



OPERATING INSTRUCTIONS & PARTS LIST

ECO I-55 STAINLESS

VERSION	JULY 2014
MODEL	ECO I-55 STAINLESS STEEL HAND PALLET TRUCK
APPLICABLE PRODUCTS	ECO I-55 STAINLESS

NOTE: Owner and operator **MUST** read and understand the operating instructions before using the unit.

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 unit with clear, non-salted water in order to take away all possible corrosive residue.



WARNING

Please carefully read the following instructions before use of Stainless Hand Pallet Truck.

A. Please select different material of Stainless Hand Pallet Truck according to different surroundings:

1. 304 Stainless Hand Pallet Truck works in the place of fresh water, vapor, weak corrosive environments such as medical instrument, supermarket, scientific research, hospital, etc.

2. 316 Stainless Hand Pallet Truck works in stronger corrosion environment such as common chemical industries, printing and dyeing enterprises, paper manufacturer, food industries, transport enterprises and coastal indoor enterprises.

But it is not allowed to touch saline, salting, acid and alkali. Careless touching should promptly be rinsed by fresh water.

3. Stainless Hand Pallet Truck is not recommended to work in the following environments such as salt works, cold storage, seafood, food processor and strong corrosive chemicals, galvanize, chrome, nickel enterprises. Rinse with fresh water timely once use. Rust should be wiped clean immediately.

B. Stainless Hand Pallet Trucks cannot touch seawater, saline solution, salt and other chlorine-containing media, acids and alkalis for long periods. If contact is made, rinse with fresh water immediately.

It's suggested to wash with fresh water after use each time to prevent rust.

C. If a Stainless Hand Pallet Trucks surface breaks, it will rust by collision or cut. Rust must be wiped clean immediately to prevent the rust from spreading.

D. Stainless Hand Pallet Truck surface can not touch with iron such as iron pallet, iron box etc.

E. After use, lower the forks of Stainless Hand Pallet Truck to the lowest position to avoid piston rod rust, and put it indoors.

Thank you for using our pallet trucks. 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 reserve 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. GENERAL SPECIFICATIONS

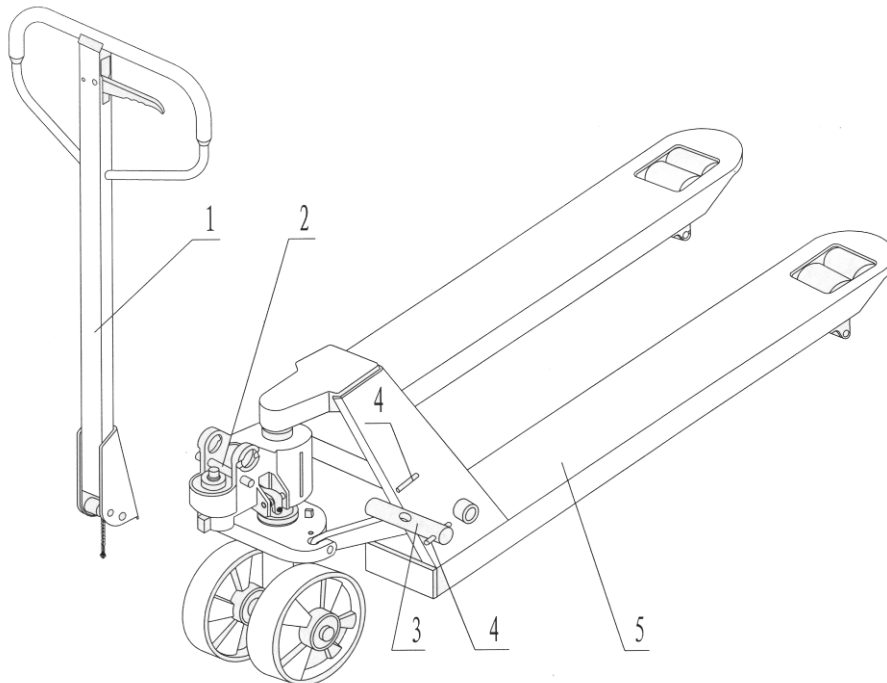
Capacity	2000kg / 4400lbs
Max Fork Height	200mm / 7.9"
Min Fork Height	75mm / 2.9"
Fork Length	1220mm / 48"
Width Overall Fork	520 or 685mm / 20.5 or 27"
Individual Fork Width	160mm / 6.3"
Load Wheel Diameter	Ø 74x70mm / 2.9x2.7" Nylon
Steering Wheel Diameter	Ø 180mm / 7" Nylon

Materials and specifications are subject to change without notice.

2. 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 (105S), two elastic pins (106S) (**Note one is in the axle (105S)**), 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 (105S) into the hydraulic pump and draw-bar **from the right to left**. (See fig. 2).



Fig. 2

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

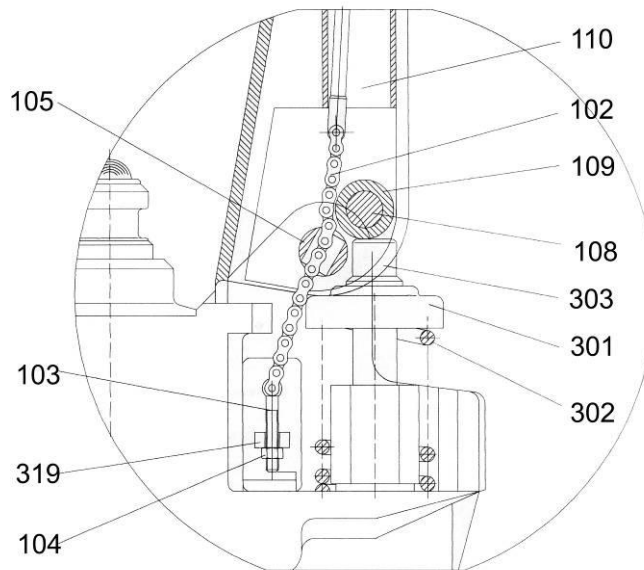


Fig. 3

2.3 Press the draw-bar (110S) down, take away the pin(#2) (See Fig. 1).

2.4 Let the control handle (117S) on '**RAISE**' position, then raise the lever plate (319S) with the pin (#2) and insert the adjusting bolt(103S) into the front slot of lever plate (319S), note to keep the adjusting nut (104S) on the under side of the lever plate.

2.5 Use a hammer to tap another elastic pin (106S) into the axle with hole (105S). 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 (117S) 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.

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 (104S) on the adjusting bolt (103S) or screw (318S) 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 (104S) or screw(318S) counter-clockwise until the forks do not lower.
- 3.3 If the forks do not descend when the control handle (117S) is in the **LOWER** position, turn the nut (104S) or screw (318S) clockwise until raising the control handle (117S) lowers the forks. Then check the **DRIVE** position according to item 3.1 and 3.2 to be sure the nut (104S) and screw (318S) is in the proper position.
- 3.4 If the forks do not elevate while pumping in the **RAISE** position, turn the nut (104S) or screw (318S) 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^o 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 be removed in the following way: let the control handle (117S) 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 (104S) is too high, keep the pumping valve open. Air got into the hydraulic oil.	Fill in the oil. Change the oil. Adjust the nut(104S) or screw (318S) (see item 3.4) Banish the air.(see item 4.2)
3	The forks can not be lowered.	The piston rod (328) or pump (322S) 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 (104S) or screw (318S) is not in correct position.	Replace the piston rod (328) or pump (322S). Keeping the fork in the lowest position if not using, and pay more attention to lubricate the rod. Adjust the nut (104S) or screw (318S) (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 comes into the oil. Sealing parts worn or damaged. The adjusting nut (104S) or screw (318S) 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 (104S) or screw (318S). (See item 3.2)

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

Fig. 4

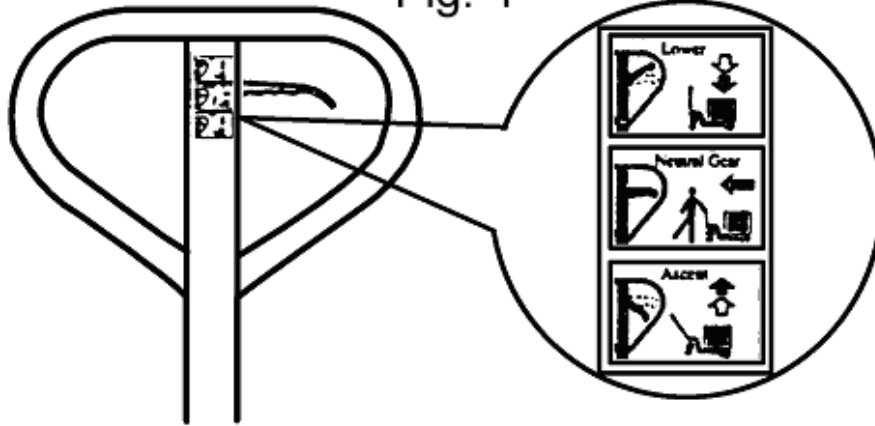
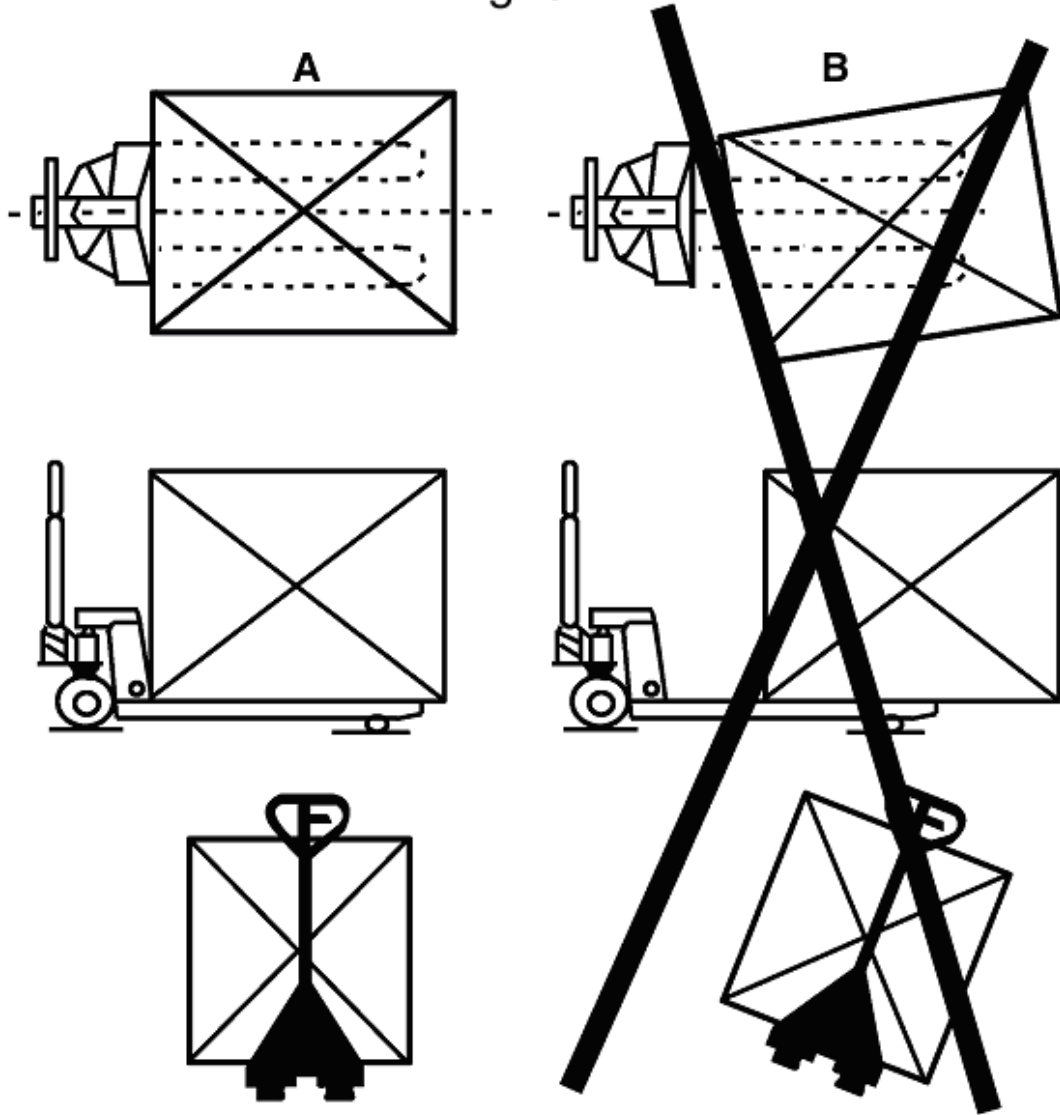
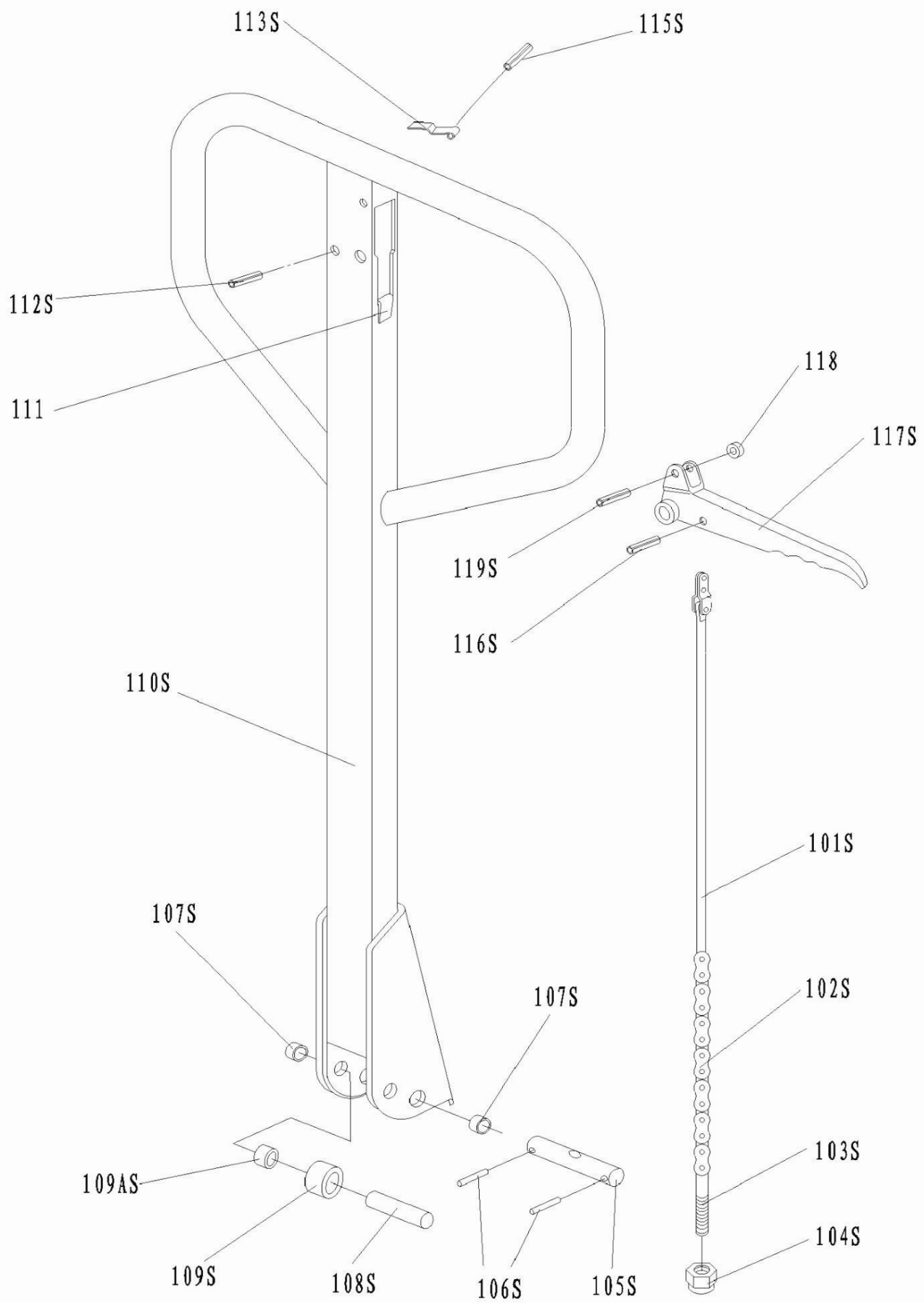


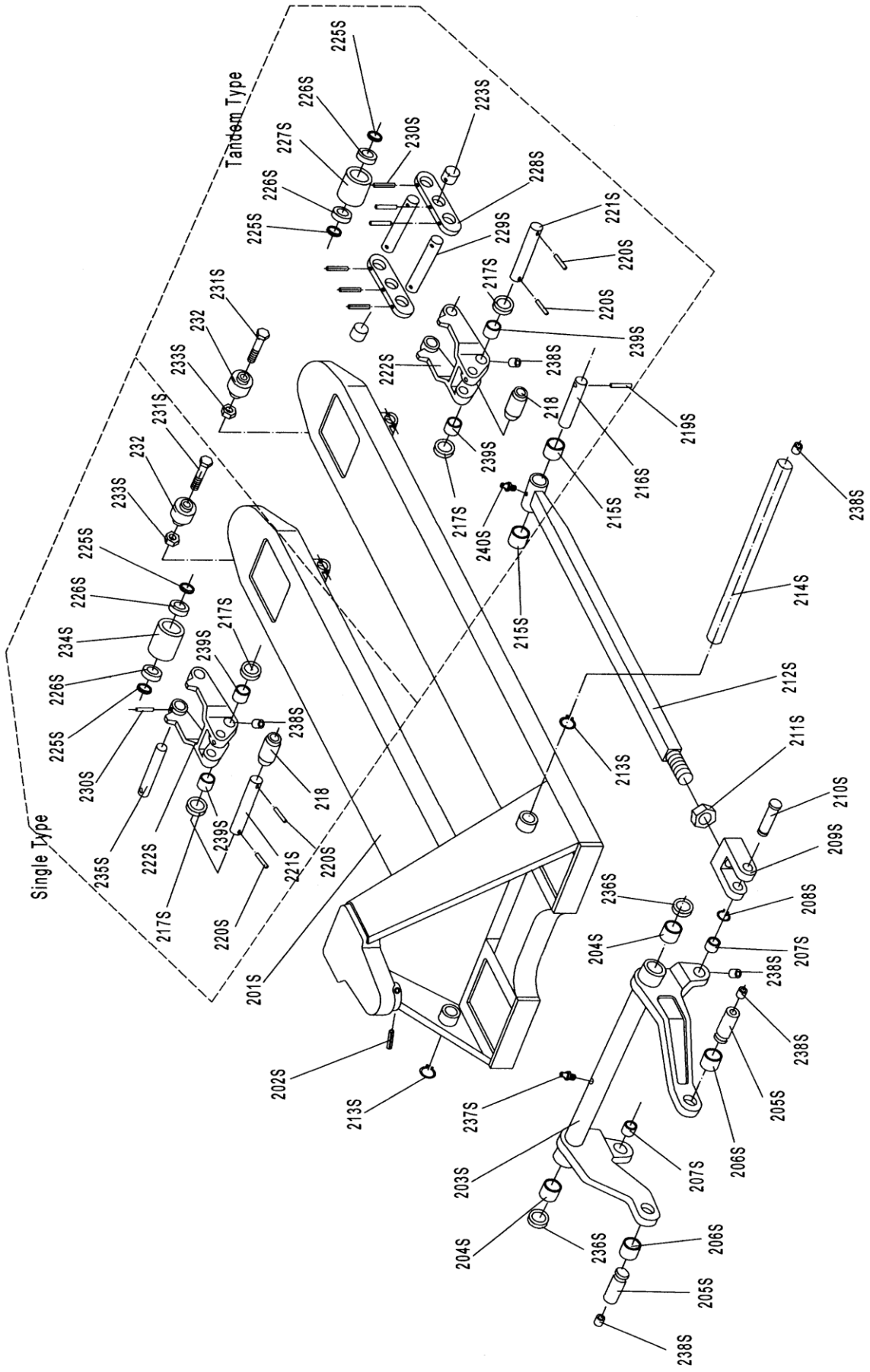
Fig. 5





LIST of DRAW-BAR

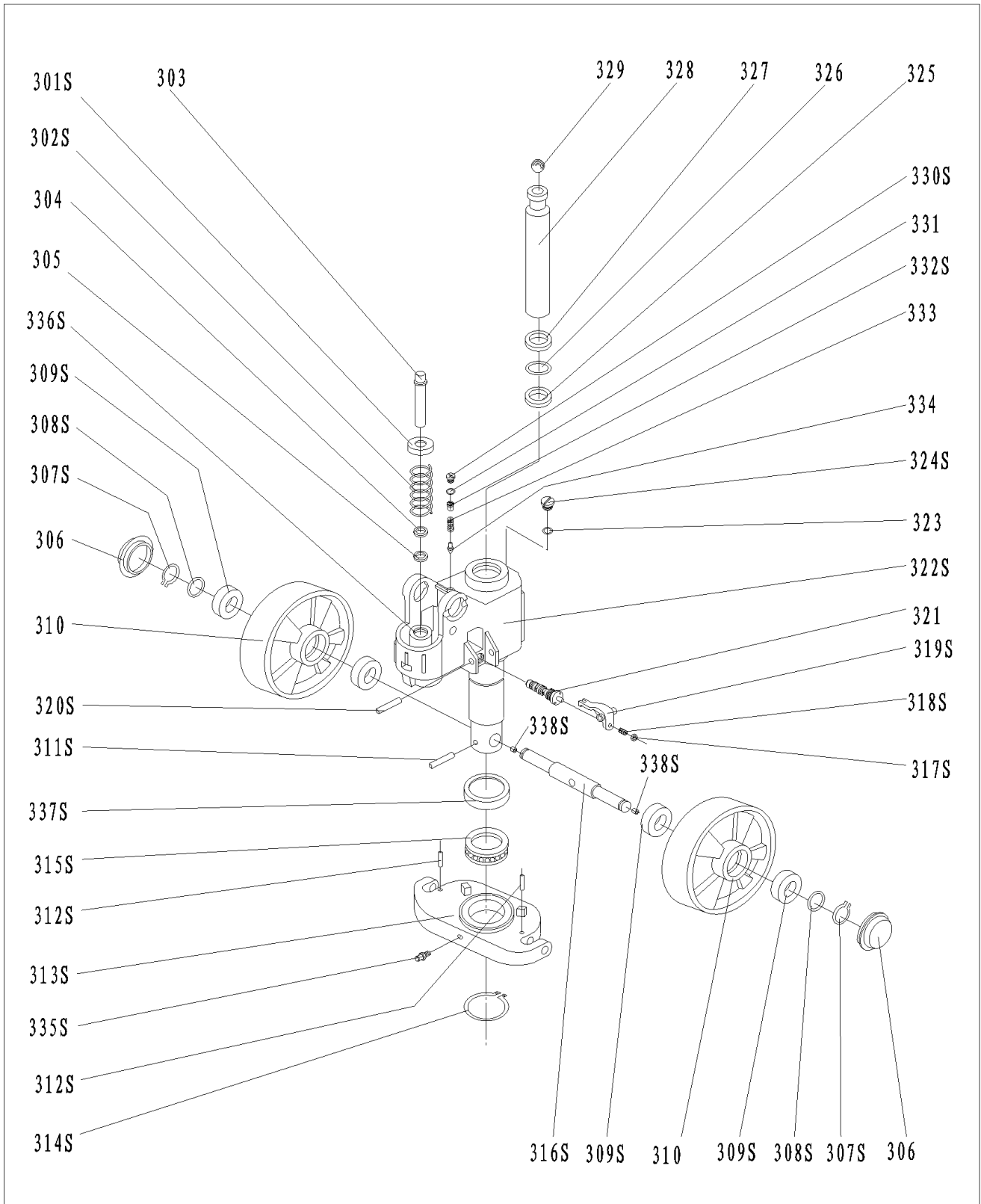
No.	Mobile No.	Description	Qty.	Material Make-Up	
				Type 304	Type 316
101S	18E101SS	Release Rod	1	304	304
102S	18E102SS	Chain	1	304	304
103S	18E103SS	Adjusting Bolt	1	304	304
104S	18E104SS	Adjusting Nut	1	304	304
105S	18E105SS	Axle with Hole	1	304	316
106S	18E106SS	Elastic Pin	2	304	304
107S	18E107SS	Bushing	2	Nylon	Nylon
108S	18E108SS	Roller Pin	1	304	316
109S	18E109SS	Pressure Roller	1	304	316
109AS	18E109ASS	Bushing	1	304	304
110S	18E110SS	Draw-bar	1	304	316
111	18E111	Stop Rubber	1	Rubber	Rubber
112S	18E112SS	Elastic Pin	1	304	304
113S	18E113SS	Blade Spring	1	3Cr13	3Cr13
115S	18E115SS	Elastic Pin	1	304	304
116S	18E116SS	Elastic Pin	1	304	304
117S	18E117SS	Control Handle	1	304	304
118	18E118	Roller	1	Plastic	Plastic
119S	18E119SS	Elastic Pin	1	304	304



LIST of FORK FRAME

No.	Mobile No.	Description	Qty.	Material Make-Up	
				Type 304	Type 316
201S	18E201SS	Fork Frame	1	304	316
202S	18E202SS	Elastic Pin	1	304	304
203S	18E203SS	Rock - Arm	1	304	304
204S	18E204SS	Bushing	2	304	Nylon
205S	18E205SS	Shaft	2	304	316
206S	18E206SS	Bushing	2	Nylon	Nylon
207S	18E207SS	Bushing	2	Nylon	Nylon
208S	18E208SS	Retaining Ring	2	304	304
209S	18E209SS	Joint	2	304	304
210S	18E210SS	Pin	2	304	316
211S	18E211SS	Nut	2	304	304
212S	18E212SS	Pushing Rod	2	304	316
213S	18E213SS	Retaining Ring	2	304	304
214S	18E214SS	Shaft (540)	1	304	316
214S	18E214SS	Shaft (685)	1	304	316
215S	18E215SS	Bushing	4	Nylon	Nylon
216S	18E216SS	Shaft	2	304	316
217S	18E217SS	Intermediate Roller	4	Plastic	Plastic
218	18E218	Extending Roller	2	Plastic	Plastic
219S	18E219SS	Elastic Pin	2	304	304
220S	18E220SS	Elastic Pin	4	304	304
221S	18E221SS	Shaft	2	304	316
222S	18E222SS	Frame of Roller	2	304	304
223S*	18E223SS	Shaft	4	304	316
225S	18E225SS	Washer	8 or 4	Nylon	Nylon
226S	18E226SS	Bearing	8 or 4	304	304
227S*	18E227NT-7	Tandem Load Roller	4	Nylon	Nylon
228S-N*	18E228SS-N	Link plate	4	304	304
229S-N*	18E229SS-N	Shaft for roller	4	304	316
230S	18E230SS	Elastic Pin	12 or 2	304	304
231S	18E231SS	Bolt	2	304	304
232	18E232	Enter Roller	2	Plastic	Plastic
233S	18E233SS	Locking Nut	2	304	304
234S#	18E234N-7	Load Roller	2	Nylon	Nylon
235S#	18E235SS	Shaft for Roller	2	304	316
236S	18E236SS	Washer	2	Nylon	Nylon
237S	18E237SS	Grease Cup	1	304	304
238S	18E238SS	Grease Cup	8	304	304
239S	18E239SS	Bushing	4	Nylon	Nylon
240S	18E240SS	Grease Cup	2	304	304

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



LIST of HYDRAULIC PUMP

No.	Mobile No.	Description	Qty.	Material Make-Up	
				Type 304	Type 316
301S	18E301SS	Spring Cap	1	304	304
302S	18E302SS	Spring	1	304	304
303	18E303	Pump Piston	1	Steel	304
304	18E304	Dust Ring	1	PU	PU
305	18E305	Seal	1	PU	PU
306	18E306	Dust Cover	2	Plastic	Plastic
307S	18E307SS	Locking Ring	2	304	304
308S	18E308SS	Washer	2	Nylon	Nylon
309S	18E309SS	Bearing	4	304	304
310	18E310N-1	Loading Wheel	2	Nylon	Nylon
311S	18E311SS	Elastic Pin	1	304	304
312S	18E312SS	Elastic Pin	2	304	304
313S	18E313SS	Thrust Plate	1	304	304
314S	18E314SS	Retaining Ring	1	304	304
314S	18E314SS	Bearing	1	304	304
316S	18E316SS	Shaft of loading Wheel	1	304	316
317S	18E317SS	Nut	1	304	304
318S	18E318SS	Screw	1	304	304
319S	18E319SS	Lever Plate	1	304	304
320S	18E320SS	Elastic Pin	1	304	304
321	18E321	Valve Cartridge	1	Kits	Kits
322S	18E322SS	Pump Body	1	304	304
323	18E323Y	Seal Washer	1	Rubber	Rubber
324S	18E324SS	Screw Plug	1	304	304
325	18E325	Seal	1	PU	PU
326	18E326	O – Ring	1	Rubber	Rubber
327	18E327	Dust Ring	1	PU	PU
328	18E328	Piston Rod	1	Steel	304
329	18E329	Steel Ball	1	304	304
330S	18E330SSR	Screw Plug	1	304	304
331	18E331Y	O - Ring	1	Rubber	Rubber
332S	18E332SS	Bolt	1	304	304
333	18E333Y	Spring	1	Steel	Steel
334	18E334Y	Spindle of Safety Valve	1	Steel	Steel
335S	18E335SS	Grease Cup	1	304	304
336S	18E336SS	Cylinder	1	304	316
337S	18E337SS	Cover of Bearing	1	304	304
338S	18E338SS	Grease Cup	2	304	304



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