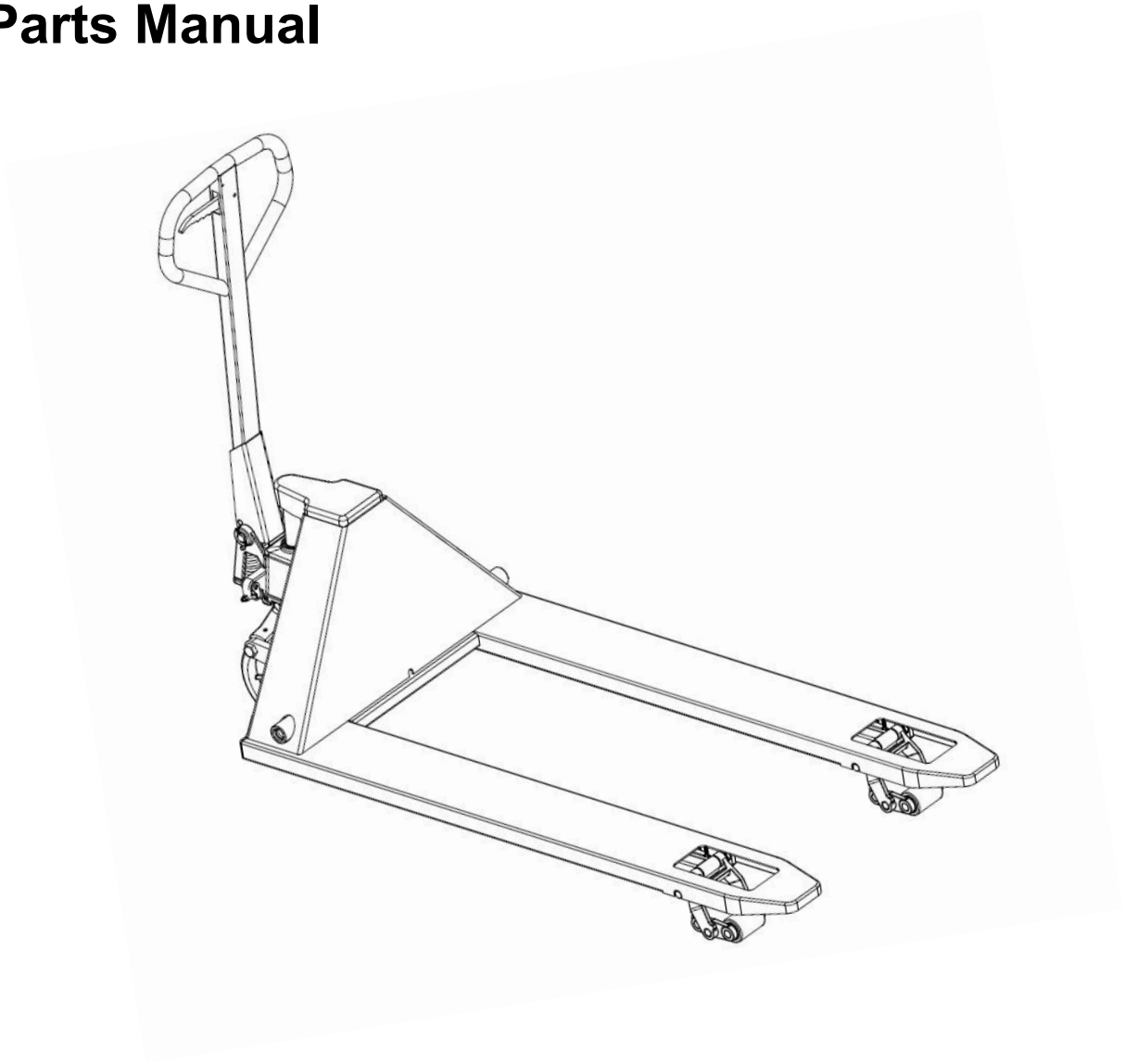
Operation Instructions

Parts Manual



Low Profile Hand Pallet Truck

WH-20L-51-H

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

It is highly recommended to the user of this stainless steel hand pallet truck to clean at least once a day and mainly after finishing using it, the stainless steel hand pallet truck with clear, non-salted water in order to take away all possible rests of corrosive products.

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ATTENTION:

Thank you for using our pallet trucks. The 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 liability in any sanctions. So, it is suggested to always verify possible updates and changes.

1. **The waste packages should be sorted and put into solid dustbins according to the materials and be collected disposal by local special environment protection bureau. To avoid pollution, it's forbidden to throw away the wastes randomly.**

2. **To avoid leaking during the use of the products, the user should prepare some absorbable materials (scraps of wooden or dry duster cloth) to absorb the leaking oil in time. To avoid second pollution to the environment, the used absorbable materials should be handed in to special departments in terms of local authorities.**



WARNING

1. It is prohibited to operate the hydraulic transport vehicle before receiving necessary training, becoming fully familiar with it, and obtaining authorization to operate it.

2. Before operation, pay attention to checking the vehicle, especially the condition of the wheels, handle components, forks, and swing rods.

3. Do not use this transport vehicle on muddy or uneven ground.

4. Do not place any part of your body near the mechanical lifting components of this vehicle, on the loaded goods, or under the forks.

5. It is prohibited to carry passengers.

6. It is best for operators to wear protective gloves for protection.

7. Do not use this vehicle to handle loose or unbound goods.

8. Do not overload.

When handling goods, please pay attention to placing them in the center of the fork and do not place them at the tail of the fork.

10. Only when the weight of the goods is evenly distributed on the forks can this vehicle be used to its maximum load capacity.

11. Please ensure that the length of the fork is greater than or equal to the length of the pallet.

When not in use, please lower the fork to the lowest height.

13. In some special situations or locations, operators should be cautious and operate with caution.

GENERAL SPECIFICATIONS

Model number		WH-20L-51-H
Capacity	(kg)	2000
Maximum. Fork Height	(mm)	141
Minimum. Fork Height	(mm)	51
Fork Length	(mm)	1150/1220
Width Overall Forks	(mm)	550/685
Individual Fork Width	(mm)	160
Double Load Wheel size	(mm)	Ø 50x70 Nylon or PU
Single Load Wheel size	(mm)	Ø50x93 Nylon or PU
Steering Wheel Diameter	(mm)	Ø180x50 Nylon or PU
Self-weight	(kg)	69/72.5

Materials and specifications are subject to change without notice.

ATTACHING 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 (item 228), two elastic pins (item 229)(**Note one is in the axle (item 228)**, 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.

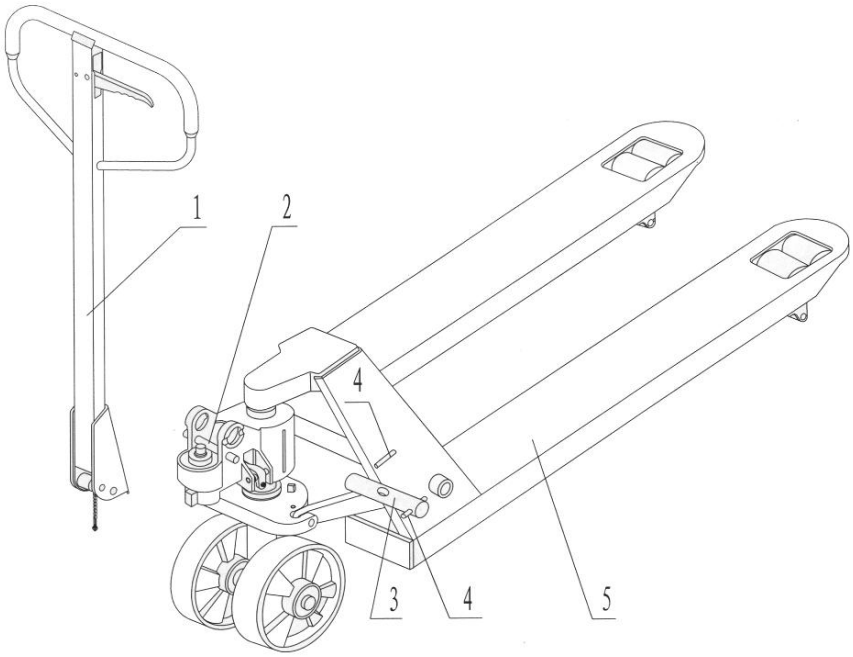


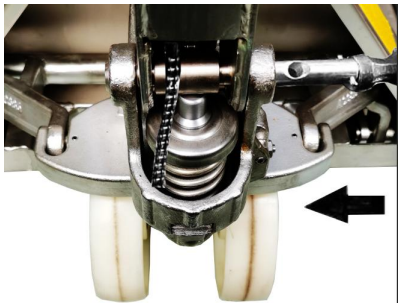
Fig. 1

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

Caution: When installing the handle, you had better squat just behind the pallet truck. Then you can install the handle as the following steps:

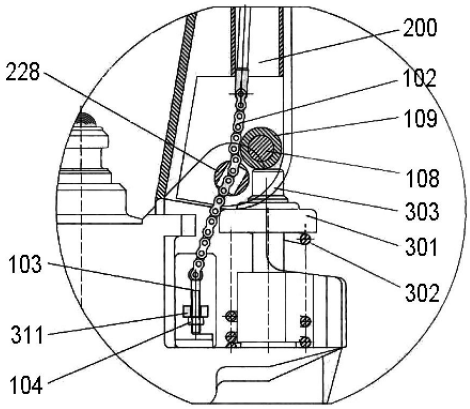
1 Insert the draw-bar onto the pump piston (item 226)**,** then use a hammer to insert the axle with hole (item 228) into the hydraulic pump and draw-bar **from the right to left.** (See fig. 2).

Fig. 2



2 Let control handle(117) to the '**LOWER**' position, then pass the adjusting nut(104), adjusting bolt(103) and chain(102) through the hole of axle(228) with your hand (See fig. 3).

Fig. 3



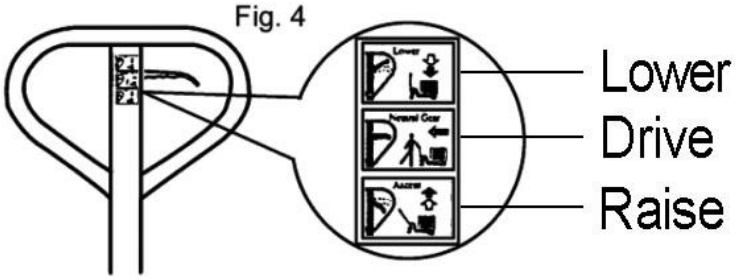
2.3 Press the draw-bar (200) down, take away the pin(#2) (See Fig. 1).
2.4 Let the control handle (117) on '**RAISE**' position, then raise the lever plate (311) with the pin (#2) and insert the adjusting bolt(103) into the front slot of lever plate (311), note to keep the adjusting nut (104) on the under side of the lever plate.
2.5 Use a hammer to tap another elastic pin (229) into the axle with hole (228).
The draw-bar is now assembled to the pump.

3. ADJUSTING RELEASE DEVICE

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

Raise -handle down
Drive -handle in center position
Lower -handle up, the lever moves back the drive position when released.

Fig. 4



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(308) clock wise 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(308) counter-clockwise until the forks do not lower.

3.3 If the forks do not descent when the control handle (117) is in the **LOWER** position, turn the nut(104) or screw (308) clockwise until raising the control handle(117) lowers the forks. Then check the **DRIVE** position according to item 3.1 and 3.2 to be sure the nut (104) and screw(308) 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 (308) 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: L-HV46, its viscosity should be -20℃~+40℃, total volume is about 0.3L.

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) 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	The forks can not be lifted up the maximum height.	-The hydraulic oil is not enough.	-Pour in the oil.
2	The forks can not be lifted up.	Without hydraulic oil. The oil has impurities. The nut (104) is too high, keep the pumping valve open. Air come into the hydraulic oil.	Fill in the oil. Change the oil. Adjust the nut(104) or screw (308) (see item 3.4) Banish the air.(see item 4.2)
3	The forks can not be lowered.	- The piston rod(315) or pump (314) is deformed resulting from partial loading slanting to one side or over-loading. - The fork was kept in the high position for long time with piston rod bared to arise in rusting and jamming of the rod. - The adjusting nut (104) or screw (308) is not in correct position.	- Replace the piston rod (315) or pump (314). - Keeping the fork in the lowest position if not using, and pay more attention to lubricate the rod. - Adjust the nut (104) or screw (308) (see item 3.3)
4	Leaks	Sealing parts worn or damaged. Some part cracked or worn into small.	Replace with the new one. Replace with the new one.
5	The forks lowered without the release valve working.	The impurities in the oil cause the release valve to be unable to close tight. Some parts of hydraulic system is cracked or bored. Air come into the oil. Sealing parts worn or damaged. The adjusting nut (104) or screw (308) is not in the correct position.	Replace with new oil. Inspect and replace the waste parts. Banish the air. (See item 4.2) Replace with the new one. Adjusting the nut (104) or screw (308). (See item 3.2)

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

Fig. 5

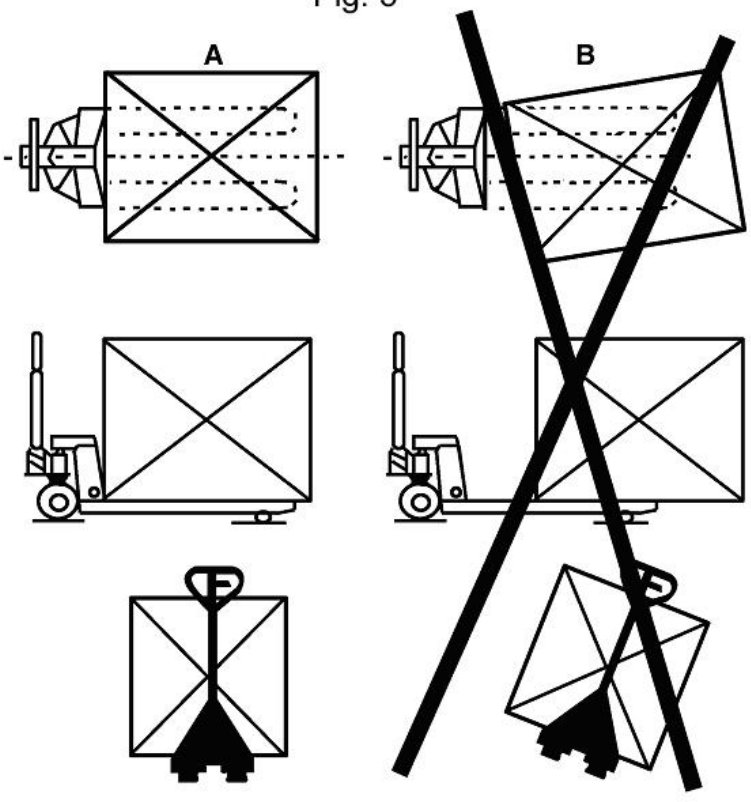
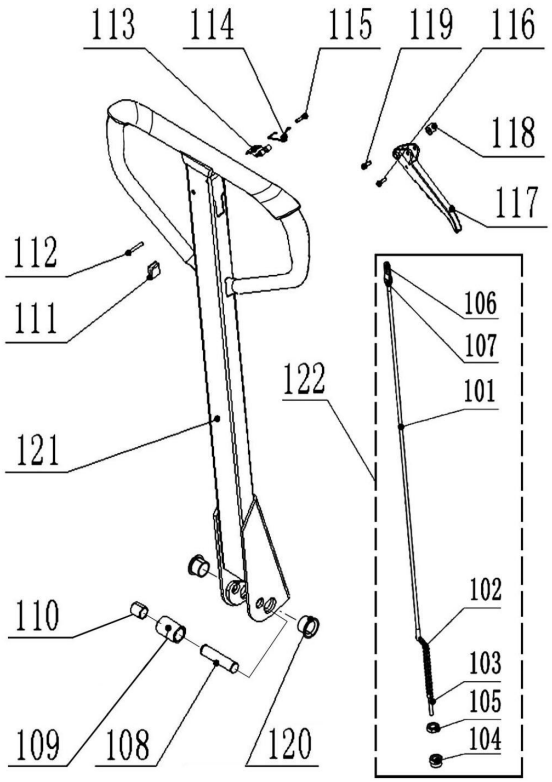
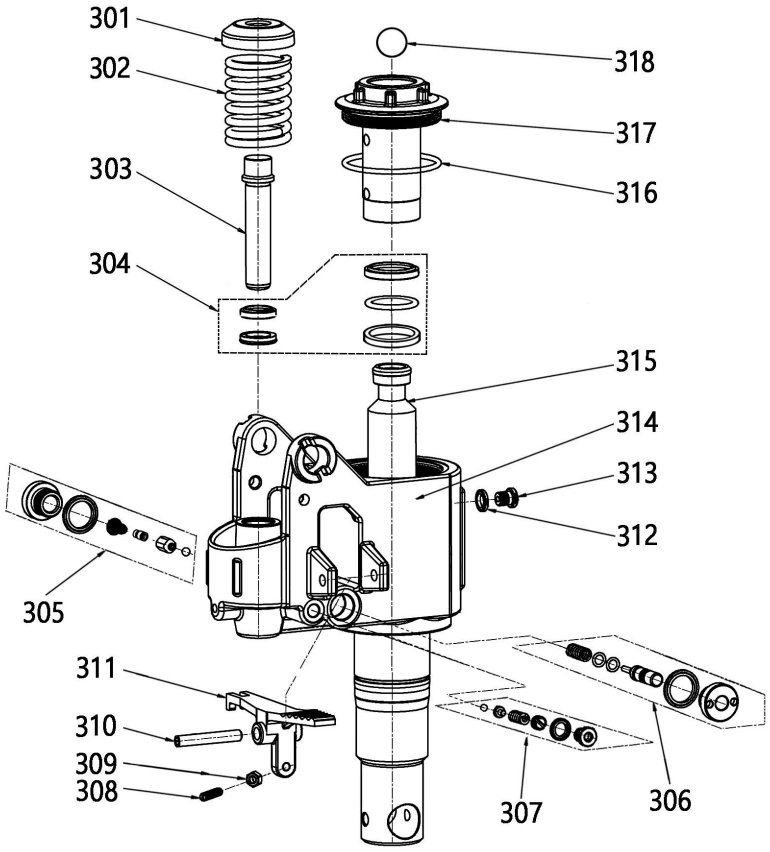


Fig.6 Details for Handle



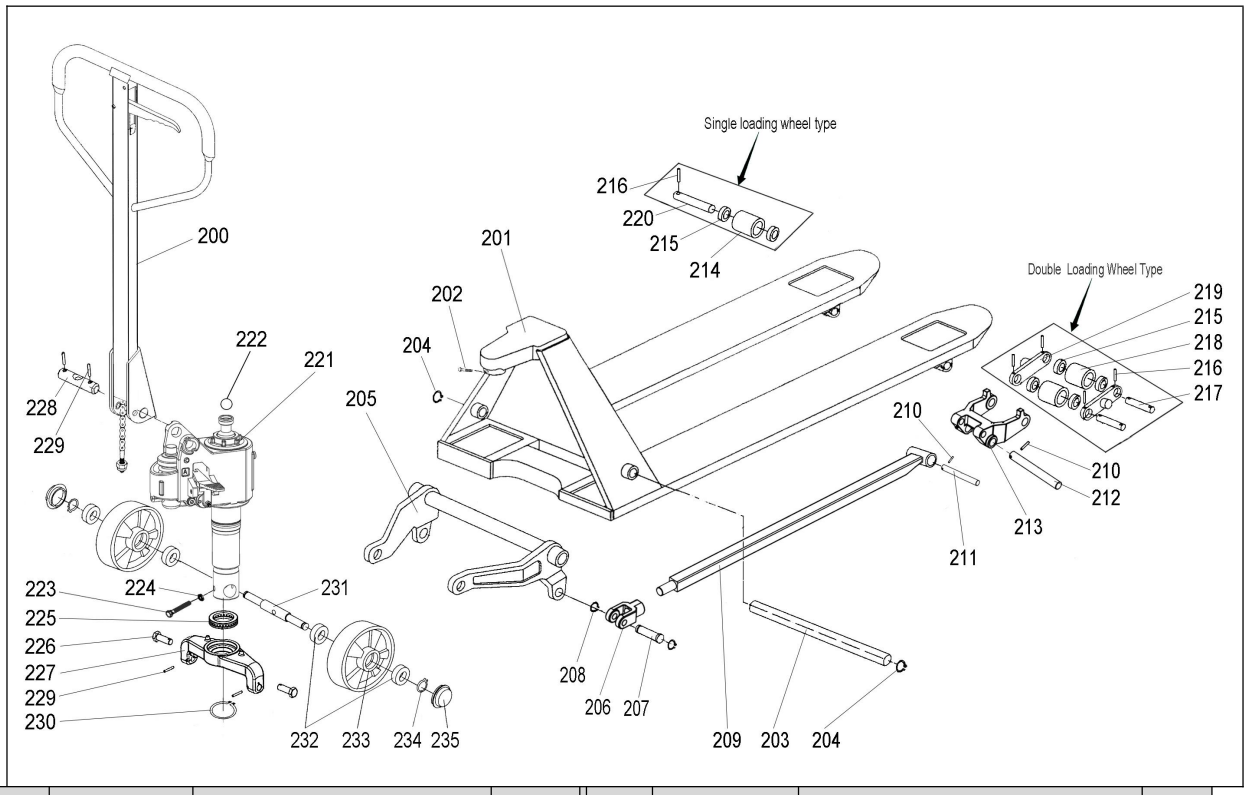
No.	P/N	Description	Specification	Qty	Remark
101	32302119	Long connecting rod		1	
102	28080102	Chain		1	
103	28080103	Adjustable bolt		1	
104	28080104	Adjustable nut		1	
105	28080105	Caulking nut		1	
106	32302120	Connecting plate		1	
107	28080107	Rivet		1	
108	28080108	Roller pin	Ø10*85	1	
109~110	28080109	Pinch roller with bushing	Ø24*17*36	1	
111	32302126	Rubber blanket		1	
112	20901006	Spring pin	Ø6*30	1	
113	32302124	Blade Spring		1	
114	32302125	Torsional spring		1	
115	20901005	Spring pin	Ø4*30	1	
116	17010313	Spring pin	Ø4*17	1	
117	32301126	The finger handle		1	
118	17010312	Idler wheel		1	
119	32302122	Spring pin	Ø4*13	1	
120	32302114	Bushing	Ø22*12	2	
121	32301106	Handle body		1	
122	32301111	Rod & chain assy.(Inc.101~107)		1	
101,106/107	28080123	Long connecting rod		1	
102~105	32301125	Chain assy.		1	

Fig.7 Details for pump



Item No.	P/N	Description	Specification	Qty	Remark
301	32302112	Spring cover		1	
302	32302111	Big spring	Ø48*5*85	1	
303	32302113	Small piston rod	Ø18*96	1	
304	32301110	Pump seal kits Ø31.5	Ø31.5	1	
305	32301107	Check valve assy.		1	
306	32301109	Relief valve assy.		1	
307	32301108	Safety valve assy.		1	
308	32302102	Regulate screw M6*25	M6*25	1	
309	32302103	Nut M6	M6	1	
310	32302104	Spring pin Ø8*50	Ø8*50	1	
311	32302101	Lever plate		1	
312	28080312	Combination washer Ø10	Ø10	1	
313	28080313	Plug M10*1	M10*1	1	
314	28080314	Pump Base		1	
315	28080315	Piston rod Ø31.5*278.5	Ø31.5*278.5	1	
316	28080316	O-Ring Ø65*2.65	Ø65*2.65	1	
317	28080317	Cover f pump		1	
318	28080318	Steel ball	Ø19.05	1	

Fig.8 Parts details for chassis



No.	P/N	Description	Qty	No.	P/N	Description	Qty
200	28080200	Handle assy.	1	217	28080217	Pin shaft Ø17*94	4
201	28080201	Chassis and forks (685*1220)	1	218	28080218	Double load wheel (nylon Ø50*70)	4
	28080201-1	Chassis and forks (550*1150)	1		28080218-1	Double load wheel (PU Ø50*70)	4
202	28080202	Screw M6*12	1	219	28080219	Three consecutive plate	4
203	28080203	Long axis 685	1	220	28080220	Shaft for single load wheel	2
	28080203-1	Long axis 550	1	221	28080221	BF Pump assy.	1
204	20802002	Circlip Ø25	2	222	28080318	Steel ball	1
205	28080205	Rocker arm 685	1	223	20101609	Bolt M8*60	1
	28080205-1	Rocker arm 550	1	224	20402001	Caulking nut M8	1
206	28080206	The push rod fork	2	225	20503003	Bearing 51111	1
207	28080207	Connecting pin Ø16*50	2	226	28080226	Pin shaft Ø16*48	2
208	20801001	Check ring Ø16	4	227	28080227	Thrust strip	1
209	28080209	Push rod for fork 1150	2	228	28080228	Handle perforated pin	1
	28080209-1	Push rod for fork 1200	2	229	20901001	Spring pin Ø5*35	4
210	20901004	Spring pin Ø5*25	6	230	20801014	Circlip Ø55	1
211	28080211	Shaft Ø16*85	2	231	28080231	Shaft for steering wheel	1
212	28080212	Pin shaft Ø16*158	2	232	20501016	Bearing 6204-2RS	4
213	28080213	Wheel fork	2	233	32002004	Steering wheel (Nylon Ø180*50)	2
214	28080221	Nylon Single load wheel Ø50*93	2		32002001	Steering wheel (PU Ø180*50)	2
	28080221-1	PU Single load wheel Ø50*93	2		28080233	Steering wheel (PU+Nylon Ø180*50)	2
215	28080215	Bearing 6003-2RS	8/4	234	20801003	Circlip Ø20	2
216	20901003	Spring pin Ø5*30	20/16	235	28080235	Dust cap	2