to the operation and maintenance of pedestrian controlled industrial trucks.
5. Load should be put on the fork center. Side-load is strictly prohibited.
6. The truck shall not be used to transport persons.
7. It is recommended to the driver to wear security shoes.
8. No modifications shall be carried out which adversely affect the compliance of the truck with prEN 1757-4.

Installation & Adjustment

1. Screw(part No.132)

- To prevent oil-leaking from oil tank during transportation, Air Screw (part No.132) is replaced with Oil-sealing Screw in the factory. But it has to be replaced back when you put this truck in use.
- How to change: Screw out Oil-sealing Screw, then screw in Air Screw , thus keep oil tank always connecting with atmosphere.

2. Handle

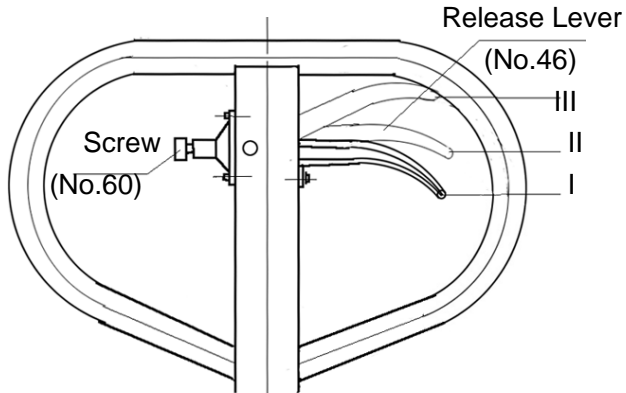
During transportation, the handle is disassembled from the truck and packed separately. It has to be assembled back and adjusted properly and carefully before use.

A. Handle installation:

- Take 3 pieces of M10 Nut (No.49) & Hex Wrench from spare parts bag. Select handle to match the truck with the same fitting numbers.
- Assemble the handle on the Handle Base (No.55) with 3 pieces of M10 Nut & Spring Washer tightly.
- Put the chain's Eye Bolt (No.36) in the slot at the front end of Pendulum Arm (No.124)

B. Handle adjustment

- **There are 3 different positions with different functions for the Release Lever** (part No.46).
See picture 1



Picture 1

Position I: Quick lifting for fork.

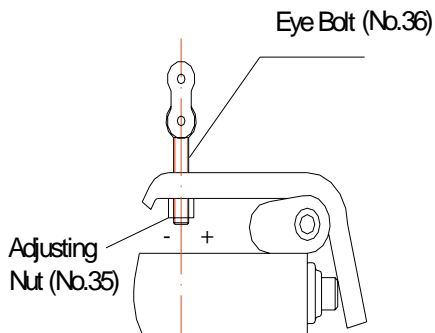
Position II: Slow lifting for fork

Position III: Descending for fork

- **Test different functions by putting the Release Lever in 3 different positions respectively.**

If it does not function properly, then adjusting Lock Nut (No.35) by following process.

See picture 2

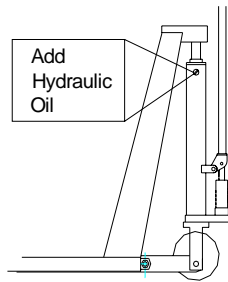


Picture 2

Problems	Turning direction of Lock Nut
Fork not lifted up	- (clockwise)
Fork not lowering down	+ (counter-clockwise)

3. How to release the air from the pump.

See picture 3



Picture 3

When pushing the handle down, the fork can't be lifted instantly. Please loosen the Screw (No.130) on the pump while pushing the handle down slowly to release the air from the pump. Then tighten the screw.

4. When to add oil

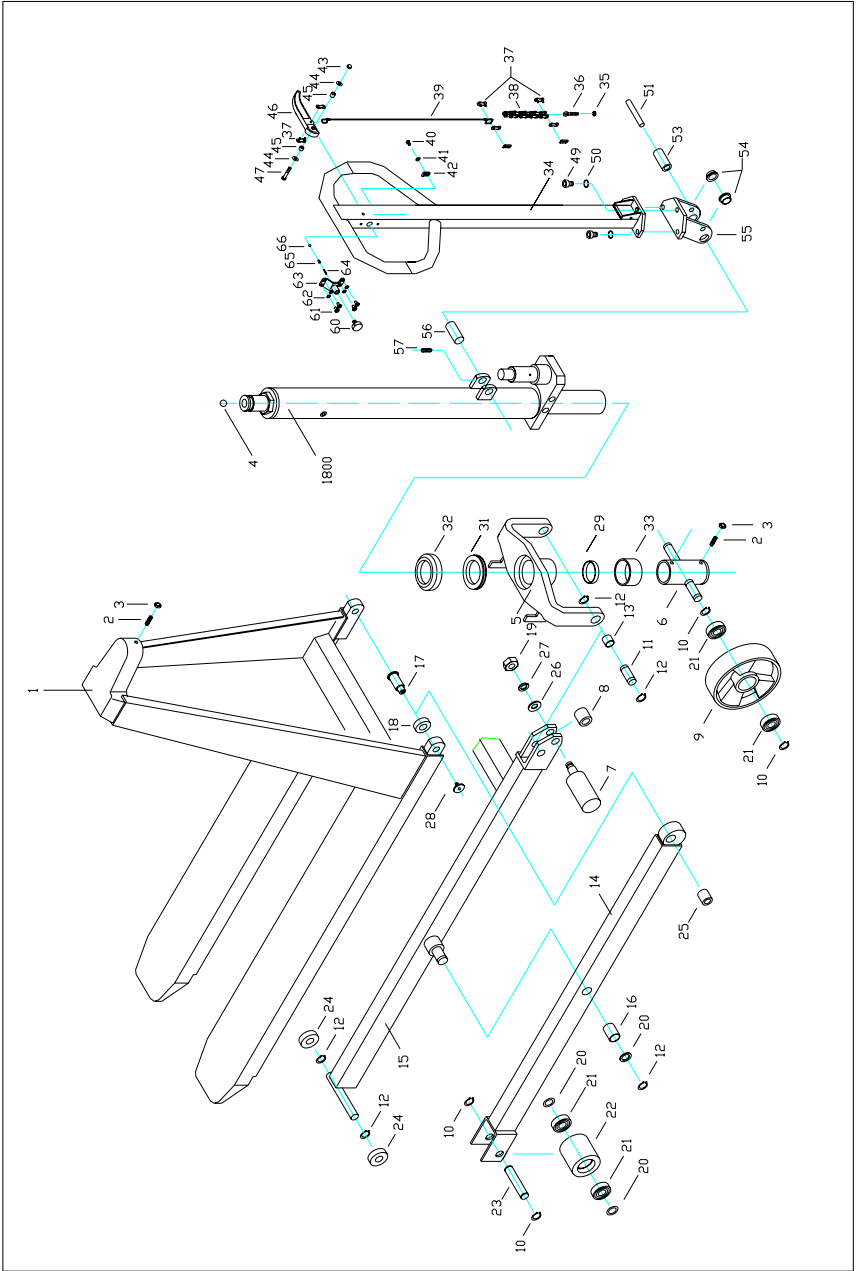
See Picture 3

If the fork can't be pumped up to its rated highest position, you may have to add hydraulic oil into the oil tank. The hydraulic fluid to be used must have a quality of ISO VG22 or equivalence. Mixing of different fluids is prohibited!

TROUBLE SHOOTING GUIDE

Items	Symptom	Possible cause	Aliments
1	Fork can not be pumped up	<ol style="list-style-type: none"> 1. Low oil level in oil tank. 2. Exist air in the hydraulic system. 3. Pendulum arm nut is not adjusted properly. 	<ol style="list-style-type: none"> 1. Add proper hydraulic oil. 2. Fast operating the handle for several times. Bleed the system. 3. Adjust pendulum arm screw.(see picture 2)
2	Fork can't be released down	<ol style="list-style-type: none"> 1. Fork blocked. 2. Pendulum arm nut not adjusted properly. 	<ol style="list-style-type: none"> 1. Check and remove the block. 2. Adjust pendulum arm nut properly. (see picture 2)
3	Fork can't be pumped up to rated highest position.	Oil is not enough.	Add hydraulic oil. (see picture 3)

1	Fork	1	34	Handle	1
2	Screw	2	35	Pendulum Arm Nut	1
3	Nut	2	36	Eye Bolt	1
4	Ball	1	37	Chain Connector	3
5	Hold Yoke	1	38	Chain	1
6	Wheel Yoke	1	39	Release Rod	1
7	Centrifugal Axle	2	40	Screw	1
8	Spacer	2	41	Washer	1
9	Steering Wheel	2	42	Positioner	1
10	Snap Ring	8	43	Nut	1
11	Pin	2	44	Washer	1
12	Snap Ring	10	45	Spacer	2
13	Bush	2	46	Release Lever	1
14	Leg	2	47	Screw	1
15	Leg	1	49	Screw	3
16	Bush	1	50	Spring Washer	3
17	Pin	2	51	Pin	1
18	Washer	2	53	Roller	1
19	Nut	2	54	Bush	2
20	Washer	6	55	Handle Seat	1
21	Ball Bearing	8	56	Pin	2
22	Front Wheel	2	57	Screw	2
23	Wheel Axle	2	60	Screw	1
24	Roller	4	61	Screw	4
25	Bush	2	62	Washer	4
26	Washer	4	63	Spring Socket	1
27	Spring Washer	2	64	Spring	1
28	screw	2	65	Pin	1
29	Bush	1	66	Ball	1
31	Ball Bearing	1			
32	Spacer	1			
33	Spacer	1			



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101	Screw	1	134	Screw	1
102	Washer	1	135	Seal Ring	1
103	Pump Piston	1	136	Screw	1
104	Guide Ring	1	137	Screw	1
105	Y-Ring	1	138	Plate	1
106	Washer	1	139	Spring	1
107	Snap Ring	1	140	Release Indicator	1
108	Scraper Ring	2	141	O-Ring	1
109	O-Ring	2	142	Spring	1
110	Y-Ring	1	143	Valve Insert	1
111	Pump Cylinder	1	144	O-Ring	8
112	O-Ring	1	145	Ball	2
113	Spring Guide	1	146	Release Valve	2
114	Spring	1	147	Spring	2
115	Hi-pressure Piston	1	148	Seal Ring	2
116	O-Ring	1	149	Screw	2
117	Valve Insert	1	150	Snap Ring	1
118	Cylinder Bush	1	151	Y-Ring	1
119	O-Ring	1	152	O-Ring	1
120	O-Ring	1	153	Retaining O-Ring	1
121	Snap Ring	1	154	Piston	1
122	Split Ring	2	155	Piston Rod	1
123	Rubber Sleeve	1	156	Seal Ring	1
124	Pendulum Arm	1	157	Cylinder Nut	1
125	Screw	2			
126	O-Ring	1			
127	Screw	1			
128	Spring	1			
129	Ball Seat	1			
130	Pump Housing	1			
131	O-Ring	1			
132	Screw	1			
133	Cylinder	1			

