

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

# RWM Hydraulic Pallet Truck

## Description

RWM hydraulic pallet truck is a manually operated industrial duty product designed to lift a maximum weight of 6,600 pounds by using a minimum number of handle strokes.



Safety features include an overload bypass valve and a pressure compensated flow valve for controlled lowering. A hand-actuated control lever for selecting "raise," "neutral," and "lower" positions is standard.

Failure to follow the proper operating instructions could result in injury and void the warranty.

## Dimensions

<b>Load Capacity</b>	<b>6,600 lbs.</b>
<b>Lowered Height of Forks</b>	<b>2.75"</b>
<b>Raised Height</b>	<b>7.5"</b>
<b>Overall Width Across Forks</b>	<b>27"</b>
<b>Fork Width</b>	<b>6"</b>
<b>Fork Length</b>	<b>48"</b>
<b>Weight</b>	<b>195 lbs.</b>

## Specifications

Up/Down Control	Hand Actuated
Steering Wheels	Nylon
Push Rods	Solid Steel Construction
Forks	6" Heavy Duty Steel
Steering Radius	180°
Handle Return	Automatic Return to Vertical

## Unpacking

After receiving the pallet truck, visually inspect the frame components and hydraulic unit for damage. If damage is evident, notify delivering carrier immediately and file necessary claims.

position and feed the valve adjustment rod and chain through the hole in the axle.

5. Firmly press the steering handle down and remove the pin.

## Assembly

Tools required: hammer, spanner and pliers

1. From behind the truck, mount the steering handle directly above the pump piston.
2. Gently tap the handle until the axle holes and handle bar holes are aligned.
3. Slide the axle through the axle holes and steering handle.
4. Set the controls to the "Lower"

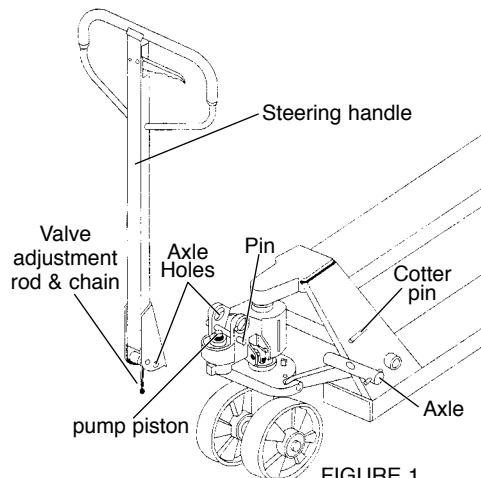


FIGURE 1

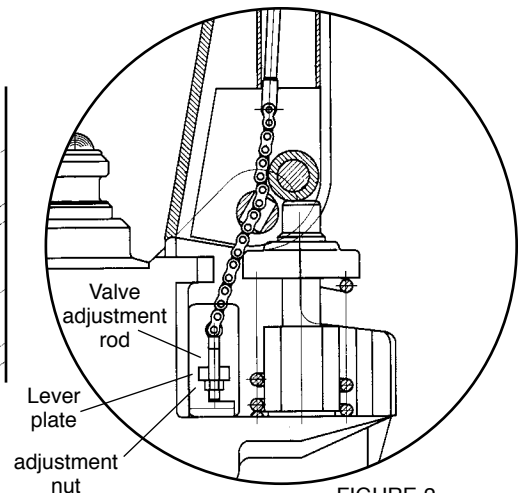


FIGURE 2

- Set the controls to the "Raise" position and raise the lever plate. Secure the valve adjustment rod into the lever plate. Make sure the adjustment nut remains under the lever plate.
- Reinsert the pin.
- Using the hammer, tap the cotter pin into the axle.

## General Safety Information

In order to have a trouble free pallet truck, it is important to take caution during usage to ensure a long service life.

- Inspect the pallet truck for transit damage before operation. Carefully read all manuals included with this product before putting into service. Be thoroughly familiar with the controls and the proper use of the pallet truck.
- Never overload the pallet truck. Stay within the rated capacity of 6,600 lbs.
- Distribute the load evenly on the forks—do not concentrate loads at one point, or load one fork more than the other.
- Be especially cautious when using the pallet truck to move or set machinery. It is very easy to make the mistake of lifting at points that will develop concentrated or unbalanced loads that can damage the pallet truck.
- Do not allow loaded pallet truck to drop from one floor level to another. Even a drop of one inch, more than doubles the effective load momentarily and results in a "SHOCK" which can bend or break components.
- The main thrust bearing has a zerk fitting to be greased every 60 days. All other bushings and bearings are of the pre-lubricated type and will last for a long period of time without further lubrication.
- The pump piston rod and lifting rams are polished with a hardened chrome-plated finish to provide maximum seal life and minimum oil leakage. Do not allow these surfaces to be nicked or pitted by abuse. A slight oil wetting of the external part of the pistons is normal in this as in all hydraulic systems in order to provide lubrication for highly polished surfaces and seals through which they pass. Do not be alarmed at a trace of oil, even on new units.
- Always remove load before making repairs. Completely immobilize pallet truck before working on components

that might pinch fingers or hands if movement were allowed.

- Never allow anyone to ride a pallet truck "scooter style." All heavy material handling equipment should be operated with the utmost regard for the safety of oneself and others.
- Never leave a loaded pallet truck unattended.
- Always lower forks when trucking is completed.
- Avoid abrasive or corrosive environments and/or movement of abrasive or corrosive materials which may tend to spill onto pallet truck parts.

## Operation

The three position control lever is operated as follows: (See Figure 3).

### TO RAISE:

Insert the forks into the pallet. Move the control lever down into RAISE position. With an up/down motion, pump the pallet jack up to desired height.

### NEUTRAL:

When finished raising the pallet truck, move control lever into NEUTRAL or center position. Move the pallet truck to desired location.

### TO LOWER:

Move the control lever up into the LOWER position until desired height has been reached.

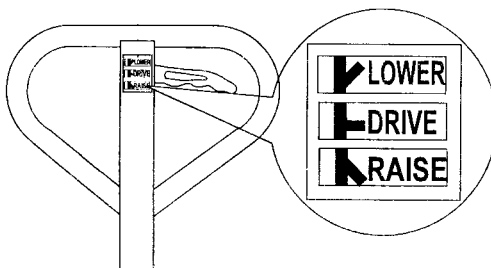


FIGURE 3

## Maintenance

### DAILY

Visually check and do not use if any of the following are visible:

- Oil leaks.
- Structural deformation of arms, forks or any other component.
- Unusual noise or binding of the lifting mechanism.

### MONTHLY

- Apply a few drops of machine oil to all bushings and bearings.
- Check snap rings.
- Verify that all labels are in place and in good condition.
- Clean off dirt and debris.

### SIX MONTHS

- Check oil level (more frequently for high use applications).
- Check hydraulic oil levels. It should be: ISO VG32, viscosity should be 32cSt at 40° C, total volume around 0.4 lt.

**NOTE:** If hydraulic oil is milky white in color, water is in the hydraulic system. Change the hydraulic oil immediately.

### ADDING HYDRAULIC OIL TO PUMP RESERVOIR



Use ISO VG32 hydraulic oil.

- Ensure forks are in lowered position.
- Remove hydraulic oil reservoir plug
- Add hydraulic oil until level of oil is at bottom of fill hole.
- Replace hydraulic oil reservoir plug.

### LIMITED WARRANTY

RWM offers the following warranty for our non-powered material handling products, including our pallet trucks, platform carts, aluminum hand-trucks:

RWM warrants our non-powered material handling products against defects in material and workmanship, for one year from the date of shipment to the customer.

RWM will replace any product not functioning as designed for its intended use and/or purpose.

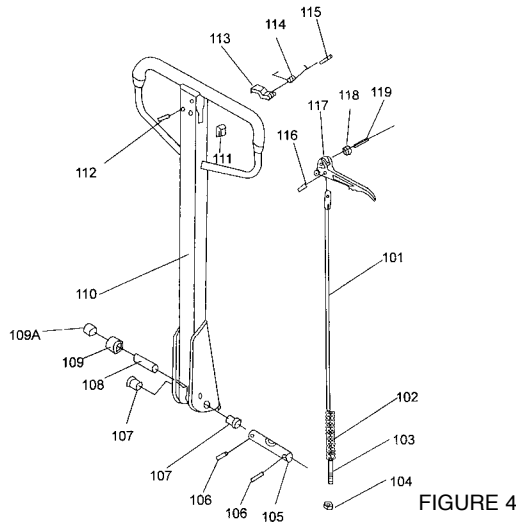
Replacement product will be shipped to either our distributor or directly to the end user. Replacement units will be shipped freight prepaid.

All suspect units must be returned to RWM. RWM will bear the cost of the returned freight charges. A written return authorization must be approved by RWM prior to returning the suspect product.

Customers will be billed for replacement units should the suspect unit not be returned to RWM within 30 days of receipt of the replacement units.

All warranty claims should be directed to a RWM customer service representative. Customer service can be reached by phone at 704-866-8533 or by fax at 704-868-4205. The customer service department can also be reached through the company website at [www.rwmcasters.com](http://www.rwmcasters.com).

# STEERING BAR ASSEMBLY



NO.	DESCRIPTION	QTY
101	Release Rod	1
102	Chain	1
103	Adjusting Bolt	1
104	Adjusting Bolt	1
105	Axle with Hole	1
106	Elastic Pin	2
107	Bushing	2
108	Roller Pin	1
109	Pressure Roller	1
109A	Bushing	1

NO.	DESCRIPTION	QTY
110	Draw-bar	1
111	Stop Rubber	1
112	Elastic Pin	1
113	Blade Spring	1
114	Spring	1
115	Elastic Pin	1
116	Elastic Pin	1
117	Control Handle	1
118	Roller	1
119	Elastic Pin	1

FIGURE 4

# FORK FRAME ASSEMBLY

NO.	DESCRIPTION	QTY
201	Fork Frame	1
202	Elastic Pin	1
203	Rock-Arm	1

NO.	DESCRIPTION	QTY
204	Bushing	1
205	Shaft	1
206	Bushing	2

NO.	DESCRIPTION	QTY
207	Bushing	2
208	Retaining Ring	2
209	Joint	2
210	Pin	2
211	Nut	2
212	Pushing Rod	2
213	Retaining Ring	2
214	Shaft	1
215	Bushing	4
216	Shaft	2
217	Intermediate Roller	4
218	Extending Roller	2
219	Elastic Pin	2
220	Elastic Pin	4
221	Shaft	2
222	Frame of Roller	2
226	Bearing	4
231	Bolt	2
232	Enter Roller	2
233	Locking Nut	2
234	Roller	2
235	Shaft for Roller	2
236	Elastic Pin	2

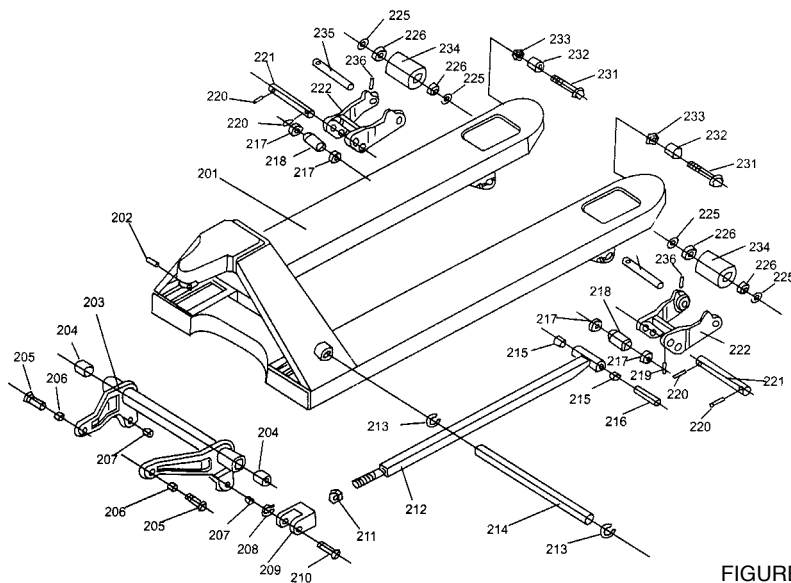


FIGURE 5

# VALVE CARTRIDGE ASSEMBLY NO. 321 FROM HYDRAULIC PUMP ASSEMBLY

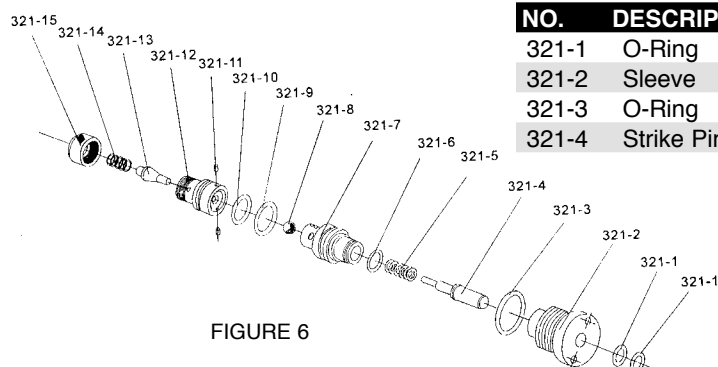


FIGURE 6

NO.	DESCRIPTION	QTY
321-1	O-Ring	2
321-2	Sleeve	1
321-3	O-Ring	1
321-4	Strike Pin	1

NO.	DESCRIPTION	QTY
321-5	Spring	1
321-6	O-Ring	1
321-7	Seat of Ball	1
321-8	Steel Ball	1
321-9	O-Ring	1
321-10	O-Ring	1
321-11	Pin	2
321-12	Seat of Valve	1
321-13	Spindle of Pump Valve	1
321-14	Spring	1
321-15	Cap	1

# HYDRAULIC PUMP ASSEMBLY

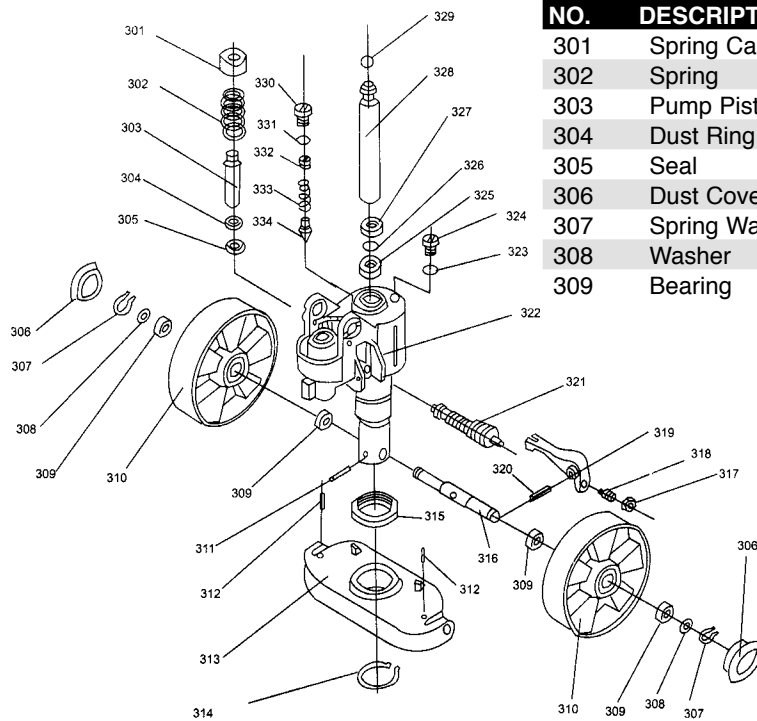


FIGURE 7

NO.	DESCRIPTION	QTY
301	Spring Cap	1
302	Spring	1
303	Pump Piston	1
304	Dust Ring	1
305	Seal	1
306	Dust Cover	2
307	Spring Washer	2
308	Washer	2
309	Bearing	4

NO.	DESCRIPTION	QTY
310	Loading Wheel	2
311	Elastic Pin	1
312	Elastic Pin	2
313	Thrust Plate	1
314	Retaining Ring	1
315	Bearing	1
316	Shaft or Loading Wheel	1
317	Nut	1
318	Screw	1
319	Level Plate	1
320	Elastic Pin	1
321	Valve Cartridge	1
322	Pump	1
323	Seal Washer	1
324	Screw Plug	1
325	Seal	1
326	O-Ring	1
327	Dust Ring	1
328	Piston Rod	1
329	Steel Ball	1
330	Screw Plug	1
331	O-Ring	1
332	Bolt	1
333	Spring	1
334	Spindle of safety valve	1

## LIST OF ASSEMBLY

NO.	DESCRIPTION	LIST OF ASSEMBLY
D	Chain Assembly	101, 102, 103, 104
E	Steering-Bar Assembly	101, 102, 103, 104, 105, 106, 107, 108, 109, 109A, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119
F1	Load Roller Assembly	226, 227
G	Steering Wheel Assembly	309, 310
S	Safety Valve Assembly	330, 331, 332, 333, 334
T	Valve Cartridge	321
V	Seal Kit Assembly	304, 305, 323, 325, 326, 327, 331
P	Pump Assembly	301, 302, 303, 304, 305, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 326, 328, 329, 330, 331, 332, 333, 334

## TROUBLESHOOTING CHART

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
<b>Forks cannot be raised to maximum height</b>	Hydraulic oil level is low	Add hydraulic oil
	Oil has impurities	Change hydraulic oil
	The nut (104) is too high, keep the pumping valve open	Adjust the nut (104) or screw (318)
<b>Leaks</b>	Air is in the hydraulic pump	Remove the air
	Sealing parts worn/damaged	Replace parts
<b>Forks descend without release valve opened</b>	Sealing parts worn/damaged	Replace parts
	Impurities in oil cause release valve to be unable to close tight	Change hydraulic oil
	Some parts of hydraulic system is cracked or bored	Inspect and replace parts
	Air is in the hydraulic pump	Remove the air
	Seals are worn or damaged	Replace seals
	The adjustment nut (201) or screw (318) is not in the correct position	Adjust the nut (104) or screw (318)

Do not attempt to repair the pallet truck unless you are trained and authorized to do so.



# RWM Casters

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