Operating Instructions Parts List



Hand Pallet Truck

Note: Operator MUST read and understand this operating instructions before use this Hand Pallet Truck.

Thank you for using our pallet truck. Your pallet truck is made of high quality steel and is designed for the horizontal lifting and transport of loads on a pallet or standardized containers on a level, fixed base. For your safety and correct operation, please carefully read this instruction before using it.

NOTE: All of the information reported herein is based on data available at the moment of printing. We reserves the right to modify our own products at any moment without notice and incurring in any sanction. So, it is suggested to always verify possible updates.

1. GENERAL SPECIFICATIONS

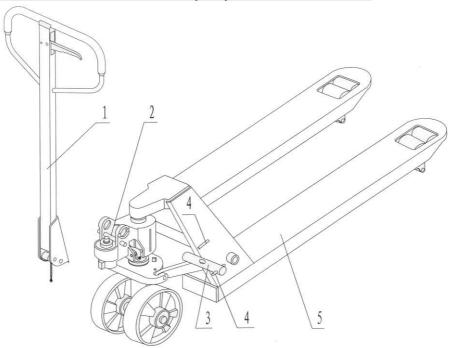
Capacity	(kg)	2000	2000	2500	2500	3000	3000
Max. Fork Height	(mm)		200(or 190)				
Min. Fork Height	(mm)		85(or 75)				
Fork Length	(mm)	1150	1220	1150	1220	1150	1220
Width Overall Forks	(mm)	m) 450 / 520 / 540 / 685					
Individual Fork Width	h (mm) 160						
Load Wheel Diameter (mm) Ø 82x70(or Ø 74x70) Nylon, Polyurethane					ne		
Steering Wheel Diameter	Ø 200(or Ø 180) Nylon, Polyurethane, Rubber			bber			

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

2. TO ATTACH DRAW-BAR TO PUMP UNIT

If you have purchased a wooden box of pallet truck, some assembly is required. Certainly, you need some tools, a hammer, a pliers, a spanner, etc; and some parts, one axle with hole (105), two elastic pins (106)(**Note one is in the axle (105)**), these parts are putted in a plastic bag, which is putted into the draw-bar.

NOTE: The number of draw-bar and pump should be the same.



1. Draw-bar 2. Pin 3. Axle with hole 4. Elastic pin 5. Fork frame Fig. 1

When attaching the handle, you had better squat just behind the pallet truck. Then you:

2.1 Insert the draw-bar onto the pump piston (303), then use a hammer to insert the axle with hole (105) into the hydraulic pump and draw-bar **from the right to left.** (See fig. 2).



Fig. 2

2.2 Let control handle(117 or 120G) to the '**LOWER**' position, then pass the adjusting nut(104), adjusting bolt(103) and chain(102) through the hole of axle(105) with your hand (See fig. 3).

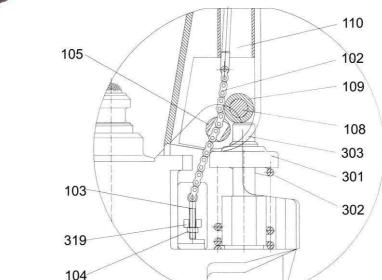


Fig. 3

- 2.3 Press the draw-bar (110, 110B or 111G) down, take away the pin(#2) (See Fig. 1).
- **2.4** Let the control handle (117 or 120G) on '**RAISE**' position, then raise the lever plate (319) with the pin (#2) and insert the adjusting bolt(103) into the front slot of lever plate (319), note to keep the adjusting nut (104) on the under side of the lever plate.
- **2.5** Use a hammer to tap another elastic pin (106) into the axle with hole (105). The draw-bar is now assembled to the pump.

3. TO ADJUST RELEASE DEVICE

On the draw-bar of this pallet truck, you can find the control handle(117 or 120G) which can be regulated in three positions :

Raise -handle down

Drive position -handle in center position

Lower -handle up, the lever moves back the drive position when released.

If however they have been changed, you can adjust according to following step:

3.1 If the forks elevate while pumping in the DRIVE position, turn the adjusting nut (104) on the

- adjusting bolt(103) or screw(318) clockwise until pumping action does not raise the forks and the **DRIVE** position functions properly.
- **3.2** If the forks descend while pumping in the **DRIVE** position, turn the nut(104) or screw(318) counter-clockwise until the forks do not lower.
- **3.3** If the forks do not descent when the control handle (117 or 120G) is in the **LOWER** position, turn the nut(104) or screw (318) clockwise until raising the control handle(117 or 120G) lowers the forks. Then check the **DRIVE** position according to item 3.1 and 3.2 to be sure the nut (104) and screw(318) is in the proper position.
- 3.4 If the forks do not elevate while pumping in the RAISE position, turn the nut (104) or screw (318) counter-clockwise until the forks elevate while pumping in the RAISE position. Then check the LOWER and DRIVE position according to item 3.1, 3.2 and item 3.3.

4. MAINTENANCE

The pallet truck is largely maintenance-free.

4.1 OIL

Please check the oil level every six months. The oil can be hydraulic oil: ISO VG32, its viscosity should be 30cSt at 40^{0} C, total volume is about 0.4lt.

4.2 TO BANISH THE AIR

The air may come into the hydraulic oil because of transportation or pump in upset position. It can cause that the forks do not elevate while pumping in the **RAISE** position. The air can been removed in the following way: let the control handle (117 or 120G) on the **LOWER** position, then move the draw-bar up and down for several times.

4.3 DAILY CHECK AND MAINTENANCE

Daily check of the pallet truck can limit wear as much as possible. Special attention should be paid to the wheels, the axles, as thread, rags, etc. It may block the wheels. The forks should be unloaded and lowered in the lowest position when the job is over.

4.4 LUBRICATION

All bearings and shafts are provided with long-life grease at the factory. You only need provide with long-life grease at monthly intervals or after each time the truck is cleaned thoroughly to the lubrication points.

5 GUIDE TO SAFETY OPERATION

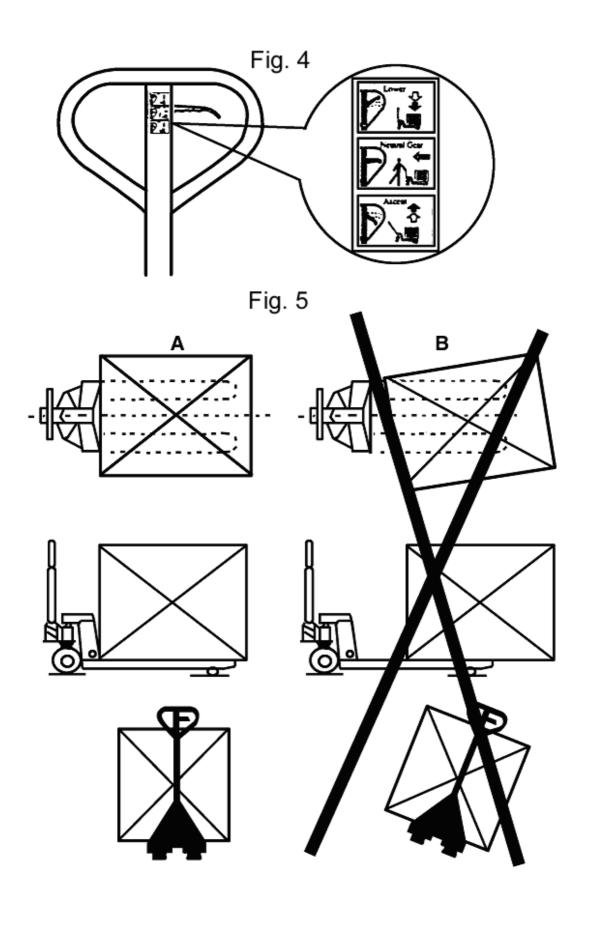
- 5.1 Operator should read all warning signs and instructions here and on the pallet truck before using this truck.
- 5.2 Do not use on a slopping ground.
- 5.3 Do not operate a pallet truck unless you are familiar with it and have been trained or authorized to do so.
- 5.4 Do not operate a pallet truck unless you have checked its condition. Give special attention to the wheels or rollers, the draw-bar unit, the fork unit, the lever plate, etc. .
- 5.5 To pull the truck, always move the control handle into the drive position. This makes the draw-bar easier to move and depressurizes the pump section of the hydraulics. This preserves the hydraulic seals and the valve components. A long service life can be expected.
- 5.6 Do not take up any people on the pallet truck.
- 5.7 The operator had better take on gloves for labor protecting.
- 5.8 When the goods have been transported, all people should be away from the forks for 600mm.
- 5.9 Do not load goods like fig. 5/B.
- 5.10 Do not load over maximum capacity.

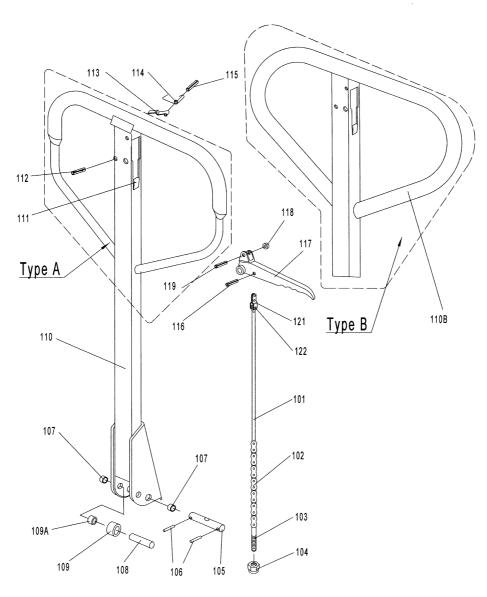
5.11 At others special condition or place, the operator should be carefully to operate the pallet truck.

6. TROUBLES SHOOTING

No	Trouble	Clause	Fixing Methods
1		,	-Pour in the oil.
	not be up the		
	max. height.		
		-Without hydraulic oil.	-Fill in the oil.
		-The oil has impurities.	-Change the oil.
2	not be lifted	The nut (104) is too high, keep the	-Adjust the nut(104) or screw (318)
	up.	pumping valve open.	(see item 3.4)
		-Air come into the hydraulic oil.	Banish the air.(see item 4.2)
			-Replace the piston rod (328) or
		deformed resulting from partial loading	pump (322).
		slanting to one side or over-loading.	
			-Keeping the fork in the lowest
3		for long time with piston rod bared to	position if not using, and pay more
	not be	arise in rusting and jamming of the	attention to lubricate the rod.
	descended.	rod.	A -1' - 1 (11 1 (404) (040)
			Adjust the nut (104) or screw (318)
_	Laste	is not in correct position.	(see item 3.3)
4	Leaks	-Sealing parts worn or damaged.	Replace with the new one.
			-Replace with the new one.
		•	Replace with new oil.
		release valve to be unable to close	
5	The fork	tight.	Inspect and replace the waste
3	descends	-Some parts of hydraulic system is cracked or bored.	parts.
		-Air come into the oil.	-Banish the air. (See item 4.2)
		-Sealing parts worn or damaged.	-Replace with the new one.
	worked.	The adjusting nut (104) or screw (318)	
	workeu.	is not in the correct position.	(318). (See item 3.2)
		is not in the correct position.	(010). (OCC IICITI 0.2)

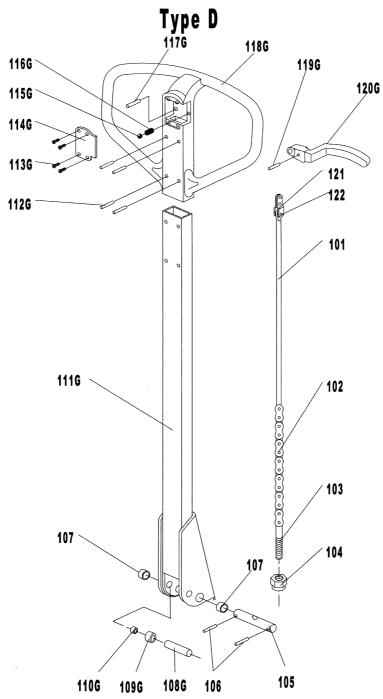
NOTE: DO NOT ATTEMP TO REPAIR THE PALLET TRUCK UNLESS YOU ARE TRAINED AND AUTHORIZED TO DO SO.





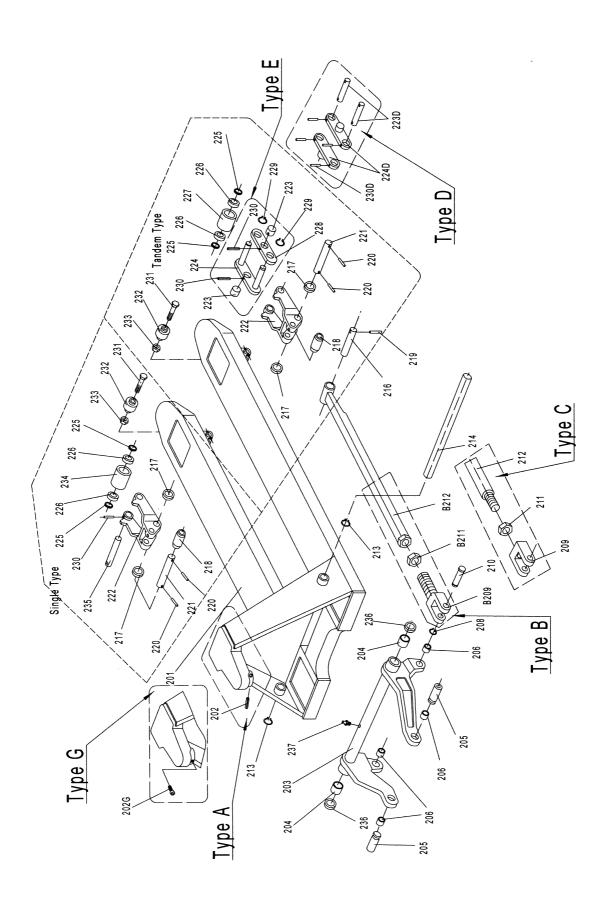
LIST of DRAW-BAR

	LIST OF DRAW-BAK						
No.	Description	Qty.	Remark				
101	Release Rod	1					
102	Chain	1					
103	Adjusting Bolt	1					
104	Adjusting Nut	1					
105	Axle with Hole	1					
106	Elastic Pin	2					
107	Bushing	2					
108	Roller Pin	1					
109	Pressure Roller	1					
109A	Bushing	1					
110	Draw-bar	1	For Type A				
110B	Draw-bar	1	For Type B				
111	Stop Rubber	1					
112	Elastic Pin	1					
113	Blade Spring	1					
114	Spring	1					
115	Elastic Pin	1					
116	Elastic Pin	1					
117	Control Handle	1					
118	Roller	1					
119	Elastic Pin	1					
120							
121	Pull Board	1					
122	Pin	1					



LIST OF DRAW-BAR for TYPE D

	LIST OF DIVAM-DAIL OF LIFE D								
No.	Description	Qty.	Remark	No.	Description	Qty.	Remark		
101	Release Rod	1		113G	Screw	4			
102	Chain	1		114G	Cover	1			
103	Adjusting Bolt	1		115G	Ball	1			
104	Adjusting Nut	1		116G	Spring	1	For Type D		
105	Axle with Hole	1		117G	Pin	1	For Type D		
106	Elastic Pin	2		118G	Handle	1			
107	Bushing	2		119G	Pin	1			
108G	Roller Pin	1		120G	Controlling Handle	1			
109G	Pressure Roller	1		121	Pull Board	1			
110G	Bushing	1	For Type D	122	Pin	1			
111G	Draw - bar	1							
112G	Pin	4							

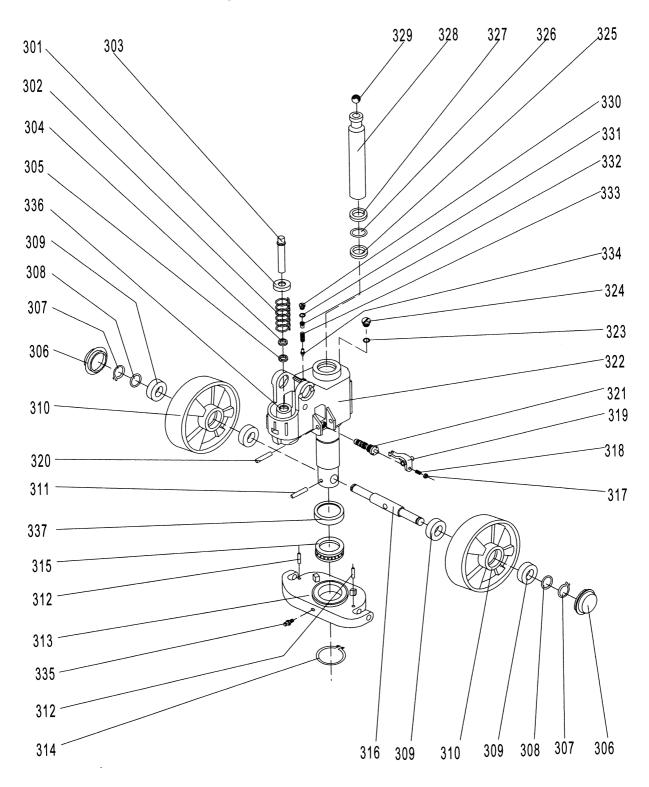


LIST OF FORK FRAME

No.	Description Description	Qty.	Remark
201	Fork Frame	1	
202	Elastic Pin	1	For Type A
202G	Bolt	1	For Type G
203	Rock - Arm	1	1 0. 1) 00
204	Bushing	2	
205	Shaft	2	
206	Bushing	2	
207	Bushing	2	
208	Retaining Ring	2	
210	Pin	2	
209	Joint	2	
211	Nut	2	For Type C
212	Pushing Rod	2	
B209	Joint	2	
B211	Nut	2	For Type B
B212	Pushing Rod	2	
213	Retaining Ring	2	
214	Shaft	1	
215	Bushing	4	
216	Shaft	2	
217	Intermediate Roller	4	
218	Extending Roller	2	
219	Elastic Pin	2	
220	Elastic Pin	4	
221	Shaft	2	
222	Frame of Roller	2	
223*	Shaft	4	
224*	Tandem Mounting with Pin	2	
228*	Tandem Mounting	2	For Type E
229*	Spring Washer	4	•
230	Elastic Pin	8 or 2	
223D*	Shaft for Roller	4	
224D*	Linking Plate	4	For Type D
230D	Elastic Pin	8 or 2	
225	Washer	8 or 4	
226	Bearing	8 or 4	
227*	Loading Roller	4	
231	Bolt	2	
232	Enter Roller	2	
233	Locking Nut	2	
234#	Loading Roller	2	
235#	Shaft for Roller	2	
236	Washer	2	
237	Grease Cup	1	
	* For double wheel: # For single w		

NOTE: *-- For double wheel; #-- For single wheel

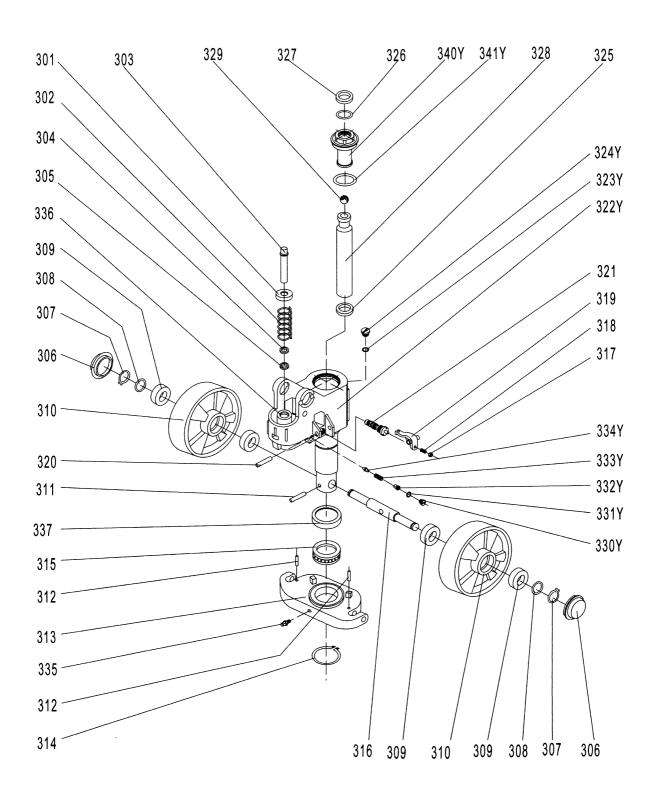
Type A pump



Type A hydraulic pump

No.	Description	Quantity	Remark
301	Spring Cap	1	
302	Spring	1	
303	Pump Piston	1	
304	Dust Ring	1	
305	Seal	1	
306	Dust Cover	2	
307	Locking Ring	2	
308	Washer	2	
309	Bearing	4	
310	Loading Wheel	2	
311	Elastic Pin	1	
312	Elastic Pin	2	
313	Thrust Plate	1	
314	Retaining Ring	1	
315	Bearing	1	
316	Shaft of loading Wheel	1	
317	Nut	1	
318	Screw	1	
319	Lever Plate	1	
320	Elastic Pin	1	
321	Valve Cartridge	1	
322	Pump Body	1	
323	Seal Washer	1	
324	Screw Plug	1	
325	Seal	1	
326	O – Ring	1	
327	Dust Ring	1	
328	Piston Rod	1	
329	Steel Ball	1	
330	Screw Plug	1	
331	O - Ring	1	
332	Bolt	1	
333	Spring	1	
334	Spindle of Safety Valve	1	
335	Grease Cup	1	
336	Cylinder	1	
337	Cover of Bearing	1	

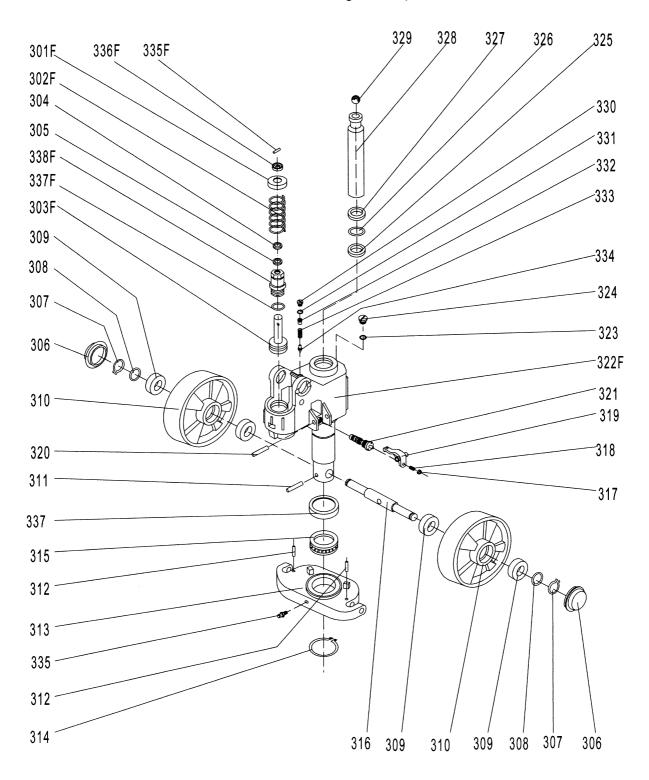
Type Y Pump



Type Y hydraulic pump

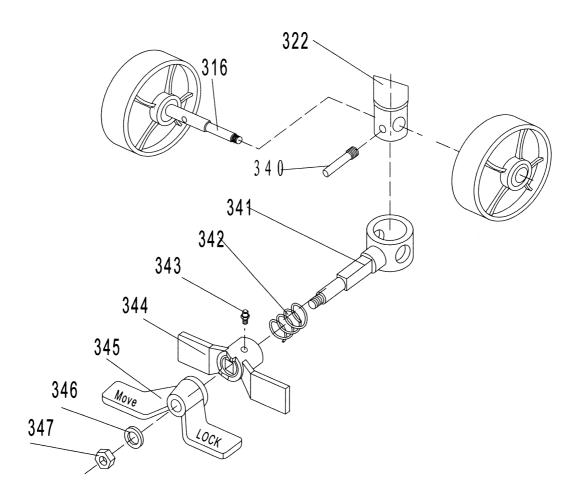
No.	Description	Qty.	Remark
301	Spring Cap	1	
302	Spring	1	
303	Pump Piston	1	
304	Dust Ring	1	
305	Seal	1	
306	Dust Cover	2	
307	Locking Ring	2	
308	Washer	2	
309	Bearing	4	
310	Loading Wheel	2	
311	Elastic Pin	1	
312	Elastic Pin	2	
313	Thrust Plate	1	
314	Retaining Ring	1	
315	Bearing	1	
316	Shaft of loading Wheel	1	
317	Nut	1	
318	Screw	1	
319	Lever Plate	1	
320	Elastic Pin	1	
321	Valve Cartridge	1	
322Y	Pump Body	1	0 1 4 - 14
323Y	Seal Washer	1	Only for Type Y
324Y	Screw Plug	1	Pump
325	Seal	1	
326	O – Ring	1	
327	Dust Ring	1	
328	Piston Rod	1	
329	Steel Ball	1	
330Y	Screw Plug	1	
331Y	O - Ring	1	
332Y	Bolt	1	Only for Type Y
333Y	Spring	1	Pump
334Y	Spindle of Safety Valve	1	
335	Grease Cup	1	
336	Cylinder	1	
337	Cover of Bearing	1	
340Y	Cover with Screw	1	Only for Type Y
341Y	O - Ring	1	Pump

Quick Lifting Pump



QUICK LIFTING HYDRAULIC PUMP

No	Description	Qty.	Remark
301F	Spring Cap	1	Only for Oviolal Lifting
302F	Spring	1	Only for Quick Lifting
303F	Pump Piston for Quick Lifting	1	- Pump
304	Dust Ring	1	
305	Seal	1	
306	Dust Cover	2	
307	Spring Washer	2	
308	Washer	2	
309	Bearing	4	
310	Loading Wheel	2	
311	Elastic Pin	1	
312	Elastic Pin	2	
313	Thrust Plate	1	
314	Retaining Ring	1	
315	Bearing	1	
316	Shaft of Loading Wheel	1	
317	Nut	1	
318	Screw	1	
319	Lever Plate	1	
320	Elastic Pin	1	
321	Valve Cartridge	1	
322F	Pump for Quick Lifting	1	for Quick Lifting Pump
323	Seal Washer	1	
324	Screw Plug	1	
325	Seal	1	
326	O - Ring	1	
327	Dust Ring	1	
328	Piston Rod	1	
329	Steel Ball	1	
330	Screw Plug	1	
331	O - Ring	1	
332	Bolt	1	
333	Spring	1	
334	Spindle of Safety Valve	1	
335	Grease Cup	1	
337	Cover of Bearing	1	
335F	Pin	1	
336F	Cap of Pin	1	Only for Quick Lifting
337F	O - Ring	1	Pump
338F	Pump Cylinder	1	



No.	Description	Qty.	No.	Description	Qty.
316	Shaft of Steering Wheel	1	343	Oil - Holder	1
322	Pump Body	1	344	Brake Plate	. 1
340	Pin	1	345	Pedal	1
341	Holding Sleeve	1	346	Washer	1
342	Spring	1	347	Nut	1

NOTE: The foot brake is a additional part, it may not fixed to your pallet truck. If you need it, you should extra order it.