Operating Instructions Parts List



Hand Stacker

1.0T/1.6M

Note: Owner and operator MUST read and understand this operating instructions before use this hand stacker.

Date: March, 2012

Welcome to use our hand stacker. Your stacker is made of high quality steel and was designed to give a durable, reliable and easy to use product. For your safety and correct operation, please carefully read this instruction book and warnings on the stacker before using it.

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

1. STRUCTURAL DATA FORM

	TYPE I (Adjusted fork)	TYPE II (Fixed fork)		
Capacity	1000 kg			
Max. Fork Height	1600 mm			
Min. Fork Height	85 \pm 2mm			
Fork Length	900mm	1150 mm		
Size of fork	150x60mm	160x60mm		
Fork Width(outside)	330~740mm	550 mm		
Fork Width(inside)	30~440mm	230 mm		
Over Height	1980mm			
Over Width	775mm 715mm			

2. SAFETY GUIDANCE

- 2.1 Operator should read all warning signs and instructions here and on the stacker before using it.
- 2.2 Do not operate an hand stacker unless you are familiar with it and have been trained or authorized to do so.
- 2.3 Do not operate an hand stacker unless you have checked its condition. Give special attention to the wheels, the handle, the guide frame, the pilot wheel, the doorframe, etc.
- 2.4 Do not use on a slopping ground.
- 2.5 Do not take up any people on the forks.
- 2.6 The operator had better take on gloves for labor protecting.
- 2.7 When the goods have been transported or lifted, all people should be away form the forks for 600mm.
- 2.8 Do not load over maximum capacity.
- 2.9 The weight of goods should be distributed on the two forks, do not use only one fork. The center of gravity of goods should be in the center of two forks.
- 2.10 People forbid to stand under the forks.
- 2.11 Do not move the hand stacker when the goods are lifted to the height more than 300mm.
- 2.12 At other special condition or place, the operator should be carefully to operate the hand stacker.

3. MAINTENANCE

3.1 Hydraulic oil

Please check the oil level every six months. The oil can be hydraulic oil: **ISO VG32**, its viscosity should be 32cSt at 40°C, total volume is about 3.0lt.

3.2 Daily check and maintenance

It is necessary to check the hand stacker daily. Special attention should be paid to the wheels, the axles, as thread, rags, etc., it may block the wheels, the fork and the mast should be checked, too. The forks should be unloaded and lowered in the lowest position when the job is over.

3.3 Lubrication

Use motor oil or grease to lubricate all movable parts.

3.4 Remove the air

The air maybe enter the hydraulic pump during the transportation after the customer buys it. It will cause the piston rod to fail to keep up the raised height. The air can be removed in the following way: pull the control handle(F108) up and move handle(F110) up and down for several times.

4. TO ADJUST RELEASE DEVICE

On the draw-bar of this hand stacker, you can find the control handle (F108) which can be regulated in three positions:

LOWER = to lower the forks;

NEUTRAL = to move the load,

LIFT = to raise the fork.

These three positions have been pre-posited at the factory. If however they have been changed, you can adjust according to following step:

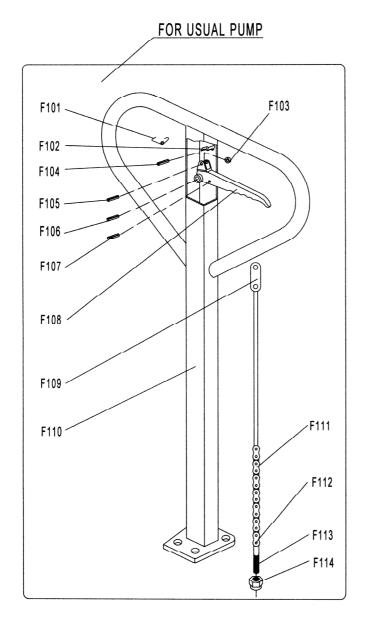
- 4.1 If the forks elevate while pumping in the **NEUTRAL** position, turn the adjusting nut (F114) on the adjusting bolt (F113) clockwise or turn the adjusting screw (F227) clockwise until pumping action does not raise the forks and the **NEUTRAL** position functions properly.
- 4.2 If the forks descend while pumping in the **NEUTRAL** position, turn the nut (F114) or the screw (F227) counter-clockwise until the forks do not lower.
- 4.3 If the forks do not descent when the control handle (F108) is in the **LOWER** position, turn the nut (F114) or the screw (F227) clockwise until raising the control handle (F108) lowers the forks. Then check the **NEUTRAL** position according to item 4.1 and 4.2 to be sure the nut (F114) and the screw (F227) is in the proper position.
- 4.4 If the forks do not elevate while pumping in the **LIFT** position, turn the nut (F114) or the screw (F227) counter-clockwise until the forks elevate while pumping in the **LIFT** position. Then

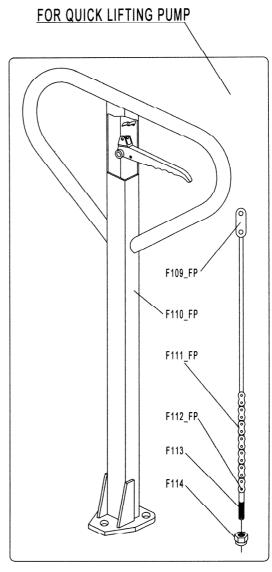
5. TROUBLES SHOOTING

No	Trouble	Clause	Fixing Methods
1	The forks cannot be	- The hydraulic oil is not enough.	- Pour in the oil.
	up the max. height.		
		- Without hydraulic oil.	- Fill in the oil.
		- The oil has impurities.	- Change the oil.
2	The forks can not	- The nut (F114) is too high or the	- Adjust the nut (F114) or the
	be lifted up.	screw (F227) is too close, keep the	screw (F227) (see item 4.4)
		pumping valve open.	
		- Air come into the hydraulic oil.	- Banish the air.(see item 3.4)
		- The piston rod(253) or pump	- Replace it.
		body(223) or the mast (F301G) is	
		deformed resulting from loading	
		slanting to one side or over-loading.	
3	The forks can not	- The fork was kept in the high	- Keeping the fork in the lowest
	be descended.	position for long time with piston rod	position if not using, and pay
		bared to arise in rusting and	more attention to lubricate the
		jamming of the rod.	rod.
		- The adjusting nut (F114) or the	- Adjust the nut (F114) or
		screw (F227) is not in the correct	the screw (F227). (see item
		position.	4.3)
		- The rollers (F318) are not lubricated.	- Lubricate its.
		- Sealing parts worn or damaged.	- Replace with the new one.
4	Leaks	- Some part cracked or worn into	- Replace with the new one.
7	Leaks	small.	- Replace with the new one.
		- The impurities in the oil cause the	- Replace with new oil.
		release valve to be unable to close	replace with new elli
		tight.	
5	The fork descends	- Some parts of hydraulic system is	- Inspect and replace the
	without the	cracked or bored.	waste parts.
	release valve	- Air come into the oil.	-Banish the air. (See item 3.4)
	worked.	- Sealing parts worn or damaged.	- Replace with the new one.
		- The adjusting nut (F114) or the	- Adjusting the nut (F114) or the
		screw (F227) is not in the correct	screw (F227). (See item 4.2)
		position.	·

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

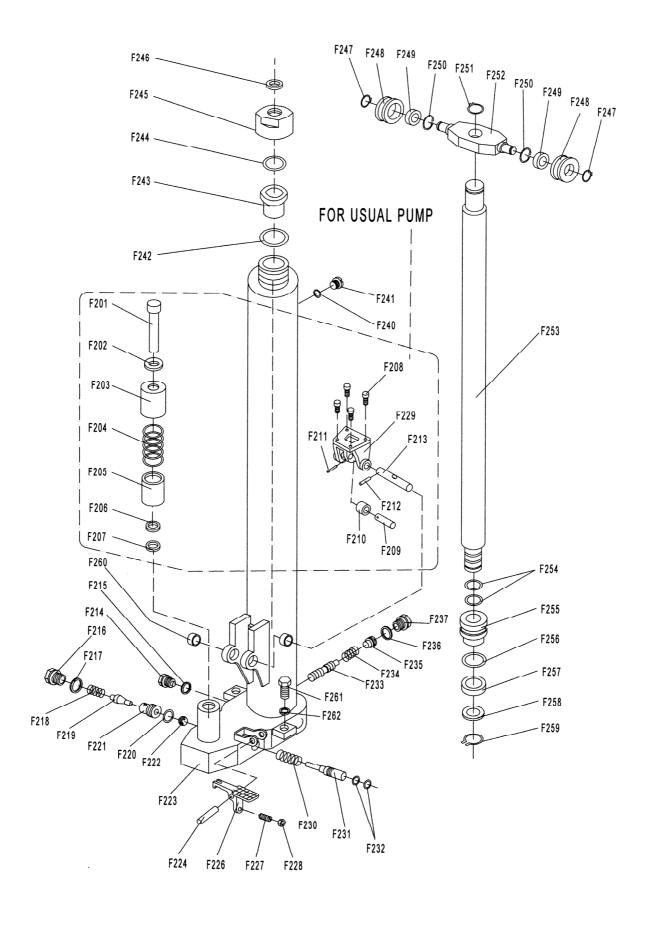
HANDLE



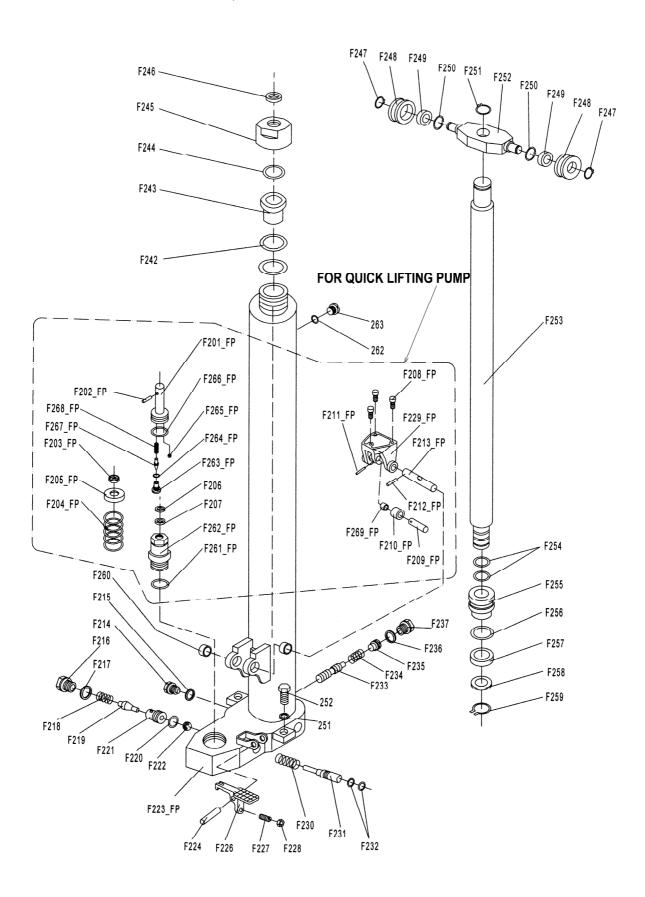


No.	Description	Qty.	Remark	No.	Description	Qty.	Remark
F101	Spring	1		F109	Pull Rod	1	
F102	Blade Spring	1		F110	Handle	1	Only for
F103	Roller	1		F111	Chain	1	USUAL PUMP
F104	Elastic Pin	1		F112	Pin	1	
F105	Elastic Pin	1		F109_FP	Pull Rod	1	For QUICK
F106	Elastic Pin	1		F110_FP	Handle	1	LIFTING PUMP
F107	Elastic Pin	1		F111_FP	Chain	1	and TYPE III
F108	Control Handle	1		F112_FP	Pin	1	PUMP
F113	Adjusting Bolt	1					
F114	Adjust Nut	1					

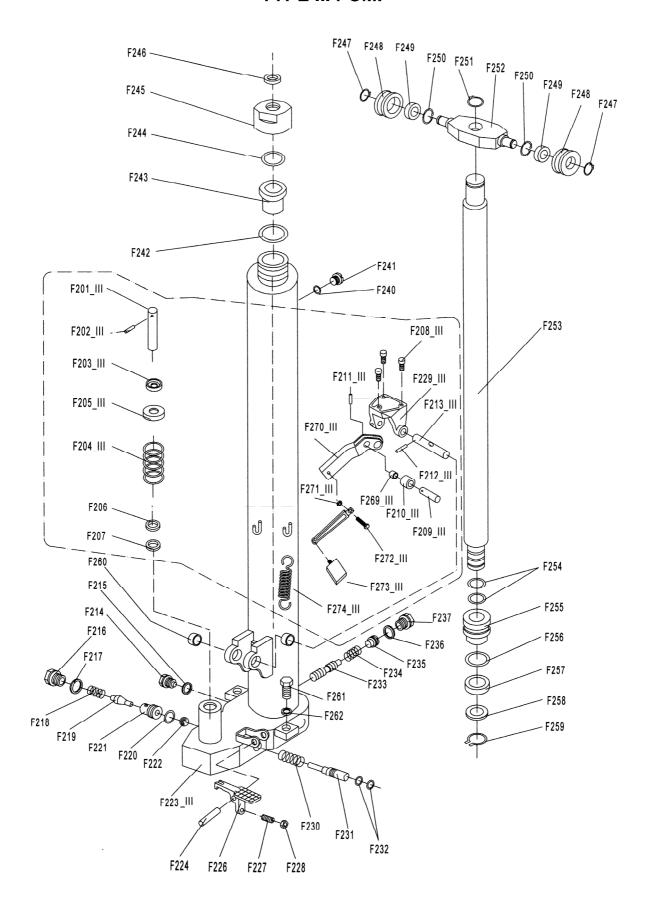
USUAL PUMP



QUICK LIFTING PUMP

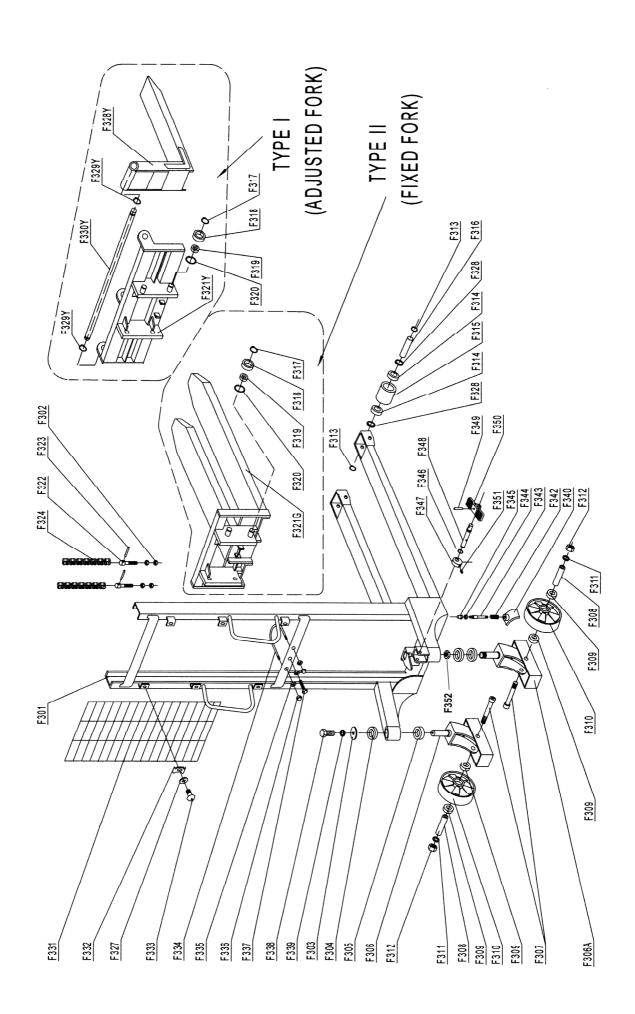


TYPE III PUMP



PUMP PART LIST

No.	Description	Qty.	Remark	No.	Description	Qty.	Remark
F201	Pump Piston Rod	1		F206	Dust Ring	1	
F202	Washer	1		F207	Seal	1	
F203	Upper Cap of Spring	1		F214	Bolt	1	
F204	Spring	1		F215	Seal Washer	1	
F205	Lower Cap of Spring	1		F216	Spring	1	
F208	Bolt	4	Only For	F217	Seal Washer	1	
F209	Shaft	1	USUAL	F218	Spring	1	
F210	Pressure Roller	1	PUMP	F219	Valve Spindle of Pump	1	
F211	Elastic Pin	1		F220	O-Ring	1	
F212	Elastic Pin	1		F221	Seat of Pump Valve	1	
F213	Axle with hole	1		F222	Steel Ball	1	
F223	Body of Pump	1		F224	Shaft	1	
F229	Bracket	1		F225	Locking Ring	1	
F201_FP	Pump Piston Rod	1		F226	Lever Plate	1	
F202_FP	Pin	1		F227	Screw	1	
F203_FP	Cap of Pin	1		F228	Nut	1	
F204_FP	Spring	1		F230	Spring	1	
F205_FP	Cap of Spring	1		F231	Release Valve Pin	1	
F208 FP	Bolt	3		F232	O-Ring	2	
F209_FP	Shaft	1		F233	Pin to Adjust Velocity	1	
F210 FP	Pressure Roller	1		F234	Spring	1	
F211 FP	Elastic Pin	1		F235	Adjust Screw	1	
F212 FP	Elastic Pin	1	O-1 F	F236	Seal Washer	1	
F213 FP	Axle with hole	1	Only For	F237	Bolt	1	
F223 FP	Body of Pump	1	Quick Lifting	F238	Bolt	2	
F229 FP	Bracket	1	Pump	F239	Elastic Washer	2	
F261 FP	O - Ring	1		F240	Seal Washer	1	
F262 FP	Pumping Cylinder	1		F241	Screw	1	
F263 FP	Screw	1		F242	Seal Washer	1	
F264 FP	O – Ring	1		F243	Sleeve	1	
F265 FP	Steel Ball	1		F244	O-Ring	1	
F266 FP	O – Ring	1		F245	Cover with Screw	1	
F267 FP	Valve Spindle	1		F246	Dust Ring	1	
F268 FP	Spring	1		F247	Locking Ring	2	
F269 FP	Bushing	1		F248	Roller for Chain	2	
F201_ III	Pump Piston Rod	1		F249	Bearing	2	
F202_III	Pin	1		F250	Locking Ring	2	
F203_III	Cap of Pin	1		F251	Locking Ring	1	
F204 III	Spring	1		F252	Holding Plate	1	
F205 III	Cap of Spring	1		F253	Lifting Piston Rod	1	
F208 III	Bolt	3		F254	O-Ring	2	
F209 III	Shaft	1		F255	Piston	1	
F210_III	Pressure Roller	1		F256	O-Ring	1	
F211 III	Elastic Pin	1	Only for	F257	Seal	1	
F212 III	Elastic Pin	1	TYPE III	F258	Washer	1	
F213 III	Axle with hole	1	PUMP	F259	Locking Ring	1	
F223 III	Body of Pump	1		F260	Bushing	2	
F229 III	Bracket	1				† -	
F269 III	Bushing	1				1	
F270_III	Lever of Pedal	1				<u> </u>	
F271_III	Nut	1					
F272 III	Bolt	1					
F273_III	Pedal	1				1	
F274 III		2				1	
F2/4_III	Spring	2				1	<u> </u>



Part List of Mast

No.	Description	Qty.	Remark
F301Y	Mast	1	For TYPE I (Adjusted Fork)
F301G	Mast	1	For TYPE II (Fixed Fork)
F302	Nut	4	,
F303	Cap	2	
F304	Bearing	2	
F305	Bearing	2	
F306	Frame of Wheel	1	
F306A	Frame of Wheel with Brake	1	
F307	Screw	2	
F308	Axle of Wheel	2	
F309	Bearing	4	
F310	Wheel	2	
F311	Elastic Washer	2	
F312	Nut	2	
F313	Locking Ring	2	
F314	Bearing	4	
F315	Loading Roller	2	
F316	Axle of Loading Roller	2	
F317	Locking Ring	4	^
F318	Roller	4	
F319	Bearing	4	
F320	Locking Ring	4	
F321G	Fork	2	For TYPE II (Fixed Fork)
F322	Bolt	2	
F323	Pin	2	
F324	Chain	2	
F325	Linking Chain	2	
F326	Plate of Chain	2	
F327	Locking Plate	2	
F321Y	Frame of Fork	1	
F328Y	Fork	2	For TYPE I (Adjusted Fork)
F329Y	Retaining Ring	2	Torrirer(Adjusted Fork)
F330Y	Long Axle	1	
F331	Reticulation	1	
F332	Washer	4	
F333	Screw	4	
F334	Hoop to Holding Pump	1	
F335	Nut	3	
F336	Nut	2	
F337	Bolt	1	
F338	Bolt	1	
F339	Elastic Washer	1	
F340	Brake Plate	1	
F341	Locking Ring	1	
F342	Spring	1	
F343	Bolt	1	
F344	Nut	1	
F345	Nut	1	
F346	Locking Ring	1	
F347	Cam	1	
F348	Pin	1	
F349	Elastic Pin	1	
F350	Footplate	1	
F351	Screw	1	
F352	Nut	1	