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# Instruction Manual

## Standard (MJ484-MJ489 & ML372) and Heavy Duty (MJ490-MJ495 and ML373) Hydraulic Hand Pallet Truck



**KLETON**

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# 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.
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## 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.

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**5.**

**\*\*\* IMPORTANT - 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.**

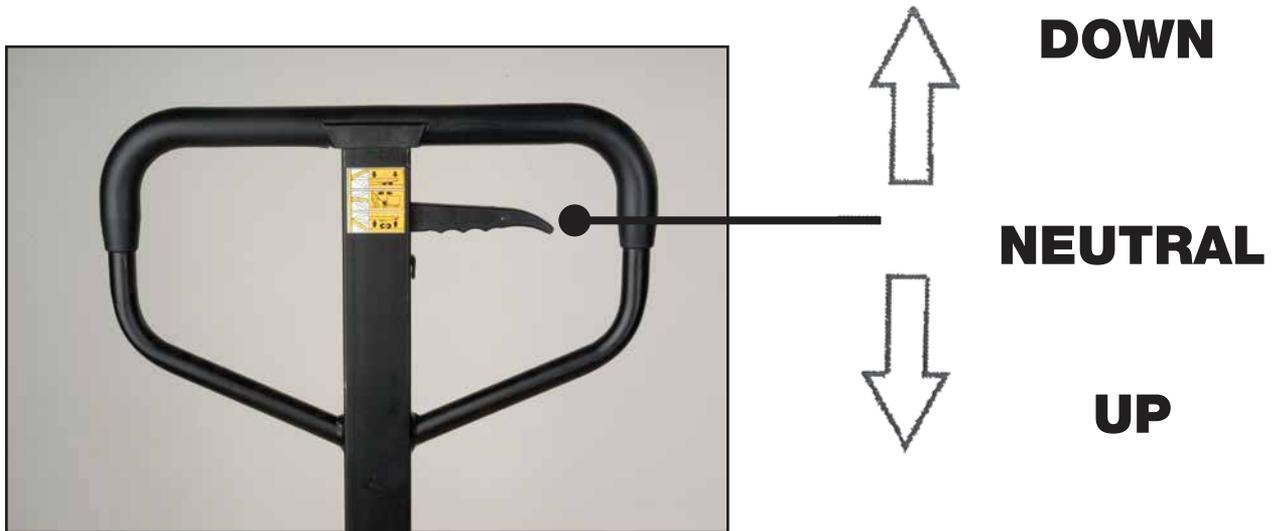
**\*\*\* IMPORTANT - FINAL CHECK \*\*\***

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.

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# 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.

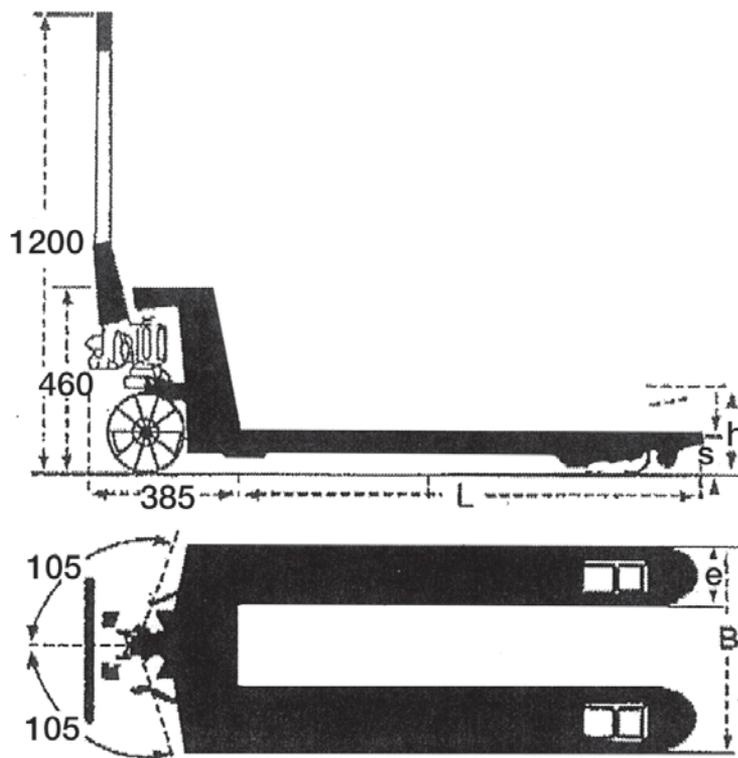
## **To move a load:**

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.
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# TECHNICAL PARAMETER



	Standard							Heavy -Duty						
Model No.	MJ484	MJ485	MJ486	MJ487	MJ488	MJ489	ML372	MJ490	MJ491	MJ492	MJ493	MJ494	MJ495	ML373
Capacity	5500 lbs.							6600 lbs.						
	2500 kg							3000 kg						
H - Maximum Raised Height	7 1/2"							7 1/2"						
	190 mm							190 mm						
S - Lowered Height	3"							3"						
	75 mm							75mm						
L - Fork Length	36"	42"	48"	36"	42"	48"	48"	36"	42"	48"	36"	42"	48"	48"
	915mm	1070mm	1220mm	915mm	1070mm	1220mm	1220mm	915mm	1070mm	1220mm	915mm	1070mm	1220mm	1220mm
E - Fork Width	6 1/4"							6 1/4"						
	160 mm							160 mm						
B - Fork Outside Distance	20 1/2"			27"				20 1/2"			27"			
	520 mm			685 mm				520 mm			685 mm			
Diameter of the steer wheel	7" x 2"							7" x 2"						
	180 mm x 50 mm							180 mm x 50 mm						
Diameter of the load wheel	3" x 3 5/8"							3" x 2 3/4"						
	74 mm x 93 mm							74 mm x 70 mm						

# 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
<b>Hydraulic unit does not lift</b>	Oil low in tank	Make sure there is no till leakage from valve and add oil.
	Relief valve not seated properly or air in the system	See "Cleaning Relief Valve" in this manual.
	Defective pressure seal in main cylinder	Consult authorized service centre.
	Relief valve not adjusted properly	Adjust valve by pressure adjustment screw
<b>Once lifted truck lowers by itself</b>	Relief valve not seated properly	See "Cleaning Relief Valve" in this manual.
	Defective pressure seal in main cylinder	Consult authorized service centre
	Relief valve not adjusted properly	Adjust valve by pressure adjustment screw
	Oil leakage	Consult authorized service centre
<b>Fork does not lower</b>	Cam chain 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	Consult authorized service centre
	Cam chain lock-nut fallen off	Replace cam chain lock-nut
<b>Lever does not set at NEUTRAL position</b>	Relief valve not adjusted properly	Adjust valve by pressure adjustment screw

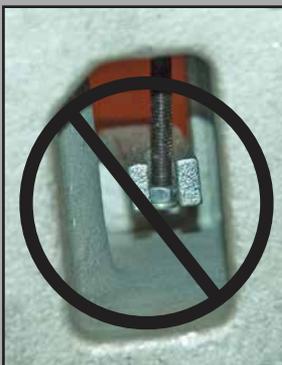
## Cleaning Relief Valve

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

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

Hold the UP/DOWN lever to the DOWN position and move the handles up and down several times.

## Adjusting UP-DOWN Cam

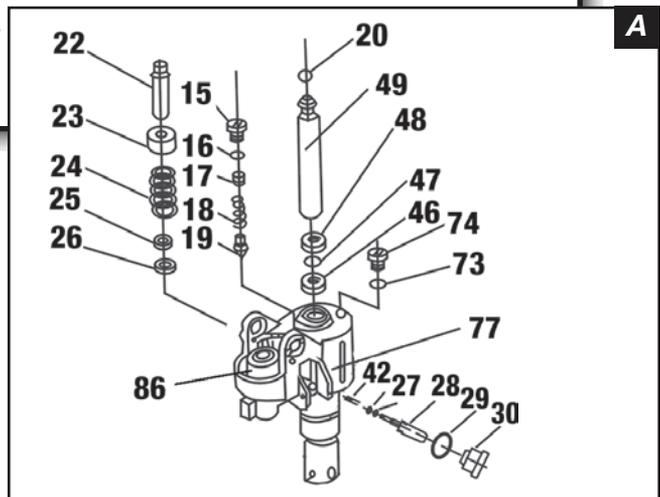
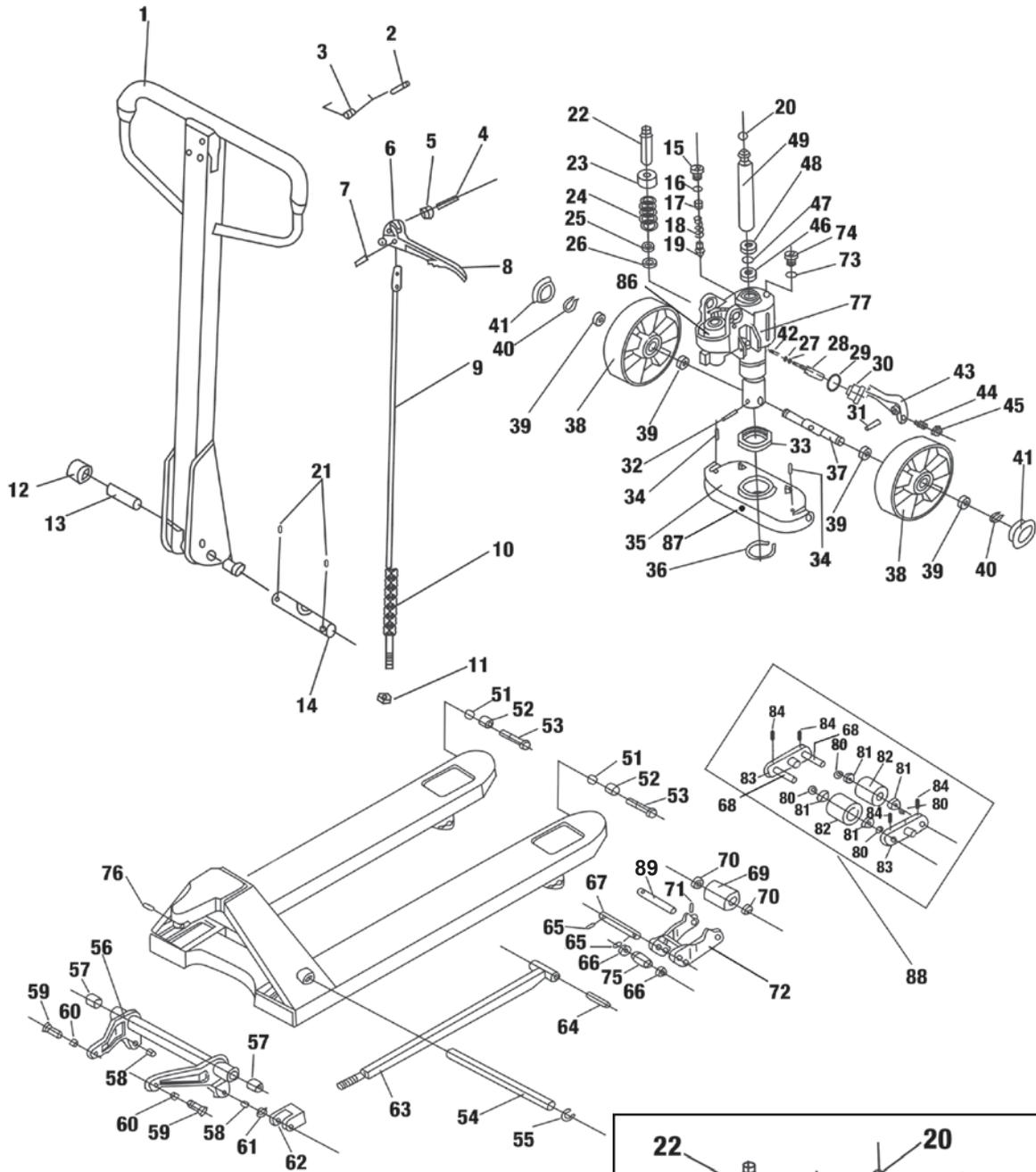


**DO NOT** adjust the up/down lever control using the lock nut at the end of the handle chain. If nylon locking threads are removed from the screw threads, rolling vibration will cause the nut to unscrew and fall off, leaving the up/down lever unusable.



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.

# HYDRAULIC HAND PALLET TRUCK ASSEMBLY



# Parts list for Standard and Heavy-Duty Models

No.	Order No.	Description	Qty
1	MJ552	Handle	1
2	MJ553	Spring Pin 4x30	2
3	MJ554	Blocking Spring	1
4	MJ555	Spring Pin 4x20	1
5	MJ556	Roller	1
6	MJ557	Spring Pin 6x30	1
7	MJ558	Spring Pin 4x20	1
8	MJ559	Control Lever	1
9	MJ560	Control Rod	1
10	MJ561	Chain	1
11	MJ562	Chain Lock-Nut	1
12	MJ563	Roller	1
13	MJ564	Roller Pin	1
14	MJ565	Handle Pin	1
15	MJ566	Oil Plug	1
16	MJ567	Oil Plug O-ring	1
17	MJ568	Relief Screw	1
18	MJ569	Spring	1
19	MJ570	Relief Valve	1
20	MJ571	Steel Ball	1
21	MJ572	Spring Pin 5 x 35	1
22	MJ573	Rear Pump Piston	1
23	MJ574	Spring Cap	1
24	MJ575	Spring	1
25	MJ576	Dust Seal	1
26	MJ577	U-Ring	1
27	MJ578	Control Stem O-Ring	2
28	MJ579	Control Stem with Spring	1
29	MK798	Brass Nut O-Ring	1
30	MJ581	Brass Nut	1
31	MJ582	Spring Pin 8x50	1
32	MJ583	Spring Pin 8x45	1
33	MJ584	Thrust Bearing	1
34	MJ585	Spring Pin 5x30	2
35	MJ586	Thrust Plate	1
36	MJ587	Retaining Ring	1
37	MJ588	Wheel Shaft	1
38	MN256	PU Steer Wheel	2
38	ML367	Nylon Steer Wheel	2
39	MK984	Ball Bearing	4
40	MJ591	Retaining Ring	2
41	MJ592	Dust Cap	2
42*	MJ593	Control Valve Assembly	1
43	FT0005-043	Lever	1
44	MJ595	Control Adjustment Set Screw	1
45	MJ596	Nut	1
46	MJ597	U-Ring	1
47	MJ598	O-Ring	1
48	MJ599	Dust Seal	1

\*Includes parts: 27/28/29/30/42

No.	Order No.	Description	Qty
49	MJ600	Main Lift Piston	1
51	MJ613	Lock-Nut	2
52	MJ614	Guide Roller	2
53	MJ615	Bolt	2
54	MJ616	19" Shaft for 20.5" W pallet trucks	1
54	MK704	24" Shaft for 27" W pallet trucks	1
55	MJ617	Retaining Ring	2
56	MJ618	Lifting Yoke, 20.5" W, Orange Std	1
56	MJ619	Lifting Yoke, 27" W, Orange Std	1
56	MJ620	Lifting Yoke, 20.5" W, Blue HD	1
56	MJ621	Lifting Yoke, 27" W, Blue HD	1
57	MJ622	Bushing	2
58	MJ623	Retaining ring	2
59	MJ624	Thrust Plate Pin	2
60	MJ625	Bushing	2
61	MJ585	Spring Pin 5x30	2
62	MJ627	Clevis	2
63	MJ628	Rod, 36" Length, Std	2
63	MJ629	Rod, 42" Length, Std	2
63	MJ630	Rod, 48" Length, Std	2
63	ML048	Rod, 36" Length, HD	2
63	ML049	Rod, 42" Length, HD	2
63	ML050	Rod, 48" Length, HD	2
64	MN300	Tandem Wheel Shaft	2
65	MJ585	Spring Pin 5x30	4
66	MJ633	Washer	4
67	MJ634	Arm Pin	2
68	MJ635	Load Wheel Shaft	2
69	MJ636	PU Load Wheel for Orange Models	2
69	ML368	Nylon Load Wheel for Orange Models	2
70	MK984	Ball Bearing	4
71	MJ585	Spring Pin 5x30	2
72	MJ639	Wheel Lever Bracket	2
73	MJ640	Washer	1
74	MJ641	Oil Plug	1
75	MJ642	Exit Roller	1
76	MJ643	Spring Pin 5x50	1
76B	MN447	Bolt 6x12 mm	1
77	MN602	Cylinder Housing	1
80	MK983	Washer	8
81	MK984	Ball Bearing	8
82	MK985	PU Load Wheels for Blue Models	4
82	ML369	Nylon Load Wheels for Blue Models	4
83	MK986	Tandem Plate	2
84	MK987	Spring Pin 5 x 40	8
86	ML037	Pump Cylinder Assembly	1
87	ML042	Grease Nipple Valve	1
88	ML047	Load Wheel Assembly for Blue Models (PU)	1
89	MP608	Load Wheel Shaft	1
A	MK801	Cylinder Housing Assembly	1