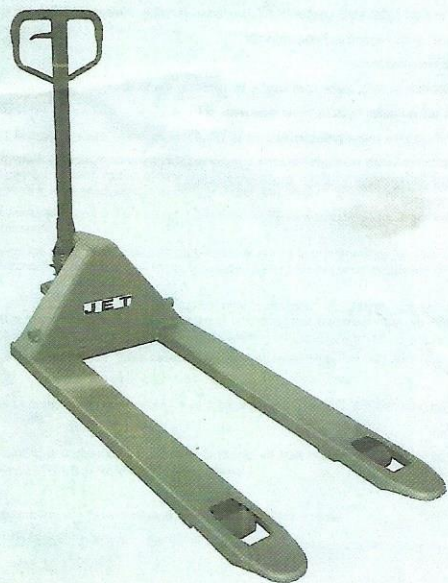




Model no.:	Stock no.:
Serial no.:	
Purchased from:	
Date purchased:	Date in service:

## Operating Instructions and Parts Manual PTJ-A Series Pallet Trucks



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## 3.0 Introduction

Your JET Pallet Truck is designed with most efficient features for warehouse or dock.

The 2.56-inch lowered height, tapered fork tips and wide polyurethane entry/exit rollers combine for easy entry and exit of pallets. The 180° turning radius allows maneuverability in confined spaces. Ball bearings on steer and load wheels are lifetime lubricated, double-sealed, and promote smooth, quiet travel.

The cast iron pump features top-of-the-stroke and overload by-pass valve systems, and single point valve service for easy replacement.

The chassis is heavy gauge steel, reinforced with cross-welded plates to prevent forks from bending; solid steel push rods provide additional strength. Paint finish is powder-coated for superior protection of the underlying steel.

In summary, your JET Pallet Truck is designed to offer consistent, long-term operation with minimal maintenance and service attention. If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: [www.jettools.com](http://www.jettools.com).

Retain this manual for future reference. If the pallet truck transfers ownership, the manual should accompany it.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: [www.jettools.com](http://www.jettools.com).

**WARNING** Read and understand the entire contents of this manual before attempting assembly or operation. Failure to comply may cause serious injury.

Register your product using the provided mail-in card, or register online:

<http://www.jettools.com/us/en/service-and-support/warranty/registration/>



## 1.0 IMPORTANT SAFETY INSTRUCTIONS

### WARNING - To reduce risk of injury:

- Read and understand the entire owner's manual before using the pallet truck.
- Read and understand all warning and instruction labels on the truck.
- Do not place hands or feet under the pallet truck at any time.
- Do not operate a loaded pallet truck on ramps or inclines.
- Do not tip load pallet truck forks. This may cause damage to the forks and personal injury if the rear of the pallet truck suddenly "pops up."
- Never leave a loaded pallet truck unattended in the raised position. Always lower load to the floor.
- Do not load pallet truck beyond its rated capacity.
- Secure load before transporting.
- To prevent accidental tipping, make sure load is centered on the forks.
- Do not move a loaded pallet truck by other than manual force.
- Do not transport persons with a pallet truck.
- Failure to comply with these warnings may result in personal injury and/or property damage.
- Replace warning labels if they become obscured or removed.

## 4.0 Specifications

Table 1

Model number	PT-1636JA	PT-2036JA	PT-2042JA	PT-2048JA	PT-2742JA	PT-2748JA
Stock number	161003	161004	161005	161006	161008	161009
Load Capacity	5,500 lbs. (2495 kg.)					
Turning Radius	180 deg.					
Overall Fork Length	L1 36 in. (914mm)	42 in. (1067mm)	48 in. (1219mm)	42 in. (1067mm)	48 in. (1219mm)	
Overall Forks Width	W1 16 in. (406mm)	20-1/2 in. (521mm)		27 in. (686mm)		
Fork Width	W2 6-1/4 in. (159 mm)					
Lowered Height	H2 2.56 in. (65 mm)					
Maximum Height	H1 6.09 in. (157 mm)					
Number of Strokes to Reach Maximum Height	12					
Force Required to Pump at Maximum Load	77 lbs. (35 kg)					
Steer Wheel Size (Dia. x W)	A 7.1 x 2 in. (180 x 51 mm)					
Load Wheel Size (Dia. x W)	B 2-1/2 x 3-11/16 in. (63.5 x 94 mm)					
Force Required to Move Maximum Load	120 lbs. (54.5 kg)					
Overall Height	C 45-1/8 in. (1146 mm)					
Overall Length	L2 51 in. (1295 mm)	57 in. (1448 mm)	63 in. (1600 mm)	57 in. (1448 mm)	63 in. (1600 mm)	
Overall Width	W1 16 in. (406 mm)	20-1/2 in. (521 mm)		27 in. (686 mm)		
Net Weight	118 lbs. (53.5 kg)	127 lbs. (57.6 kg)	136 lbs. (62 kg)	138 lbs. (62.8 kg)	141 lbs. (64 kg)	147 lbs. (66.7 kg)
Gross Weight	129 lbs. (58.5 kg)	138 lbs. (62.5 kg)	147 lbs. (66.7 kg)	149 lbs. (67.6 kg)	152 lbs. (69 kg)	158 lbs. (71.7 kg)
Pump Type	Integrated					
Materials	Cast Iron					
Forks	Sheet steel, 11 ga. (3.2 mm)					
Chassis	Sheet steel, 11 ga. (3.2 mm)					
Wheels	Polyurethane					

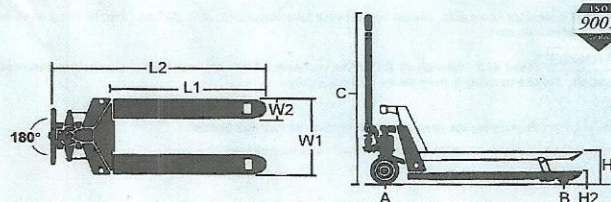


Figure 4-1

The specifications in this manual were current at the time this manual was published, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.



## 6.0 Operation

### To lift a load:

1. Lower forks to lowest position.
2. Insert forks under load or into pallet.
3. Push the lever down.
4. Pump handle up and down until forks reach desired height.

### To move a load:

1. Place lever in center neutral position.
2. Pull or push to desired location.

### To lower a load:

1. Pull lever up, and allow load to settle. (The lever is spring loaded and will return to neutral position when released.)
2. Pull forks away from load.

## 7.0 Maintenance

### 7.1 Lubrication

Check the oil level *annually* by unscrewing oil fill plug (Figure 7-1). Oil level should be near the bottom of the hole.

When adding oil, fill the reservoir through the plug hole with hydraulic jack oil, until oil comes to bottom of hole, or begins to slightly seep out of the fill hole. Do not overfill.

After filling, reinstall plug, then bleed the pump (see sect. 8.3).

Lubricate pivot points on load wheel frames, as needed. Do not get oil directly on load wheels.

Also lubricate pivot points on the yoke, such as the one shown in Figure 7-1.

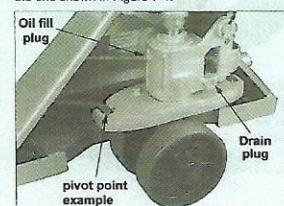


Figure 7-1

### 7.2 Cleaning relief valve

#### ("Bleeding the Pump")

Over time the relief valve assembly may become clogged with debris or develop air pockets. This can result in improper lifting, lifting only half-way, or similar symptoms.

To clean the relief valve:

1. Hold lever in raised position (fork lowering position) and pump handle quickly 10 to 12 times.
2. Move lever to lower position, and pump the handle to raise forks to fullest height.
3. Repeat if necessary.

### 7.3 Adjusting relief cam

1. Place handle lever in neutral position.
2. Loosen #424 hex nut.
3. Adjust #423 socket set screw while pumping the handle.
4. The cam is properly adjusted when pumping handle in neutral position causes no movement.
5. Re-tighten hex nut (#424) to secure the setting.

### 7.4 O-Ring and seal replacements

**IMPORTANT:** Repairs and seal ring replacements should be performed only by qualified personnel. Also, certain procedures may require specialized tools. You can locate the nearest authorized JET Service Center on our website: [www.jettools.com](http://www.jettools.com).

Numbers in parentheses refer to index numbers in the parts breakdowns, sect. 10.0.

#### 7.4.1 Ram piston and plunger piston

1. Raise the forks to maximum height by pumping handle.
2. Remove the socket head screw (#204) to release the piston assembly from the top of the frame.
3. Turn the pallet truck on its side. Remove the steer wheels and wheel shaft. Remove the Retaining Ring (#305). This will free the pump and handle assembly from the platform.
4. Turn the pallet truck upright. Remove drain plug (see Figure 7-1) and empty the oil into a suitable container. Pump handle until all oil has drained.

5. Pull out piston rod assembly (#414). If plunger piston (#401) is to be pulled out, remove handle assembly to access.
6. Remove all O-Rings & Seals.
7. Insert new O-Ring or Seal one at a time making sure to replace with the same size that was removed. (Order appropriate JET seal kit.)
8. Re-assemble.
9. Refill oil to bottom of fill hole with hydraulic jack oil. Install oil fill plug.

#### 7.4.2 Valve cartridge

1. Remove drain plug (see Figure 7-1), and empty the oil into a suitable container. Pump handle until all oil has drained.
2. Tap out roll pin (#422).
3. Remove relief cam (#421).
4. Unscrew and remove valve assembly (#418).
5. Install new valve assembly (see sect. 10.0 for part number) and tighten.
6. Install relief cam with roll pin.
7. Refill oil to bottom of fill hole with hydraulic jack oil. Install oil fill plug.

## 8.0 Troubleshooting PTJ-A Series Pallet Trucks

Any disassembly of the pallet truck should be done by qualified personnel. Contact Jet technical service if further assistance is needed.

Trouble	Probable Cause	Remedy
Hydraulic unit does not lift.	Low oil level in reservoir.	Make sure there is no oil leakage from valve, and add oil.
	Steel ball not seated in hydraulic unit.	Place the lever in the down position and pump the handle repeatedly.
	Worn seal(s) in piston cylinder.	Have seal(s) replaced.
Once lifted, truck lowers by itself.	Steel ball not seated in hydraulic unit.	Bleed the pump.
	Worn seal in piston cylinder.	Have seal(s) replaced.
	Relief valve not seated properly.	Bleed the pump.
	Relief valve not adjusted properly.	Reload truck within load capacity and adjust valve using the set screw (#721).
	Oil leakage from each valve.	Tighten plug of each valve.
Forks will not lower.	Relief cam setscrew/nut out of adjustment.	Refer to "Adjusting Relief Cam."
	Relief cam or chain element broken.	Replace affected elements.
	Broken fork rods and linkage.	Inspect linkages for breaks or cracks. Replace elements as needed.
Lever does not set at neutral position	Relief cam nut on the chain (#108B) is not positioned correctly.	Adjust the nut on the chain assembly.
Truck doesn't roll smoothly or evenly.	Wheels have debris embedded, or out of round due to wear.	Inspect and remove debris. If worn, replace wheels. NOTE: Always replace wheels in pairs.

## 9.0 Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET. Some parts are shown for reference only, and may not be available individually.