

Parts list for Standard

No.	Description	Qty	No.	Description	Qty	No.	Description	Qty
1	Handle Assembly	1	37	Bearing 6204	8	120	Valve Needle	1
2	Wheel Shaft	1	38	Tandem Loading Wheel	4	121	Valve Bushing	1
3	Screw M8x60	1	39	Spring Pin Φ5x30	2	122	Steel Ball	1
4	Washer	1	40	Wheel Shaft	2	123	Pump	1
5	Bearing	1	41	Washer	4	124	Washer Ring	2
6	Base	1	42	Bearing 6204	4	125	Bolt	1
7	Nipple	1	43	Single Loading Wheel	2	126	Pressure Plug	1
8	Snap Ring	1	44	Hex Bolts	2	127	Steel Ball	1
9	Spring Pin Φ5x30	2	45	Wheel	2	128	Spring Base	1
10	Bearing 6204	4	46	Nut	2	129	Spring	1
11	Steering Wheel	2	47	Fork	2	130	Spring Pin	1
12	Washer	1	48	Hex Nut	1	131	Oil Pin	1
13	Snap Ring	2	49	Rocker Arm	1	132	Oil Rod	1
14	Wheel Cap	2	50	Pump Assembly	1	133	O-Ring	1
15	Bushing	4	51	Nut	1	134	Plug	1
16	Base Pin	2	A	Single Loading Wheel	2	136	Bolt	1
17	Snap Ring	2	B	Tandem Loading Wheel	2	137	Hex Nut	1
18	Rod End	2	101	Back Spring	1	138	Control Shaft	1
19	Rod Shaft	2	102	Folding	1	139	Spring Pin Φ8x50	1
20	Bushing	2	103	Small Ball	1	140	Y-Ring 0	1
21	Screw Nut	2	104	Spring Pin Φ4*16	1	141	O-Ring	1
22	Push Rod	2	105	Spring Pin Φ6*30	1	142	Pump Cap	1
23	Rocker Shaft	1	106	Spring Pin Φ4*14	1	143	O-Ring	1
24	Spring Pin Φ6x35	1	107	Control lever	1	144	Dust Ring	1
25	Bushing	4	108	Long Rod Groups	1	145	Piston Rod	1
26	Wheel	2	109	Handle	1	146	Steel Ball Φ18	1
27	Spring Pin Φ5x30	2	110	Shaft	1	147	Plunger	1
28	Push Shaft	2	111	Spring Pin Φ4*30	1	148	Spring Cap	1
29	Wheel Bracket	2	112	Roller	1	149	Spring	1
30	Washer	8	113	Bushing	1	150	Dust Ring	1
31	Axle	2	114	Bushing	1	151	Y-Ring	1
32	Spring Pin Φ5x30	2	115	Spring Pin Φ5x40	2	152	Chain	1
33	Spring Pin Φ5x30	2	116	Shaft	1	153	Bolt	1
34	Balance Arm	2	117	Plug	1	154	Nut	1
35	Wheel Shaft	4	118	Washer Ring	2			
36	Washer	8	119	Spring	1			

Instruction Manual

Hydraulic Hand Pallet Truck



Caution: Please read and comprehend this operating manual and all of the warning signs on the truck before use hand pallet truck.

WARNING!

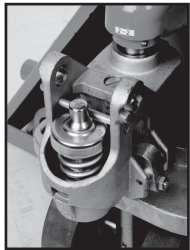
- Read and understand the entire operator's manual before using the pallet truck.
- Don't load pallet truck beyond rated capacity of 5,500 lbs. for the standard models and 6,600 lbs. for heavy-duty models.
- Secure load before transporting.
- Keep the load centered on the pallet.
- Don't operate loaded pallet truck on ramps or inclines.
- Always wear appropriate safety shoes.
- Never leave a loaded pallet truck unattended in the raised position; always lower load to the floor.

PALLET TRUCK ASSEMBLY

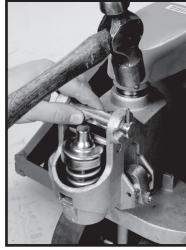
Note: Individual trucks are assembled and ready to use. Pallet trucks purchased in crate quantities (6 units to a crate) require some assembly.

Tools needed for assembly: hammer, flat screwdriver, 14mm wrench

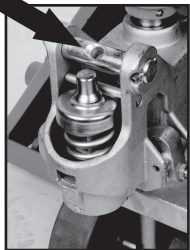
To attach handle assembly to the frame:



- 1.**
*** IMPORTANT - SAFETY ***
Verify that spring safety pin is in place. The pin should be well rested in the holes situated on each side of the pump housing. If the safety pin is not rested properly in one of the holes, put pressure on the spring using a "C" clamp pushing down on the pump stem. Once pressure is relieved on the pin, reinsert properly and remove clamp slowly.



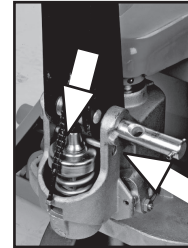
- 2.**
Insert handle pin into corresponding holes and using a hammer, drive in one spring pin on one side only.



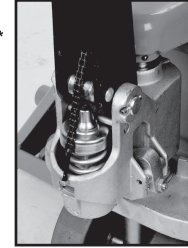
- 3.**
Insert handle pin without the handle and verify that the center hole is facing you.



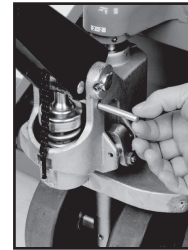
- 4.**
If handle pin's center hole is facing away from you, insert pin from other side.
*** IMPORTANT - FACT ***
The up/down lever's chain passes through this center hole. If left this way, the chain will have an "S" form and be under too much tension, making the up/down lever difficult to use accurately.



- 5.**
*** IM PORTANT - CHAIN***
Before this step, make sure to feed the chain on the outside of the piston stem roller (see yellow arrow). If left in its proper position, it will not be possible to insert the handle pin and chain, breakage may occur. Align handle holes with pump housing holes and push through handle pin (see red arrow)



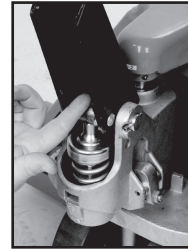
- 6.**
Make sure that handle pin is completely through the handle and resting on the other side.



- 7.**
Pull down on the handle to release the tension on the safety pin. CAREFULLY remove the safety pin.



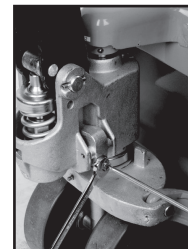
- 8.**
Feed the chain and nut first back inside the handle THROUGH the handle pin's center hole.
***IMPORTANT - TIP ***
Release the up/down lever to its lowest position to make the process easier.



- 9.**
Once the chain is in the proper position, check to see that it moves freely and that it is not obstructed.



- 10.**
Using both hands, push on the valve cam to raise the hook inside the housing and feed the end of the chain in the cam. (see image at right)



- 11.**
Pump the lever a few times to raise the forks. Put the up/down lever to its NEUTRAL position. Using a 14mm wrench and a flat screwdriver, adjust the valve cam so that the forks don't lower or rise (if handle is pumped) at this position.



- 12.**
*** IMPORTANT - FINAL CHECK ***
Test all the features of the pallet truck before this step. The handle should be pumped with full strokes to prime and eliminate air in the system. The up/down lever should be checked at the handle's lowest position for this puts the most tension on the chain. Once the pallet truck is adjusted properly and is performing well, drive in the second spring pin using a hammer.

OPERATING PALLET TRUCK

To raise the forks, place handle lever in UP position (bottom part of the handle slot).
See Figure 2.

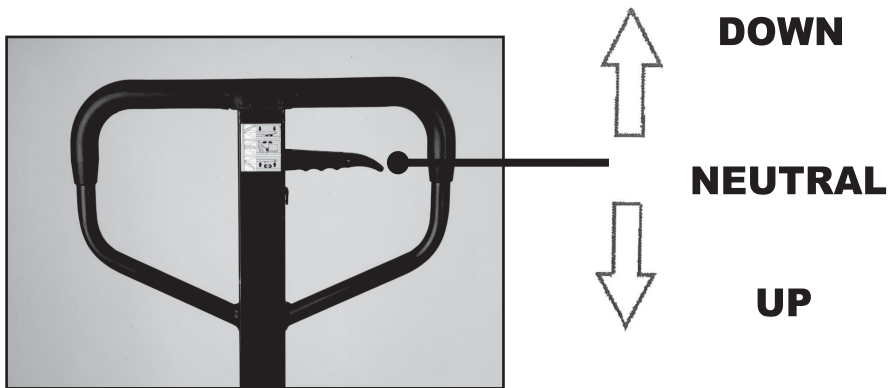


Figure 2

To lower forks, pull lever to DOWN position (upper part of the slot).
To freely move the handle, set the lever in NEUTRAL (center notch of the slot).

To lift a load:

1. Lower forks to lowest position.
2. Insert forks under load or into pallet.
3. Place lever in UP position (bottom part of the slot).
4. Move handles up and down until forks reach desired height.

To move a load:

1. Place lever in NEUTRAL position (center notch of the slot).
2. Pull or push to desired location.

To lower a load:

1. Pull lever to the DOWN position (upper part of the slot).
2. Pull forks away from load.

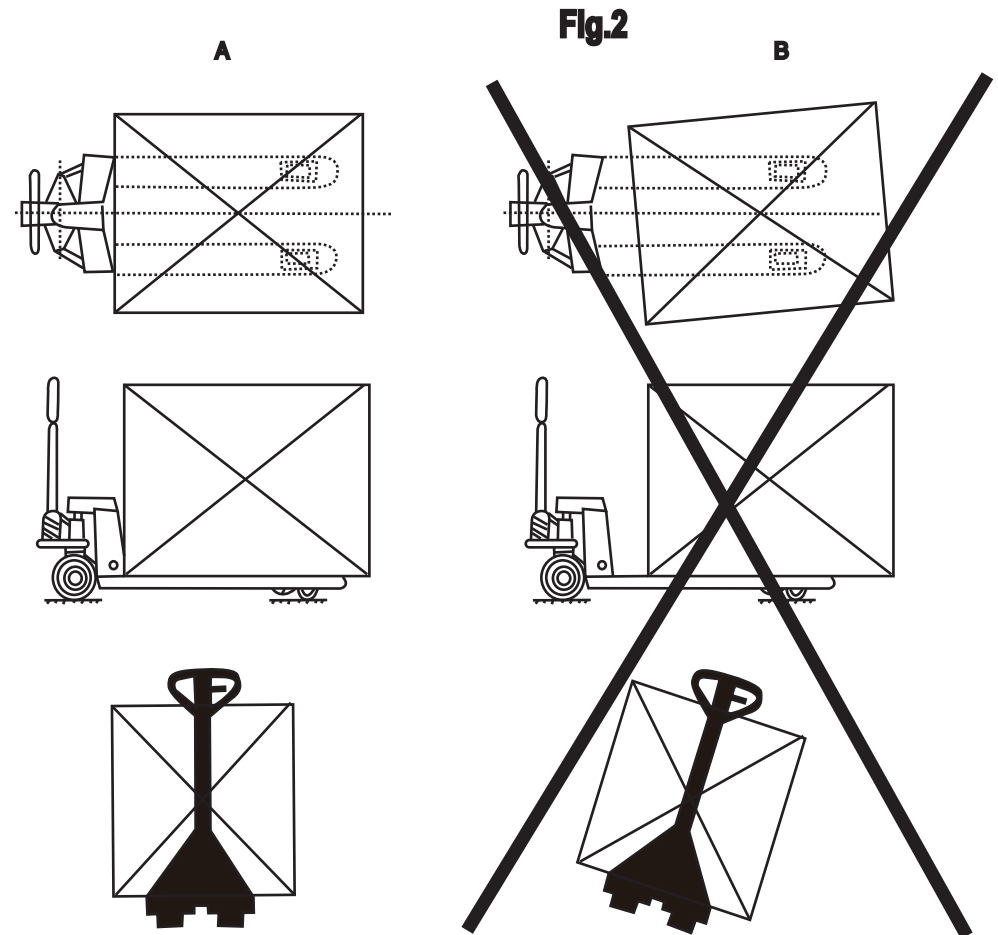
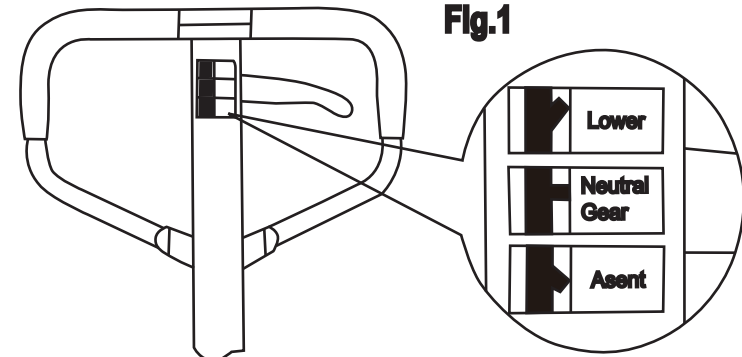
Cleaning Relief Valve

Over time, relief valve may become clogged with debris and will not work properly.

To clean relief valve, flush our hydraulic system as follows:

Pump handle quickly, raising pallet truck to full extent.

Then, quickly release pumping action.



TROUBLESHOOTING

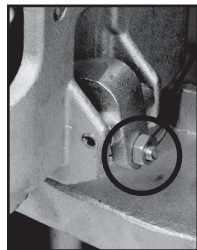
Possible problems could arise in the operation of your hydraulic pallet truck. Their probable cause(s) and corrective action(s) follow:

Condition	Probable Causes	Corrective Action
Hydraulic unit does not lift	Oil low in tank	Make sure there is no till leakage from valve and add oil.
	Steel ball not seated in hydraulic unit	See "Cleaning Relief Valve" in this manual.
	Worn O-ring in ram cylinder	Consult authorized service centre.
Once lifted truck lowers by itself	Steel ball not seated in hydraulic unit	See "Cleaning Relief Valve" in this manual.
	Worn O-ring in ram cylinder	See "Cleaning Relief Valve" in this manual.
	Relief valve not seated properly	See "Cleaning Relief Valve" in this manual.
	Relief valve not adjusted properly	Reload truck within load capacity and adjust valve by pressure adjustment screw.
	Oil leakage from each valve	Tighten plug of each valve.
Fork does not lower	Cam broken	Replace cam chain.
	UP-DOWN cam nut out of adjustment	Refer to "Adjusting UP-DOWN Cam" in this manual.
	Broken fork rods and linkage	Replace broken parts.
Lever does not set at NEUTRAL position	UP-DOWN cam nut out of adjustment	Refer to "Adjusting UP-DOWN Cam" in this manual.

Adjusting UP-DOWN Cam



DO NOT adjust the up/down lever control using the lock nut at the end of the handle chain. If nylon locking threads are removed from the screw threads, rolling vibration will cause the nut to unscrew and fall off, leaving the up/down lever unusable.



Use proper set screw and lock nut adjustment located on the side of the pump. This feature was designed to ease the pallet truck adjustment.
Tools required are: flat screwdriver and a 14mm wrench.

