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

Operating Instructions and Parts Manual
JTX-2748B Pallet Truck

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Part No. M-141800
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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.

2.0 Table of contents

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3.0 Introduction

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

The 3.25 inch lowered height, tapered fork tips and wide polyurethane entry/exit rollers combine for easy entry and exit of pallets. The 210° 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.

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

⚠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 mail-in card provided or register online: www.jettools.com/product-registration

To quickly reach the product registration webpage, scan the QR code below.

4.0 **Specifications**

Table 1

Model number			**JTX-2748B**
Stock number			141800
Load Capacity			8,000 lbs. (3629 kg)
Turning Radius			210 deg.
Overall Fork Length		L1	48 in. (1220mm)
Overall Forks Width			27 in. (685 mm)
Fork Width		W2	6-1/4 in. (160 mm)
Lowered Height		H2	3.25 in. (85 mm)
Maximum Height		H1	7-7/8 in. (200 mm)
Number of Strokes to Reach Maximum Height			13
Force Required to Pump at Maximum Load			120 lbs. (54.5 kg)
Steer Wheel Size (Dia. x W)		A	7-7/8 x 2 in. (200x 50 mm)
Load Wheel Size (Dia. x W)		B	3-1/8 x 3-11/16 in. (80 x 93 mm)
Force Required to Move Maximum Load			220 lbs. (100 kg)
Overall Height		C	48 in. (1220 mm)
Overall Length		L2	63 in. (1600 mm)
Overall Width		W1	27 in. (685 mm)
Net Weight			228 lbs. (103 kg)
Gross Weight			235 lbs. (106 kg)
Pump Type			Integrated
Materials	Pump Housing		Cast iron
	Forks		Sheet steel, 9 ga. (4mm)
	Chassis		Sheet steel, 7 ga. (5mm)
	Wheels		Polyurethane

The above specifications 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.

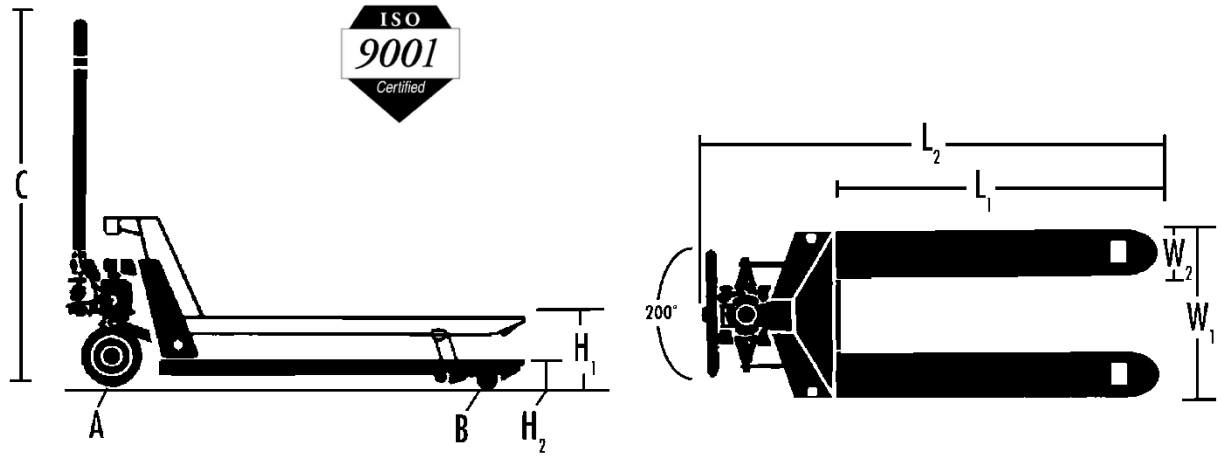


Figure 4-1

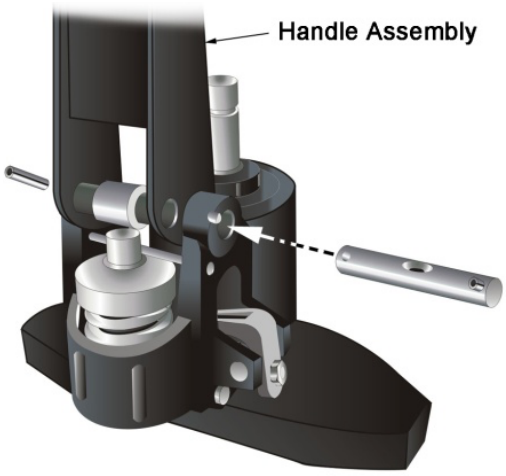
5.0 **Assembly** (for crate quantity purchases only)

Note: The following illustrations may not show your exact model.

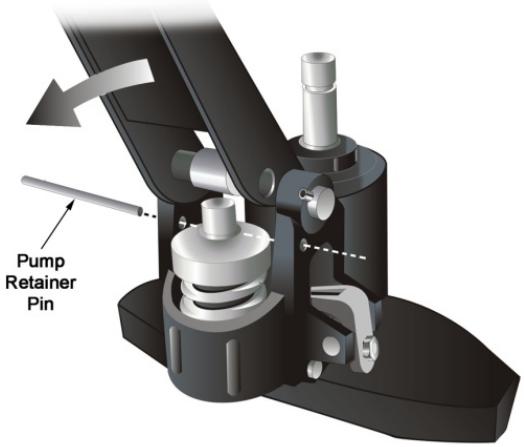
Individual pallet trucks are assembled and ready to use. Pallet trucks purchased in crate quantities (6 units to a crate) require some assembly. A hammer and pliers are required. *Match the "letter" label on the handle assembly to the "letter" label on the frame, prior to assembly.*

To attach handle assembly to the frame:

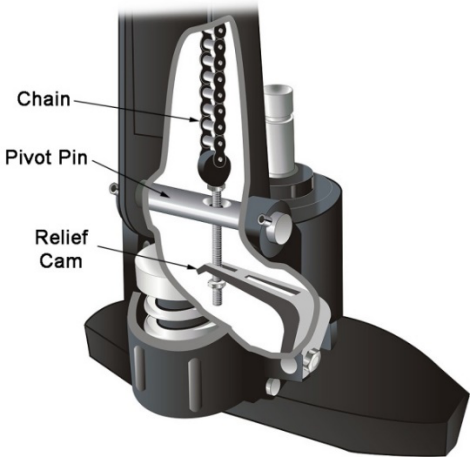
1. Align the holes in the handle with the holes in the pump body. Tap the pivot pin through the handle and pump bodies.
2. Using pliers, turn the pivot pin until spring pin holes line up.
3. Using a hammer, tap the spring pin into the pump body and pivot pin.



4. Lower the handle until the spring cap is contacted. (This will reduce some of the pressure on the pump retainer pin, making it easier to remove.)
5. Tap out the pump retainer pin and discard it.



6. Feed the chain anchor through the hole in the pivot pin.
7. Position the chain anchor through the fork of the relief cam, with the lock nut below the fork.



6.0 **Operation**

To lift a load:

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

To move a load:

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

To lower a load:

- Pull lever up, and allow load to settle. (The lever is spring loaded and will return to neutral position when released.)
- 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.

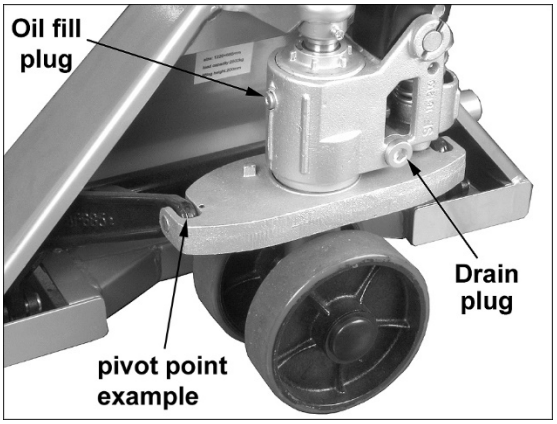


Figure 7-1

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:

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

7.3 **Adjusting relief cam**

- Place handle lever in neutral position.
- Loosen #52 hex nut.
- Adjust #51 socket set screw while pumping the handle.
- The cam is properly adjusted when pumping handle in neutral position causes no movement.
- Re-tighten hex nut (#52) 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.*

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

7.4.1 **Ram piston and plunger piston**

- Raise the forks to maximum height by pumping handle.
- Remove the socket head screw (#56) to release the piston assembly from the top of the frame.
- Turn the pallet truck on its side. Remove the steer wheels and wheel shaft. Remove the Retaining Ring (#48). This will free the pump and handle assembly from the platform.
- 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.

- Pull out piston rod assembly (#31). If plunger piston (#24) is to be pulled out, remove handle assembly to access.
- Remove all O-Rings & Seals.
- 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.)
- Re-assemble.
- Refill oil to bottom of fill hole with hydraulic jack oil. Install oil fill plug.

7.4.2 **Valve cartridge**

- Remove drain plug (see Figure 7-1), and empty the oil into a suitable container. Pump handle until all oil has drained.
- Tap out roll pin (#54).
- Remove relief cam (#53).
- Unscrew and remove valve assembly (#38).
- Install new valve assembly (see sect. 10.0 for part number) and tighten.
- Install relief cam with roll pin.
- Refill oil to bottom of fill hole with hydraulic jack oil. Install oil fill plug.

8.0 **Troubleshooting JTX-B Series Pallet Trucks**

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

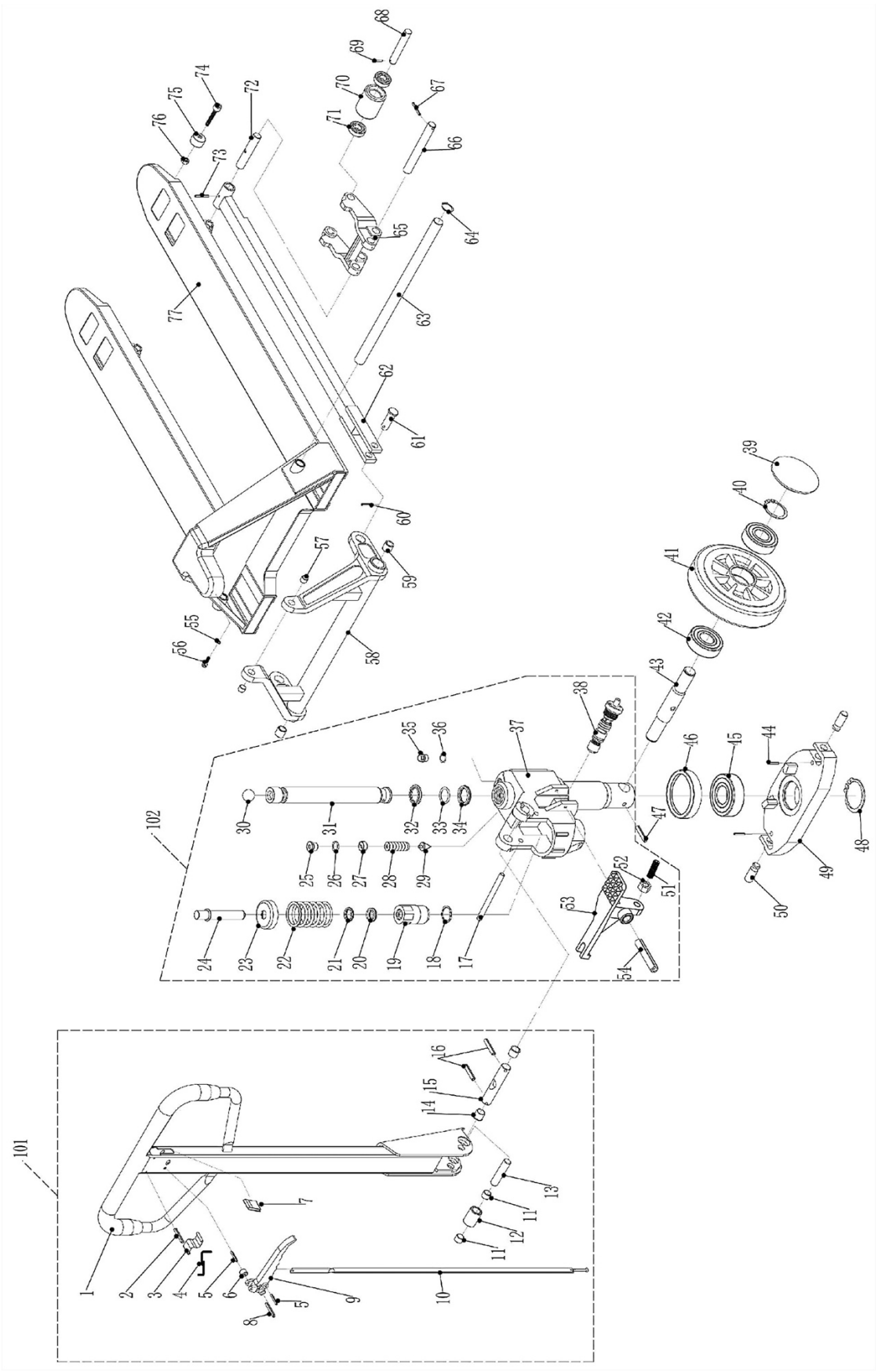
Trouble	Probable Cause	Remedy
Hydraulic unit does not lift.	Low oil level in reservoir.	Make sure there is no oil leakage from valve, and add oil.
	Steel ball not seated in hydraulic unit.	Place the lever in the down position and pump the handle repeatedly.
	Worn seal(s) in piston cylinder.	Have seal(s) 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 (#51).
	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 (#10) 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.

10.1 **JTX-B Pallet Truck – Exploded View**



10.2 **JTX-B Pallet Truck – Parts List**

Index No.	Part No.	Description	Size	Qty
1	JT9-PTWB001	Handle Body		1
2	WL9-F012073	Roll Pin	Ø4x30mm	1
3	JT9-PTWB003	Block Spring		1
4	JT9-PTWB004	Spring		1
5	JT9-F012071	Roll Pin	Ø4x16mm	1
6	JT9-PTWB006	Roller		1
7	JT9-PTWB007	Plastic mat		1
8	JT9-F012079	Roll Pin	Ø6x30mm	1
9	JT9-PTWB009	Control Lever		1
10	JT9-PTWB010	Release Rod		1
11	JT9-PTWB011	Oil Lite Bushing	Ø15xØ17x17mm	2
12	JT9-PTWB011-1	Roller	Ø25x36mm	1
13	JT9-PTWB013	Roller Pin	Ø15x60mm	1
14	JT9-PTWB014	Oil Lite Bushing	Ø20xØ22x16mm	2
15	WL9-PTWB015	Handle Pin	Ø20x100mm	1
16	JT9-F012076	Roll Pin	Ø5x30mm	2
17	JT9-PTWB017	Pump Retainer Pin	Ø8x100mm	1
18	JT9-PTWB018	Washer	Ø28xØ20x1.5mm	1
19	JT9-PTWB019	Plunger Housing		1
20	JT9-PTWB020	U-Packing*	Ø26xØ18x5mm	1
21	JT9-PTWB021	Dust Seal Ring*	Ø26xØ18x6mm	1
22	JT9-PTWB022	Spring		1
23	JT9-PTWB023	Spring Cap		1
24	JT9-PTWB024	Plunger Piston	Ø18x107mm	1
25	JT9-PTWB025	Pressure Adjust Screw		1
26	JT9-PTWB026	O-Ring	11.8x2.65mm	1
27	JT9-PTWB027	Release Screw		1
28	JT9-PTWB028	Spring		1
29	JT9-PTWB029	Needle Valve		1
30	JT9-SB-18MM	Steel Ball	18mm	1
31	JT9-PTWB031	Ram Piston	Ø35x277mm	1
32	JT9-PTWB032	Dust Seal Ring*	Ø35xØ43x6.5mm	1
33	JT9-PTWB033	O-Ring*	34.5x3.55mm	1
34	JT9-PTWB034	U-Packing*	Ø35xØ45x6mm	1
35	JT9-PTWB035	Oil Plug		1
36	JT9-PTWB036	Oil Seal		1
37	JT9-PTWB037	Pump Housing		1
38	JT9-PTWB038	Valve Assembly		1
39	JT9-PTWB039	Dust Seal Cap		2
40	JT9-F006047	C-Retaining Ring	Ext 20mm	2
41	JT9-JTXB001	Steering Wheel PU	Ø200x50mm	2
42	CM9-BB-6204	Ball Bearing	6204	4
43	JT9-PTWB043	Wheel Shaft	Ø25x177mm	1
44	JT9-F012076	Roll Pin	Ø5x30mm	2
45	JT9-BB-51111	Ball Bearing	51111	1
46	JT9-PTWB046	Bearing Base		1
47	CM9-F012108	Roll Pin	Ø8x45mm	1
48	**	C-Retaining Ring	Ext 52mm	1
49	JT9-PTWB049	Table		1
50	JT9-PTWB050	Table Pin	Ø16x43mm	2
51	JT9-PTWB051	Slotted Set Screw	M8x20mm	1
52	JT9-TS-1540061	Hex Nut	M8	1
53	JT9-PTWB053	Cam		1
54	JT9-F012109	Spring Pin	Ø8x55mm	1
55	JT9-PTWB055	Washer	M6	1
56	JT9-F005670	Socket Head Cap Screw	M6x14mm	1

Index No.	Part No.	Description	Size	Qty
57	JT9-PTWB057	Oil Lite Bushing	Ø18xØ16x15mm	2
58	JT9-JTXB002	Lifting Yoke for 685mm/27in		1
59	JT9-JTXB003	Oil Lite Bushing	Ø30xØ25x25mm	2
60	JT9-F012076	Roll Pin	Ø5x30mm	2
61	JT9-JTXB005	Crank Pin		2
62	JT9-JTXB006	Push Rod for 1220/48in		2
63	JT9-JTXB007	Crank Shaft for 685mm/27in		1
64	JT9-F006050	C-Retaining Ring	Ext 25mm	2
65	JT9-JTXB008	Load Wheel Frame		2
66	JT9-JTXB009	Arm Pin		2
67	JT9-F012076	Roll Pin	Ø5x30mm	2
68	JT9-JTXB010	Load Wheel Axle		2
69	JT9-F012110	Roll Pin	Ø5x35mm	2
70	JT9-JTXB011	Load Wheel PU	Ø80x93mm	2
71	CM9-BB-6204	Ball Bearing	6204	4
72	JT9-JTXB012	Rod Pin		2
73	JT9-F012076	Roll Pin	Ø5x30mm	2
74	JT9-PTWB077	Socket Head Cap Screw	M10x55mm	2
75	JT9-PTWB078	Guide Roller	Ø50x35mm	2
76	JT9-TS-1540071	Hex Nut	M10	2
77	JT9-JTXB014	Fork		1
101	JT9-PTWB101	Handle Body Assembly		1
102	JT9-PTWB102	Pump Assembly		1
	JT9-LM000413	Warning Label (not shown)		1
	JT9-JTX2748B-ID	I.D. Label, JTX-2748B (not shown)		1
	JT9-JTX2748B-SL	Specification Label, JTX-2748B (not shown)		1
	JT9-LM000414	JET Logo Label (not shown)		1
	JT9-LM000415	Label – Pallet Truck Instruction (not shown)		1
	JT9-LM000416	Label – Release Valve Cleaning (not shown)		1
	JT9-PTWB-SK	Seal Kit (includes items marked with *)		

** These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

10.0 **Warranty and Service**

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period
The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered
This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered
This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

How to Get Technical Support
Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information
JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies
This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty
JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
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Product Listing with Warranty Period

90 Days – Parts; Consumable items; Light-Duty Air Tools
1 Year – Motors; Machine Accessories; Heavy-Duty Air Tools; Pro-Duty Air Tools
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories;
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock Products; Hand Tools

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.