

# Operating Instructions and Parts Manual "J" Series Pallet Trucks



#### WMH TOOL GROUP

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#### WARRANTY AND SERVICE

WMH Tool Group, Inc., warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these WMH Tool Group Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET<sub>®</sub> tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

#### **MORE INFORMATION**

WMH Tool Group is consistently adding new products to the line. For complete, up-to-date product information, check with your local WMH Tool Group distributor, or visit jettools.com.

#### WARRANTY

JET products carry a limited warranty which varies in duration based upon the product (MW = Metalworking, WW = Woodworking).



#### WHAT IS COVERED?

This warranty covers any defects in workmanship or materials subject to the exceptions stated below. Cutting tools, abrasives and other consumables are excluded from warranty coverage.

#### WHO IS COVERED?

This warranty covers only the initial purchaser of the product.

#### WHAT IS THE PERIOD OF COVERAGE?

The general JET warranty lasts for the time period specified in the product literature of each product.

#### WHAT IS NOT COVERED?

Five Year Warranties do not cover woodworking (WW) products used for commercial, industrial or educational purposes. Woodworking products with Five Year Warranties that are used for commercial, industrial or education purposes revert to a One Year Warranty. This warranty does not cover defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair or alterations, or lack of maintenance.

#### **HOW TO GET SERVICE**

The product or part must be returned for examination, postage prepaid, to a location designated by us. For the name of the location nearest you, please call 1-800-274-6848.

You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will repair or replace the product, or refund the purchase price, at our option. We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible for the shipping and handling costs of the return.

#### **HOW STATE LAW APPLIES**

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

#### LIMITATIONS ON THIS WARRANTY

WMH TOOL GROUP LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

WMH TOOL GROUP SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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#### **⚠ WARNING**

- Read and understand the entire owner's manual before using the pallet 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 5,000 lbs.
- 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.
- Failure to comply with these warnings may result in personal injury and/or property damage.

#### Introduction

Congratulations on your purchase of a JET Pallet Truck.

To better understand the proper use and safe operation of this pallet truck, please take a few minutes to carefully read and follow the instructions contained in this manual. When finished reading and understanding the manual, please file in a safe and convenient location for the life of the pallet truck.

This pallet truck is designed to push and pull palletized material loads up to 5,000 pounds only.

You will notice several important features about your JET Pallet Truck. One, its 2-1/2" lowered height and tapered fork tips allow easy entry into pallets. The PT-3348J four-way pallet truck features a 2" lowered height.

The heavy-gauge steel frame is reinforced with cross-welded steel plates to prevent forks from bending and solid steel push rods are used for added strength. The pump features top-of-the-stroke and overload by-pass valve systems. A durable powder coat finish provides long lasting steel protection.

Extra wide polyurethane covered steel steer wheels and nylon load wheels feature lifetime lubricated, double sealed bearings to provide smooth, quiet rolling and added stability.

Your JET Pallet Truck is truly one of the finest pallet trucks in the world.

#### **Record Your Purchase Information Here**

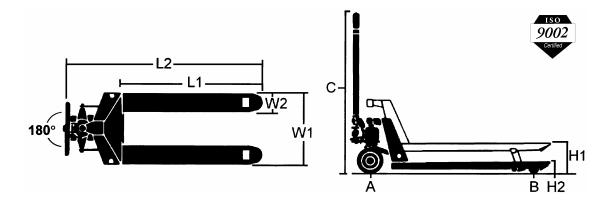
Purchased from:	Date:
Model Number:	Stock Number:
Serial Number:	Date in Service:

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#### **Specifications**

Model #	Stock #	W1	W2	L1	L2	H1	H2	A (dxw)	B (dxw)	С	Net Wt. lbs.
PT-1636J	140016	16"	6"	36"	51"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	135
PT-2036J	140085	20 1/2"	6"	36"	51"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	150
PT-2042J	140084	20 1/2"	6"	42"	57"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	161
PT-2048J	140083	20 1/2"	6"	48"	63"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	172
PT-2736J	140082	27"	6"	36"	51"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	174
PT-2742J	140081	27"	6"	42"	57"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	185
PT-2748J	140080	27"	6"	48"	63"	6-1/4"	2-1/2"	6-1/4"x2-3/4"	2-1/2"x3-3/4"	45-1/8"	196
PT-3348J	140033	33"	6"	48"	63"	6"	2"	6-1/4"x2-3/4"	2"x3-3/4"	45-1/8"	216



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

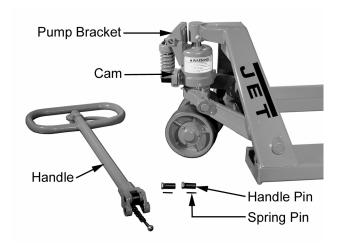
#### **Assembly**

**Note:** Individual trucks are assembled and ready to use. Pallet trucks purchased in crate quantities (6 units to a crate) require some assembly. Match the "number" label on the handle to the "number" label on the frame, prior to assembly.

Tools Needed for Assembly

- Hammer
- Flat Head Screwdriver
- Pliers or 17mm Wrench
- 1. Insert the base of the handle (A, Fig. 1) into the pump bracket (B, Fig. 1).
- 2. Align the holes (C, Fig. 1) at the base of the handle with the holes in the pump bracket.
- 3. Using a screwdriver, pry the cam (D, Fig. 1) up and slip the bolt head, under the notch in the cam. **Do not adjust the nut.**

- Insert handle pins (E, Fig. 2) into the holes of the pump bracket and handle. Align the spring pin holes (F, Fig. 2) in the handle pin and the pump bracket.
- 5. Tap the handle pins into place with a hammer.



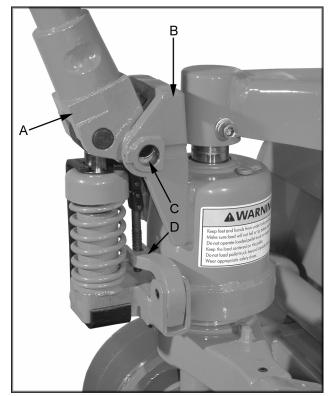


Fig. 1



Fig. 2

- Using a hammer, tap the spring pins (A, Fig. 3) into the pump bracket and handle pins.
   Note: If the holes aren't lined up use a 17mm wrench or pliers to turn the handle pin until the spring pin holes line up.
- 7. Repeat for the opposite side handle pin.
- 8. Pull the handle down and remove the retaining bracket (B, Fig. 3) by pulling straight out. Discard retaining bracket.

**Note:** If the pallet truck does not raise, or lower properly you may have air bubbles in the pump from shipping. Refer to "Bleed the Pump" on page 7.

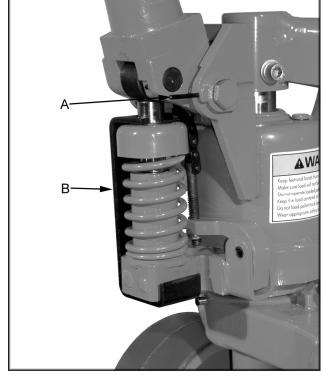


Fig. 3

#### **Pallet Truck Operation**

To raise the forks, place handle in the UP position (bottom part of the handle slot), see Fig. 4.

To lower forks, pull lever handle to DOWN position (upper part of the slot).

To freely move the handle, set the lever in Neutral (center notch of slot).

#### To Lift a Load

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

#### To Move a Load

- 1. Place lever in NEUTRAL position (center notch of slot), Figure 4.
- 2. Pull or push pallet truck to desired location.

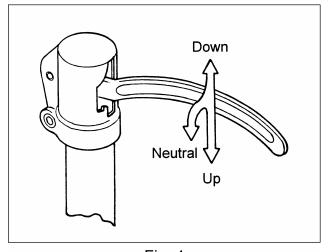


Fig. 4

#### To Lower a Load

- 1. Pull lever to the DOWN position (upper part of slot), Figure 5.
- 2. Pull forks away from load.

#### **Up-Down Cam Adjustment**

- 1. Set the lever in the NEUTRAL position, Figure 5.
- 2. Turn the cam nut while pumping the handle, Figure 6.
- When lifting stops, give the nut one more turn.
- The cam nut is properly adjusted when pumping the handle in the NEUTRAL position causes no movement of the hydraulic ram.

### Cleaning the Release Valve (Bleed the Pump)

Over time, the hydraulic pump assembly may become clogged with debris, air bubbles, and not function properly.

To clean the release valve and bleed the pump:

- 1. Pump handle quickly, raising pallet truck to full extent. While continuing pumping action, pull lever to down position.
- 2. When forks reach total down position, valve is flushed. Repeat if necessary.

#### Lubrication

Check the oil level annually by removing the oil plug found on the top of the pump housing. When changing or adding oil, fill the tank through the oil plug screw hole to 80% capacity with hydraulic jack oil, about 2" deep in pump housing, see Figure 7. **Do not** use any other type of oil.

There is one grease fitting (#55B in the breakdown) located on the table. Lubricate this point on a semi-annual basis.

Wheel bearings are sealed and require no lubrication. Crank Shaft features oil light bushings that also require no lubrication.

Lightly oil all moving parts.

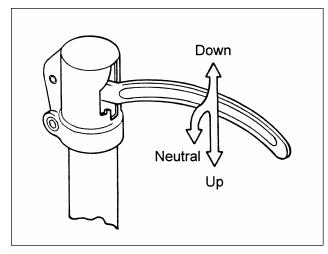


Fig. 5

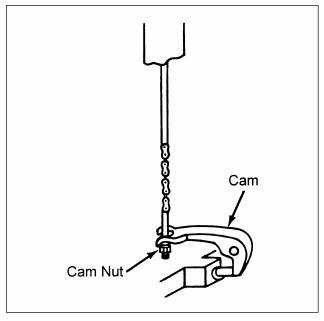


Fig. 6

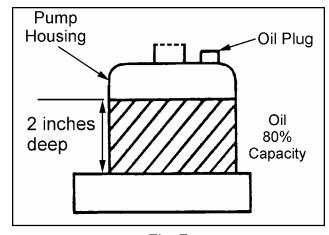


Fig. 7

## **Seal and O-Ring Replacement for Piston and Plunger Piston**

- 1. Raise the pallet truck by pumping handle.
- 2. Remove the bolts #70. This will free the pump and handle assembly from the pallet truck.
- 3. Empty the oil into a suitable container. Pump handle until all oil has drained. Dispose of used hydraulic oil, or fluid according to local disposal regulations.
- 4. Pull out piston plunger #33, and/or ram piston #25.
- 5. Remove all o-rings and seals, see Figure 8.
- 6. Insert new o-ring or seal one at a time making sure to replace with the same size that was removed.
- 7. Reassemble and fill the oil tank through the oil plug screw hole to 80% capacity with new hydraulic jack oil, about 2" deep in pump housing, see Figure 7.

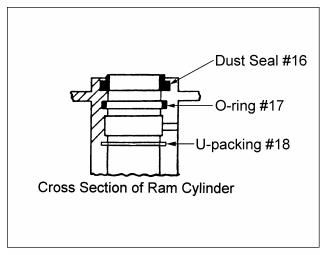
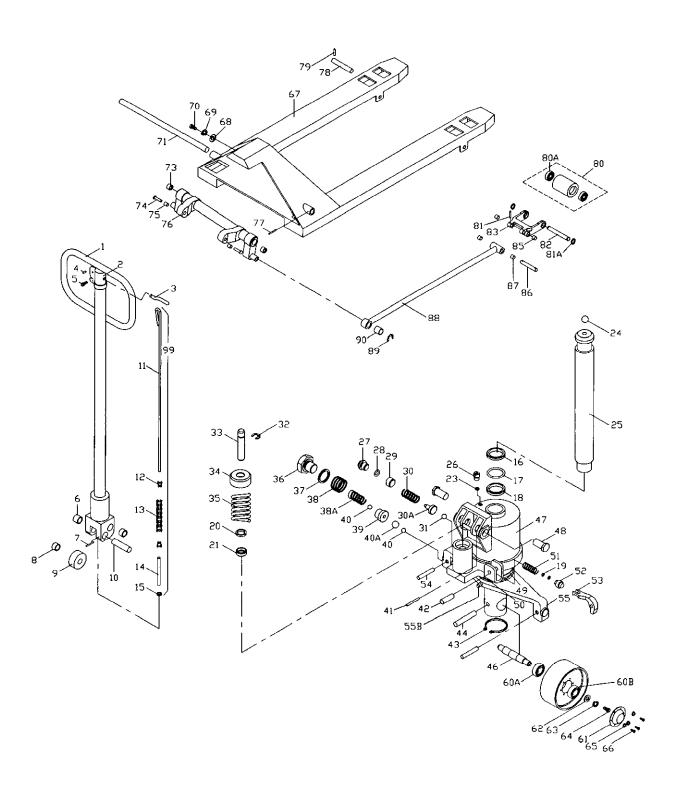


Fig. 8

### Troubleshooting

Condition	Probable Causes	Corrective Action
	1. Oil low in tank.	Make sure there is no oil leakage from Release Plug #36 or Pressure Adjustment Screw #27, and add oil.
Hydraulic unit does not lift.	<ol> <li>Air in pump.</li> <li>Worn O-ring in ram cylinder.</li> </ol>	Place the lever in the down position and pump the handle repeatedly.
		Consult authorized repair station.
		See "Cleaning the Release Valve" page 7.
	Steel ball not seated in hydraulic unit.	Consult authorized repair station.
	2. Worn O-ring in ram cylinder.	3. See "Cleaning the Release Valve" page 7.
Once lifted, truck lowers by itself.	<ul><li>3. Release valve not seated properly.</li><li>4. Release valve not adjusted properly.</li></ul>	4. Reload truck within load capacity, and adjust valve by Pressure Adjustment Screw #27.
	5. Oil leakage from Release Plug #36 or Pressure Adjustment Screw #27.	5. Tighten Release Plug #36. Replace O-rings on Release Plug #36 and/or Pressure Adjustment Screw #27. Consult authorized repair station.
	1. Cam #53 broken.	1. Replace cam #53.
Fork does not lower.	Up-down cam nut #15 out of adjustment.	Refer to "Adjusting Up-Down Cam" page 7.
	Broken fork rods and linkage.	Consult authorized repair station, or replace broken parts.
Lever does not set at NEUTRAL position.	Up-down cam nut out of adjustment.	Refer to "Adjusting Up- Down Cam" page 7.

### Parts Breakdown for the "J" Series Pallet Trucks



#### Parts List for the "J" Series Pallet Trucks

Index No.	Part No.	Description	Size	Qty.
1	PT27/8A_001	Handle		1
		Handle Cap		
		Lever		
		Spring Pin		
		Bolt		
		Oil Lite Bushing		
		Spring Pin		
		Oil Lite Bushing		
		Roller		
		Roller Pin		
		Release Rod		
		Chain Joint		
		Chain		
		Anchor Bolt		
		V-Nut		
		Dust Seal *		
		O-Ring *		
		U-Packing *		
		O-Ring *		
		Dust Seal *		
		U-Packing *		
		O-Ring *		
		Steel Ball		
		Ram Piston (all models except PT-3348J)		
		Ram Piston (PT-3348J Only)		
		Oil Plug		
		Pressure Adjust Screw		
		O-Ring *		
		Release Screw		
		Spring		
		Valve		
31	SB-6MM	Steel Ball	6mm	1
		E-Ring		
33	PT2748L-033	Plunger Piston		1
34	PT2748A-034	Spring Cap		1
35	PT2748A-035	Spring	38x5x112.5mm .	1
		Release Plug		
37	PT2748A-037	Washer	20mm	1
38	PT2748A-038	Spring	8x1.5x12.8mm	1
		Spring		
		Valve Housing		
		Steel Ball		
		Steel Ball		
		Spring Pin		
		Spring Pin		
		Snap Ring		
		Spring Pin		
		Wheel Shaft <i>(all models except PT-1636J)</i>		
		Wheel Shaft (PT-1636J Only)		
		Pump Housing Assembly (all models except P		
		Pump Housing Assembly ( <i>all Models except F</i> Pump Housing Assembly ( <i>PT-1636J Only</i> )		
		Pump Housing Assembly ( <i>PT-1636J Only)</i> Pump Housing Assembly ( <i>PT-3348J Only</i> )		
	୮ เ	rump nousing Assembly (F1-3340J Only)		1

Index	Part			
No.	No.	Description	Size	Qty.
48	PT2748A-048	Handle Pin		2
49	PT2748A-049	Bearing Base		1
		Ball Bearing		
		Spring		
		Release Nozzle		
		Cam		
		. Spring Pin		
		Table (all models except PT-1636J & PT-334		
		Table ( <i>PT-1636J Only</i> )		
		Table ( <i>PT-3348J Only</i> )		
		Grease Fitting		
		Steer Wheel Assembly W/Bearings		
		Steer Wheel Ball Bearing		
		Steer Wheel Ball Bearing		
		Cap		
		. Washer		
		Lock Washer		
		Bolt		
		Lock Washer		
		Bolt		
		. Fork Frame (N/A)		
		Washer		
		Lock Washer		
		Socket Head Cap Screw		
		Crank Shaft (PT-2736J / PT-2742J / PT-2748		
		Crank Shaft (PT-2036J / PT-2042J / PT-2048		
		Crank Shaft (PT-1636J Only)		
		Crank Shaft (PT-3348J Only)		
		Oil Lite Bushing		
		Table Pin		
		. Oil Lite Bushing		
		Lifting Yoke (PT-2736J / PT-2742J / PT-2748		
		Lifting Yoke (PT-2036J / PT-2042J / PT-2048	,	
		Lifting Yoke (PT-1636J Only)		
		Lifting Yoke (PT-3348J Only)		
		Spring Pin (all models except PT-3348J)		
		Spring Pin (PT-3348J Only)		
		Arm Pin (all models except PT-3348J)		
		Arm Pin <i>(PT-3348J Only)</i>		
79	PT2748J-079	Spring Pin	. 5x25mm	2
		Black Nylon Load Wheel W/Bearings (all mod		
		Steel Load Wheel W/Bearings (PT-3348J On		
80A	BB-6004VV	Load Wheel Bearing (all models except PT-3	348J)6004	4
	BB-6203LS	Load Wheel Bearing (PT-3348J Only)	. 6203	4
81	PT2748J-081	Spring Pin	.5x30mm	2
		Snap-Ring (all models except PT-3348J)		
		Snap Ring <i>(PT-3348J Only)</i>		
		Load Wheel Axle (all models except PT-3348		
		Load Wheel Axle (PT-3348J Only)		
		Arm (all models except PT-3348J)		
		Arm ( <i>PT-3348J Only</i> )		
		•		

Index	Part			
No.	No.	Description	Size	Qty.
85	PT2748J-085	. Oil Lite Bushing <i>(all models except PT-</i> 3348J)	4	
	PT3348J-085	Oil Lite Bushing (PT-3348J Only)		4
86	PT2748J-086	Rod Pin (all models except PT-3348J)		2
		Rod Pin (PT-3348J Only)		
87	PT2748J-087	. Oil Lite Bushing (all models except PT-3348J)	4	
	PT3348J-087	Oil Lite Bushing (PT-3348J Only)		4
88	PT2736J-088	Rod (PT-1636J / PT-2036J / 2736J)		2
	PT2742J-088	Rod (PT-2042J / PT-2742J)		2
	PT2748J-088	Rod ( <i>PT-2048J / PT-2748J</i> )		2
	PT3348J-088	Rod (PT-3348J Only)		2
89	PT2748A-089	E-Ring	. 37	2
90	PT2748A-090	Bushing		2
		Release Rod Assembly		
	PT2748J-101A	Repair Kit (includes index # 16-23, 28)		1
	PT2748J-109	Pump Assembly (all models except PT-1636J	' & PT-3348J)	1
	PT1636J-109	Pump Assembly (PT-1636J Only)		1
	PT3348J-109	Pump Assembly (PT-3348J Only)		1
	PT2748J-110	Pump, Handle, Wheel Assy (all models excep	t PT-1636J& PT-3	348J)
	PT1636J-110	Pump, Handle, Wheel Assembly (PT-1636J C	Only)	1
	PT3348J-110	Pump, Handle, Wheel Assembly (PT-3348J C	Only)	1
	MP-012	Touch-Up Paint (not shown)		1
	PT1636J-ID	I.D. Label (not shown)		1
	PT2036J-ID	I.D. Label (not shown)		1
		I.D. Label (not shown)		
		I.D. Label (not shown)		
		I.D. Label (not shown)		
	PT2742J-ID	I.D. Label (not shown)		1
		I.D. Label (not shown)		
	PT3348J-ID	I.D. Label (not shown)		1
		JET Logo Label (not shown)		
	PT2748J-WL	Warning Label (not shown)		1
	PT2748J-PL	Pump Label (not shown)		1

<sup>\*</sup> Available only in the repair kit – PT2748J-101A

### **NOTES**



### **TEST CERTIFICATE**

COMMODITY	Pallet Truck	
MODEL	PT-	J
SERIAL NO.		
CAPACITY	5,0	000 lbs
TEST LOAD	5,0	000 lbs
DATE OF INSPECTION		
JUDGEMENT	PAS	SED
INSPECTOR		



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