



## **INSTRUCTION MANUAL**

**FOR Low Profile 4,000 lbs. Pallet Truck**

**MODELS NUMBER: PM4-xxxx-LP**



## **VESTIL MANUFACTURING CORP.**

2999 NORTH WAYNE STREET, P.O. BOX 507, ANGOLA, IN 46703

TELEPHONE: (260) 665-7586 -OR- TOLL FREE (800) 348-0868

FAX: (260) 665-1339

URL: [WWW.VESTILMFG.COM](http://WWW.VESTILMFG.COM) EMAIL: [SALES@VESTIL.COM](mailto:SALES@VESTIL.COM)

# Hand Pallet Truck

**Note:** Owner and operator **MUST** read and understand this operating instructions before use this pallet truck.

Thank you for choosing our pallet truck. For your safety and correct operation, please carefully read the manual before use.

**NOTE:** All of the information reported herein is based on data available at the time of printing. The factory reserves the right to modify its own products at any time without notice or incurring in any sanction. Please verify with the factory for possible updates.

## 1. GENERAL SPECIFICATIONS

Capacity (lbs.)	4,000
Max. Fork Height	6"
Min. Fork Height	1 7/8"
Fork Length	48"
Overall Fork Width	20"/27"/33"
Load Wheel Diameter	Ø1 3/4" x 3 5/8" Steel – 6003 2RS
Steering Wheel Diameter	Ø6 1/4" x 2" Poly on steel – 6204 2RS
Net Weight	228/270/300

## 2. TO ATTACH HANDLE TO PUMP UNIT

2.1 Remove 3 bolts (D611) from the handle bracket (D151).

2.2 Set handle (D610A, D610B or D610AS) on the bracket (D151), notice to allow the chain (D612) and the adjusting bolts (D614) assembly to pass through the hole in the center of the bracket (D151) and shaft (D153).

2.3 Insert the 3 bolts (D611) through the handle into the bracket (D151), then tighten them securely.

2.4 Raise the lever plat (D132) and insert the adjusting bolt (D614) into the front slot, keeping the adjusting nut (D615) on the under side of the lever plat (D132).

## 3. TO ADJUST RELEASE DEVICE

On the draw-bar of this pallet truck, you can find the control handle (D608 or D608S) which can be regulated in three positions:

Raise - handle down

Drive position - 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 (D615) on the adjusting bolt (D614) or adjusting screw (D133) 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 (D615) or adjusting screw

(D133) counter-clockwise until the forks do not lower.

3.3 If the forks do not descent when the control handle (D608 or D608S) is in the **LOWER** position, turn the nut (D615) or adjusting screw(D133) clockwise until raising the control handle(D608 or D608S) lowers the forks. Then check the **DRIVE** position according to item 3.1 and 3.2 to be sure the nut (D615) or adjusting screw (D133) is in the proper position.

3.4 If the forks do not elevate while pumping in the **RAISE** position, turn the nut (D615) or adjusting screw (D133) 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 3.3.

## 4. MAINTENANCE

Your pallet truck is largely maintenance-free.

### 4.1 OIL

Please check the oil level every six months. The oil capacity is about 0.317 quarts. Use the hydraulic type oil according to temperature scale below.

Temperature	Oil
-4°F~+104°F	L-HV46 Hydraulic oil

### 4.2 HOW TO BLEED AIR FROM THE PUMP UNIT

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 banished in the following way: let the control handle (D608 or D608S) on the **LOWER** position, then move the handle (D610A, D610B or D610AS) 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

Use motor oil or grease to lubricate all moveable parts.

## 5. GUIDE TO SAFETY OPERATION

**For safe operation of the Hand Pallet Truck, please read all warning signs and instructions here and on the pallet truck prior to use.**

5.1 Do not operate the pallet truck unless you are familiar with it and have been trained or authorized to do so.

5.2 Do not operate the truck unless you have been trained and authorized. Give special attention to the wheels, the handle assembly, the forks, and the lower control.

5.3 Do not use the truck on sloping ground.

5.4 Never place any part of your body in the lifting mechanism or under the forks or load. Do not carry passengers.

5.5 We advise that operators should wear gloves and safety shoes.

- 5.6 Do not handle unstable or loosely stacked loads.
- 5.7 Do not overload the truck.
- 5.8 Always place loads centrally across the forks and not at the end of the forks (See Fig. 2).
- 5.9 The capacity of the truck assumes an evenly distributed load with the centre of the load being at the halfway point of the length of the forks.
- 5.10 Make sure that length of the forks matches the length of the pallet.
- 5.11 Lower the forks to lowest height when the truck is not being used.
- 5.12 In other specific conditions the operators should take extra care in operating the truck.

## 6. TROUBLES SHOOTING

No	Trouble	CAUSE	ACTION
1	The forks can not be up the max. 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 (D615) is too high or the screw (D133) is too close, keep the pumping valve open. - Air comes into the hydraulic oil.	- Fill in the oil. - Change the oil. - Adjust the nut (D615) or the screw (D133) .(see item 3.4)  - Banish the air.(see item 4.2)
3	The forks can not be descended.	- The piston rod (D147) or pump body 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 (D615) or the screw (D133) is not in the correct position.	- Replace the piston rod (D147) or pump body.  - Keeping the fork in the lowest position if not using, and pay more attention to lubricate the rod.  - Adjust the nut (D615) or the screw (D133). (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 fork descends without the release valve worked.	- 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 (D615) or the screw (D133) 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 (D615) or the screw (D133). (See item 3.2)

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

Fig.1

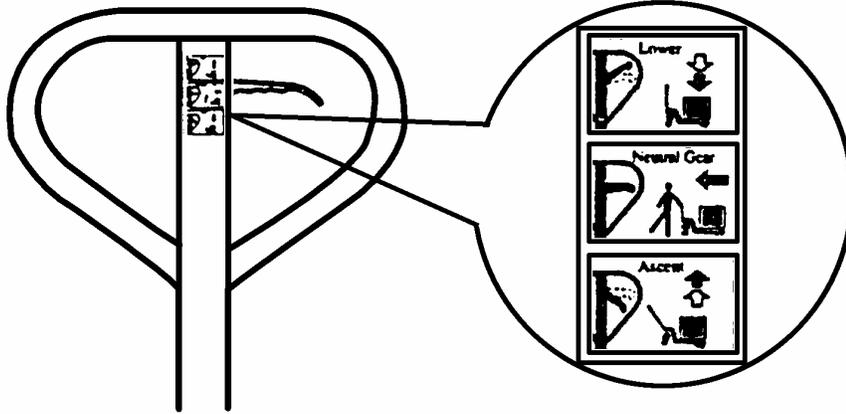
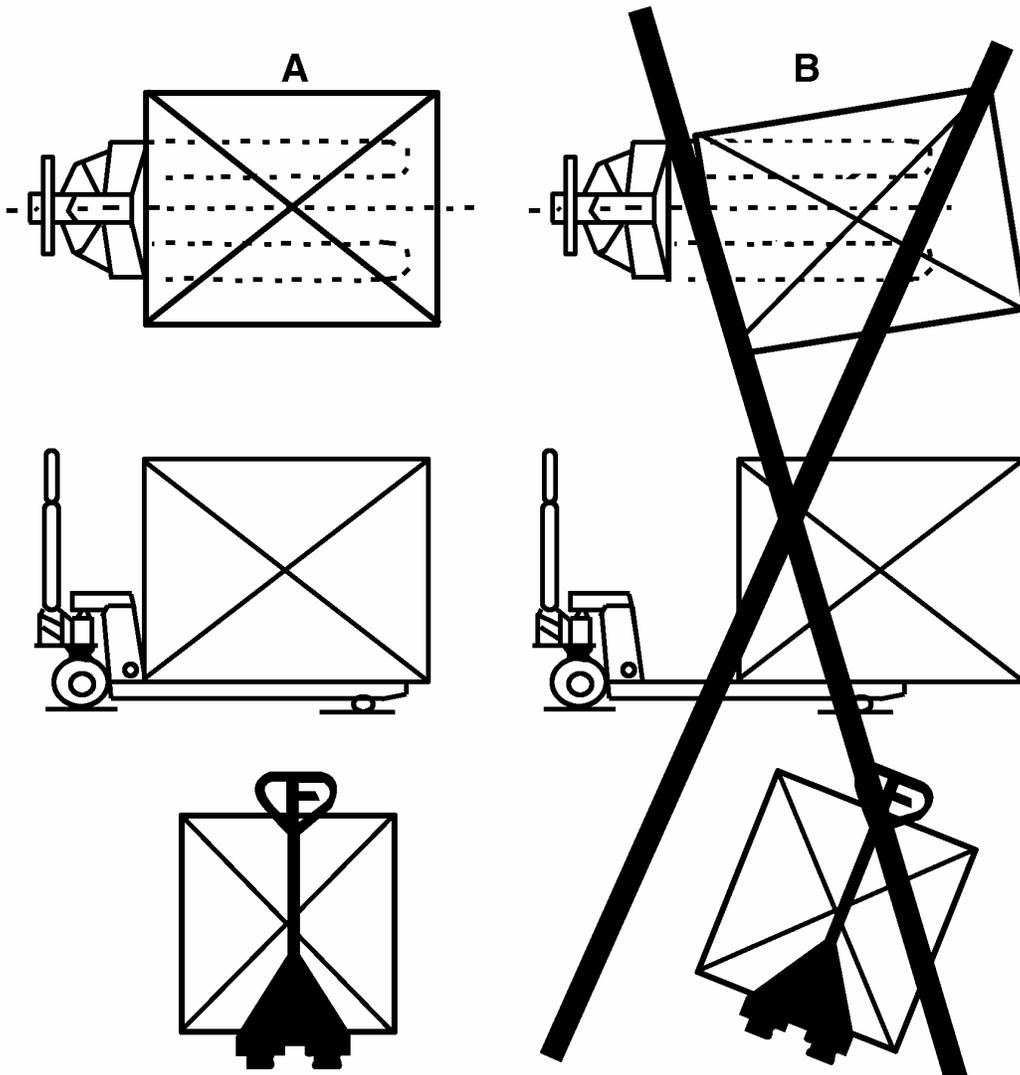
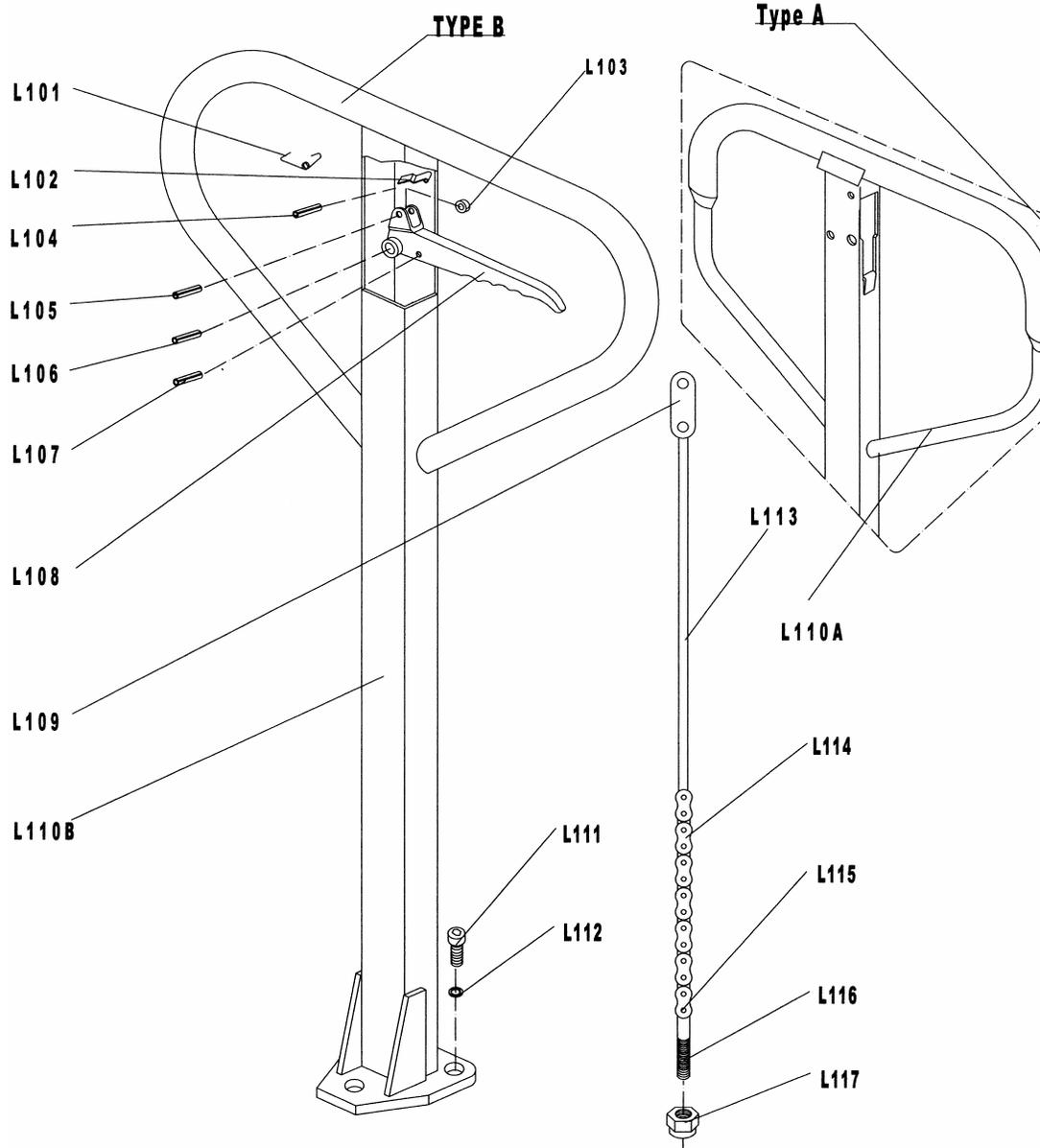


Fig.2



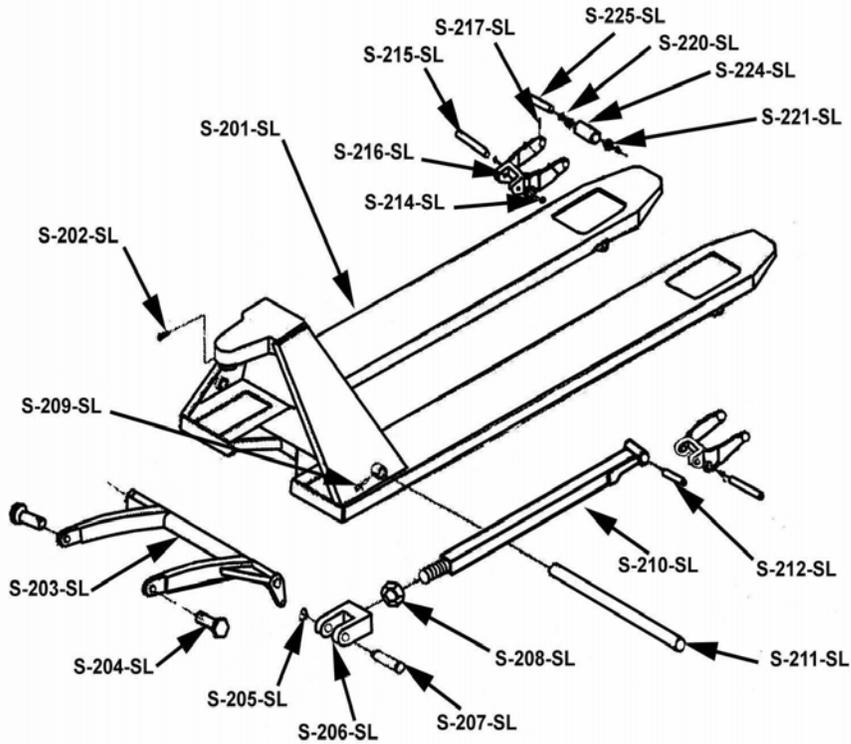
**HANDLE ASSEMBLY**



### PARTS LIST OF HANDLE TYPE A

NO.	Description	Qty.	Remark	NO.	Description	Qty.	Remark
PM4-L101-H-A	Spring	1		PM4-L110-H-A	Handle	1	<b>For TYPE A</b>
PM4-L102-H-A	Blade Spring	1		L110B	Handle	1	<b>For TYPE B (Not available)</b>
PM4-L103-H-A	Roller	1		PM4-L111-H-A	Bolt	3	
PM4-L104-H-A	Elastic pin	1		PM4-L112-H-A	Elastic Washer	3	
PM4-L105-H-A	Elastic pin	1		PM4-L113-H-A	Pull Rod	1	
PM4-L106-H-A	Elastic pin	1		PM4-L114-H-A	Chain	1	
PM4-L107-H-A	Elastic pin	1		PM4-L115-H-A	Pin	1	
PM4-L108-H-A	Control Handle	1		PM4-L-116-H-A	Adjusting Bolt	1	
PM4-L109-H-A	Pull Board	1		PM4-L117-H-A	Adjusting Nut	1	

## FORK FRAME ASSEMBLY



## PARTS LIST OF FORK FRAME

No	Description	Qty.	No	Description	Qty.
PM4-201SL-F	Fork Frame	1	PM4-211SL-F-33	Long Shaft – 33"	1
PM4-202SL-F	Bolt	1	PM4-212SL-F	Shaft	2
PM4-203SL-F-20	Rock-Arm - (TRUNION) -20" WIDE	1	PM4-213SL-F	Elastic Pin	2
PM4-203SL-F-27	Rock-Arm - (TRUNION) - 27" WIDE	1	PM4-214SL-F	Washer	4
PM4-203SL-F-33	Rock-Arm - (TRUNION) - 33" WIDE	1	PM4-215SL-F	Shaft	2
PM4-204SL-F	Shaft	2	PM4-216SL-F	Frame of Roller	2
PM4-205SL-F	Retaining Ring	2	PM4-217SL-F	Elastic Pin	8 or 2
PM4-206SL-F	Joint	2	PM4-220SL-F	Washer	8 or 4
PM4-207SL-F	Pin	2	PM4-221SL-F	Bearing 6003 2RS	8 or 4
PM4-208SL-F	Nut	2	PM4-223SL-F	Elastic Pin	2
PM4-209SL-F	Elastic Pin	1	PM4-224SL-F	Roller (Ø1 3/4" x 3 5/8") Steel	2
PM4-210SL-F	Pushing Rod	2	PM4-225SL-F	Shaft for Roller	2
PM4-211SL-F-20	Long Shaft – 20"	1			
PM4-211SL-F-27	Long Shaft – 27"	1			



## Part List of Pump

NO.	Description	Qty.	Remark	NO.	Description	Qty.	Remark
PM4-L301-P	Retaining Ring (for axle)	2	<b>For OLD TYPE</b>	PM4-L326-P	Pressure Roller	1	
PM4-L302-P	Hub Cap	2		PM4-L327A-P	Bushing	1	
PM4-L303-P	Washer	2		PM4-L328A-P	Elastic Pin	1	
PM4-L304-P	Shaft of wheel	1		PM4-L329A-P	Elastic Pin	1	
PM4-L305-P	Bearing - 6204 2RS	4		PM4-L330-P	Bushing	2	
		2		PM4-L331A-B-P	Should bolt	2	
PM4-L311-P	Pump Body	1		PM4-L332-P	Plug Bolt	1	
L348	Elastic Pin	1		PM4-L333-P	Spring	1	
PM4-L301N-P	Screw	6		PM4-L334-P	O-ring	1	
PM4-L302N-P	Hub Cap	2		PM4-L335-P	Valve Pin	1	
PM4-L303N-P	Retaining Ring (for axle)	2	<b>FOR NEW TYPE</b>	PM4-L336-P	Seat of Pumping Valve	1	
PM4-L304N-P	Shaft of wheel	1		PM4-L337-P	O-ring	1	
PM4-L305N-P	Bearing	4		PM4-L338-P	Steel Ball	1	
PM4-L306N-P	Steering Wheel (Ø6 ¼" x 2"), Poly on Steel	2		PM4-L339-P	Safe Valve Pin	1	
PM4-L307N-P	Retaining Ring	1		PM4-L340-P	Spring	1	
PM4-L311N-P	Pump Body	1		PM4-L341-P	Adjusting Bolt	1	
PM4-L348N-P	Elastic Pin	1		PM4-L342-P	O-ring	1	
PM4-L308-P	O-ring	2		PM4-L343-P	Plug Bolt	1	
PM4-L309-P	Release valve	1		PM4-L344-P	Elastic pin	1	
PM4-L310-P	Spring	1		PM4-L345-P	Lever Plat	1	
PM4-L312-P	Seal Washer	1	L346A	Screw	2		
PM4-L313-P	Bolt	1	L347A	Elastic pin	1		
PM4-L314-P	Y-seal	1	PM4-L348-P	Roller	1		
PM4-L315-P	Y-seal	1	PM4-L349-P	Thrust Bearing	1		
PM4-L316-P	Wiper	1	PM4-L350-P	Snap Ring	1		
PM4-L317-P	Lift Piston Rod	1	PM4-SK	Seal Kit	1	Seal kits are sold only in kits	
PM4-L318-P	Steel Ball	1					
PM4-L319A-P	Bracket	1					
PM4-L320-P	Pump piston	1					
PM4-L321-P	Cap	1					
PM4-L322-P	Spring	1					
PM4-L323-P	Wiper	1					
PM4-L324-P	Y-seal	1					
PM4-L325-P	Axle of Roller	1					