



HYDRAULIC PALLET TRUCK

MQ052/MQ053

INSTRUCTION MANUAL



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.
- 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.

*** 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.



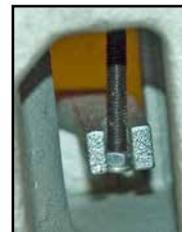
9.

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.

OPERATING PALLET TRUCK

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

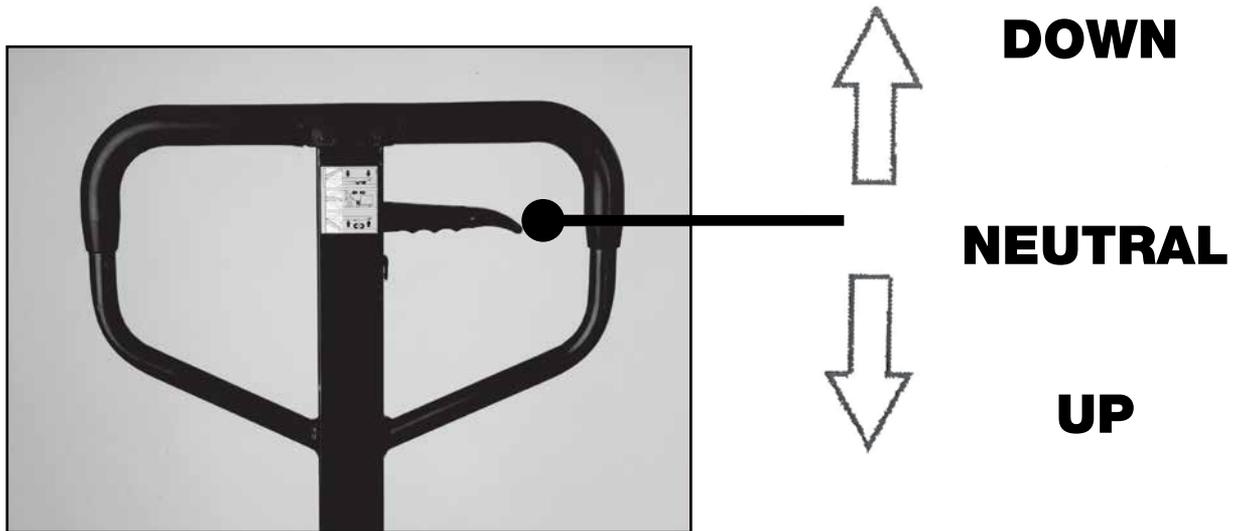


Figure 2

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.

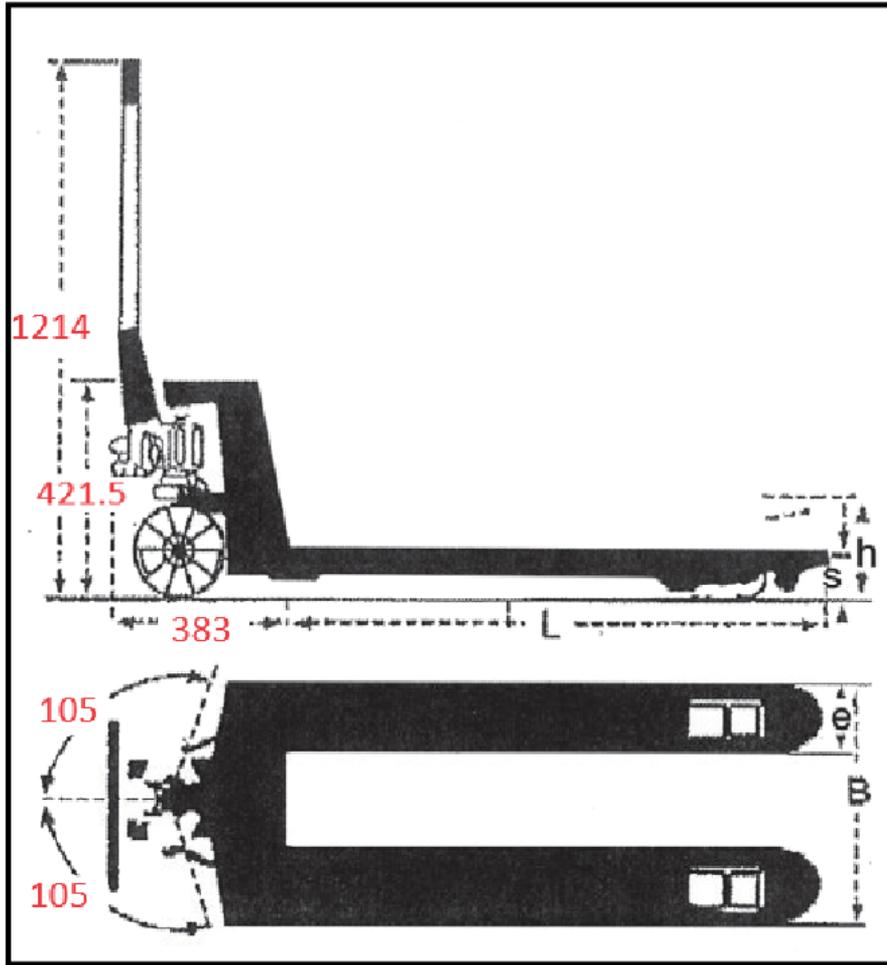
To move a load:

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.

TECHNICAL PARAMETER



Model No. (Assembled)	MQ052	MQ053
Capacity	5500 lbs.	
	2500 kg	
H - Maximum Raised Height	7.5"	
	190 mm	
S - Lowered Height	3.35"	
	85 mm	
L - Fork Length	48"	
	1219 mm	
E - Fork Width	6.3"	
	160 mm	
B - Fork Outside Distance	21"	27"
	533 mm	685 mm
Dimensions of the steer wheel	7"	
	178 mm	
Dimensions of the Load wheel	3.15"	
	80mm	

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.
	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
Once lifted truck lowers by itself	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
Fork does not lower	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
Lever does not set at NEUTRAL position	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 our hydraulic system as follows:

Pump handle quickly, raising pallet truck to full extent.

Then, quickly release pumping action.

Adjusting UP-DOWN Cam



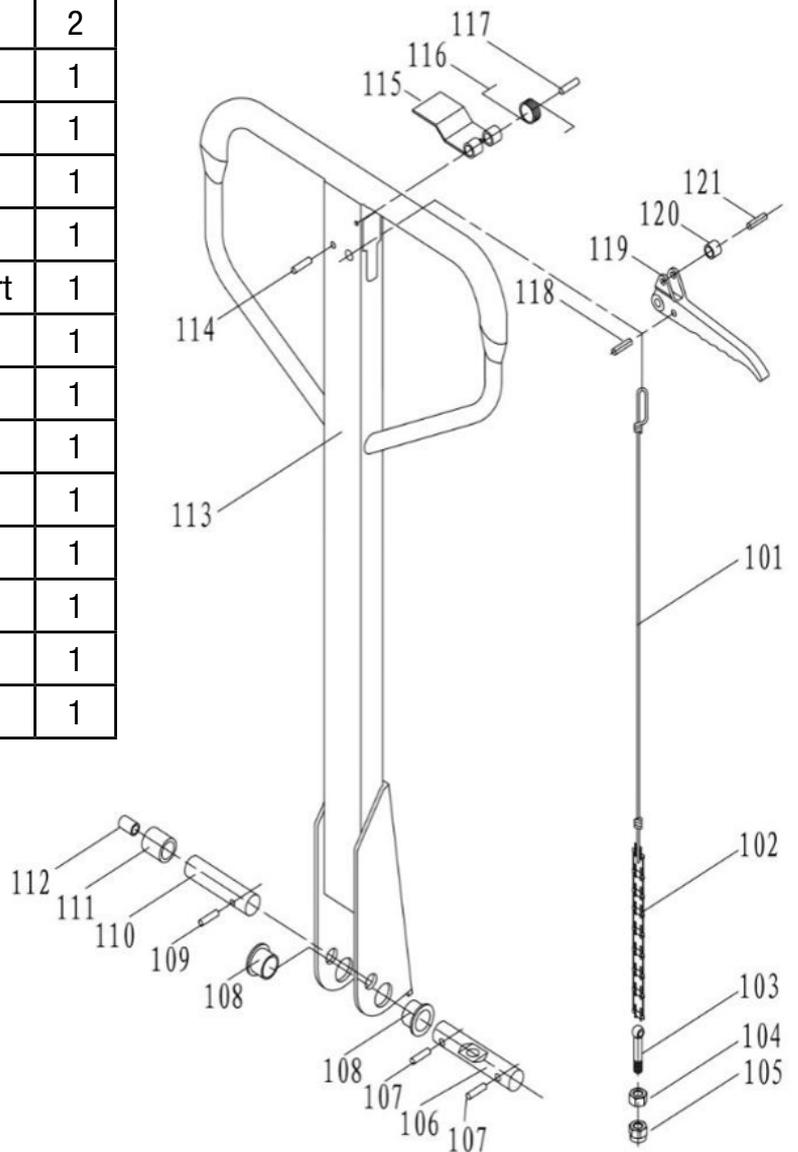
DO NOT adjust the up/down lever control using the lock nut at the end of the handle chain. If nylon locking threads are removed from the screw threads, rolling vibration will cause the nut to unscrew and fall off, leaving the up/down lever unusable.



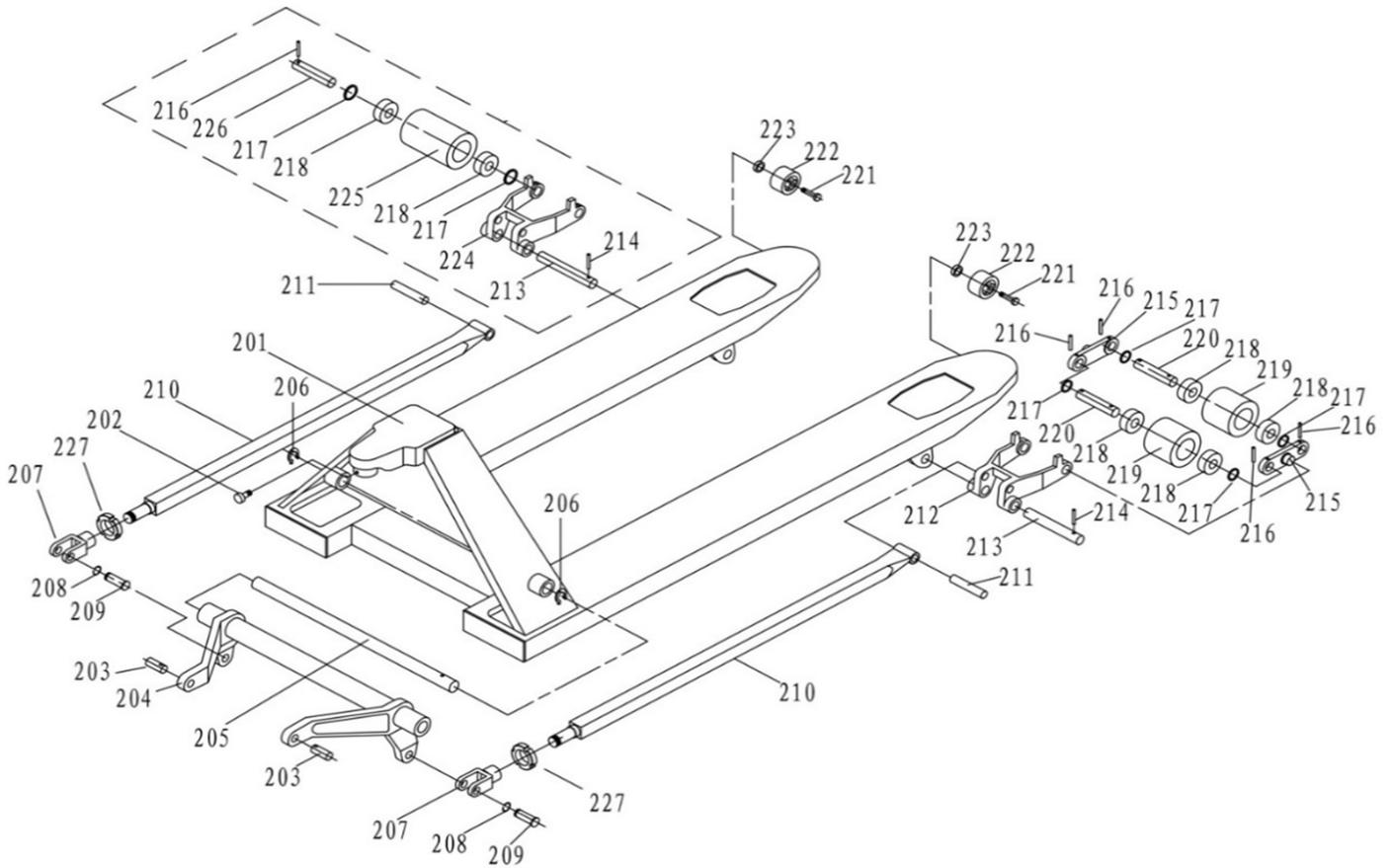
Use proper set screw and lock nut adjustment located on the side of the pump. This feature was designed to ease the pallet truck adjustment. Tools required are: flat screwdriver and a 14mm wrench.

HANDLE SPARE PARTS

Number	Model	Name	Qty
101	MQ067	Pulling rod	1
102		Chain	1
103		Drop bolt	1
104		Hexagonal nut	1
105		Metalloid nut	1
106		Positioning bearing	1
107		Elastic pin	2
108		Cover	2
109		Elastic pin	1
110		Roller bearing	1
111		Roller	1
112		Roller Cover	1
113		Handle welding part	1
114		Elastic pin	1
115		Return shrapnel	1
116		Return spring	1
117		Elastic pin	1
118		Elastic pin	1
119		Control Handle	1
120		Handle wheel	1
121		Elastic pin	1



BODY REPLACEMENT PARTS



Number	Model	Name	Qty
201		Body frame	1
202		Inner hexagonal screw	1
203		Connecting bearing	2
204		Lever frame (550/685)	1
205		Lever bearing (550/685)	1
206		Elastic pin	2
207		Fork ear	2
208		Washer for bearing 16	2
209		Fork ear connector	2
210		Pushing rod welding (1150 / 1220)	2
211		Pusing Rod connector	2
212		Front Wheel Rack	2
213		Positioning bearing	2
214	MQ068	Elastic pin	2
215	MQ069	Double-wheel side board	4

Number	Model	Name	Qty
216	MQ070	Elastic pin 5 X 30	8
217	MQ071	Gasket 20 X 28 X 2	8
218	MQ072	Bearing 6204	8
219		Front wheel (PU / NL)	4
220	MQ073	Front wheel bearing	4
221	MQ074	Hexagonal screw M6 X 45	2
222	MQ075	Climbing Wheel 50DX20	2
223		Metalloid nut M6	2
224		Single wheel Frame	2
225		Single front Wheel (PU/NL)	2
226		Single Wheel Bearing	2
227		Metalloid nut M6	2
		Single Wheel Part	

Pump Spare Parts

Number	Model	Name	Qty
301		Spring gland	1
302	MQ076	Pump core spring	1
303		Pump core	1
304		Anti-dust ring	1
305		Sealing ring	1
306		Small pump	1
307		Copper sheet	1
308	MQ077	Anti-dust cover	2
309	MQ078	Retaining Ring	2
310	MQ079	Bearing	4
311	MQ080	Rear wheel	2
312	MQ081	Elastic pin	1
313		Elastic pin	2
314		Bearing board	1
315	MQ082	Check ring for bearing	1
316		Pulling ball bearing	1
317	MQ083	Rear wheel bearing	1
318	MQ089	Pump	1
319		Grouped gasket	1
320		Inner hexagonal screw	1
321		Sealing ring	1
322		Limit lever	1
323		"O"sealing ring	1
324		Anti-dust	1
325		Piston rod	1
326		Steel ball	1
327	MQ084	Pedal control	1
328	MQ085	Elastic pin	1
329	MQ086	Nut	1
330	MQ087	Fasten screw	1
331-349	MQ088	Valve Body Assembly	1

Valve Body Assembly

Number	Model	Name	Qty
331	MQ088	"O"sealing ring	2
332		Copper nut	1
333		"O"sealing ring	1
334		"O"sealing ring	1
335		Top rod	1
336		Top rod spring	1
337		Steel ball	1
338		High pressure	1
339		Valve body connector	1
340		Cutting edge beaming	1
341		"O"sealing ring	1
342		High pressure valve body	1
343		Cutting edge beaming	1
344		"O"sealing ring	1
345		Elastic pin	2
346		Spring sheet	1
347		Screw	1
348		Valve core spring	1
349		Gland	1