

# Operating Instructions and Parts Manual Air/Hydraulic 22 Ton Service Jack Model JASJ-22S



#### WMH TOOL GROUP

2420 Vantage Drive Elgin, Illinois 60123 Ph.: 800-274-6848 www.wmhtoolgroup.com This manual has been prepared for the owner and operators of a JET JASJ-22S Service Jack. Its purpose, aside from machine operation, is to promote safety using accepted operating and maintenance procedures. To obtain maximum life and efficiency from your service jack and to aid in using it safely, please read this manual thoroughly and follow the instructions carefully.

#### **Warranty and Service**

WMH Tool Group 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 provide quick service or information.

In most cases, a WMH Tool Group Service Center can assist in authorizing repair work, obtaining parts, or perform routine or major maintenance repair on your JET product.

For the name of an Authorized Service Center in your area, please call 1-800-274-6848, or visit our web site at www.wmhtoolgroup.com

#### More Information

Remember, 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 our web site at www.wmhtoolgroup.com

#### **WMH Tool Group Warranty**

WMH Tool Group makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follows: 1 YEAR LIMITED WARRANTY ON ALL PRODUCTS UNLESS SPECIFIED OTHERWISE. This Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

WMH TOOL GROUP LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE, BEGINNING FROM THE DATE THE PRODUCT WAS PURCHASED AT RETAIL. 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. IN NO EVENT SHALL WMH TOOL GROUP 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.

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an Authorized Service Center designated by our office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product at our discretion, or refund the purchase price if we cannot readily and quickly provide a repair or replacement. We will return the repaired product or replacement at WMH Tool Group's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of WMH Tool Group's warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights; you may also have other rights, which vary from state to state.

WMH Tool Group sells through distributors only. Members of the WMH Tool Group reserve the right to effect at any time, without prior notice, alterations to parts, fittings and accessory equipment, which they may deem necessary for any reason whatsoever.

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JASJ-22S Service Jack	



- 1. Read and understand the entire owners manual before attempting assembly or operation.
- 2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- 3. This air/hydraulic service jack is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of an air/hydraulic service jack, do not use until proper training and knowledge has been obtained.
- 4. This is a lifting device only. Do not move or dolly the vehicle while on the jack. The load must be supported immediately by other appropriate means.
- 5. Lift only on areas of the vehicle as specified by the vehicle manufacturer.
- 6. This jack is designed for use only on hard, level surfaces capable of sustaining the load. Use on other than hard, level surfaces can result in jack instability and possible loss of load.
- 7. Failure to heed these warnings may result in loss of load, damage to the jack, and/or failure resulting in personal injury and/or property damage.

-- SAVE THESE INSTRUCTIONS --

#### Introduction

This manual is provided by WMH Tool Group covering the safe operation and maintenance procedures for a JET Model JASJ-22S Service Jack. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide years of trouble free operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or WMH Tool Group. WMH Tool Group can also be reached at our web site: www.wmhtoolgroup.com.

## **Specifications**

Model Number	JASJ-22S
Stock Number	454222K
Capacity (ton)	22
Minimum Height (in.)	9-7/8
Extension Screw Height (in.)	4-1/2
Maximum Height (in.)	
Handle Length (in.)	48-3/4
Saddle Diameter (in.)	2-1/8"
Air Pressure (PSI)	90-150
Air Consumption for Full Lift (CFM)	7.8
Air Hose Size (NPT)	
Hydraulic Oil Volume (cu. in.)	29.9
Lifting Time (rated load @ 120 psi)	105 sec.
Lifting Time (no load @ 120 psi)	
Overall Dimensions (L x W)(in.)	22-7/8 x 13-3/4
Net Weight (lbs.)	91
Shipping Weight (lbs.)	96

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:** Part numbers in parentheses refer to numbers in the parts breakdown.

- 1. Remove bolt from the handle fork (#82).
- 2. Line up the positioning rod and the handle assembly. Insert into proper holes and tighten bolt in the handle fork.

## **Before Operation**

- 1. Open the release valve by turning knob (#63) counterclockwise no more than two full turns.
- 2. With the ram full retracted, remove the oil filler plug (#17). This will help release any pressurized air that may be trapped within the reservoir. Make sure oil level is just below the oil filler plug hole.
- If oil is low use a good quality hydraulic jack oil such as Mobil DTE 13. Re-install the oil filler plug.
- 4. Each day before operating the jack, add 1/2 ounce of JET Marvel Air Tool to the air inlet. Operate for at least three seconds to evenly distribute the oil. Lack of oil may cause damage to the pump.
- 5. Connect the jack to the compressor. Use only clean, dry air. Dirty or humid air may cause damage to the pump.
- Close release valve by turning knob clockwise until it stops.
- 7. Press valve lever and check to see if the ram rises.
- 8. Open release valve by turning knob counterclockwise and check to see if the ram lowers.

### **Operation**

**AWARNING**Do not use a saddle extender when using this product. Failure to comply may cause damage to property and/or serious injury!

- 1. Inspect before use. Do not use if broken, cracked or damaged in any way.
- 2. Position handle in most convenient operating position. Release handle lock by pulling positioning lever.
- 3. Move the jack and position the saddle under the point of contact.

- 4. Raise the saddle until the saddle contacts the load and then stop.
- Check the point of contact to make sure the load is centered.
- 6. Raise the load to the desired height and transfer the load to jack stands.

#### Lowering

- 1. Raise load enough to remove jack stands.
- 2. Slowly turn release valve knob counterclockwise, no more than a 1/2 turn.

AWARNING
Do not turn the release valve knob more than one half turn counterclockwise! This may cause sudden lowering which can lead to loss of control. Failure to comply may cause damage to property and/or serious injury!

If the jack is laid down before using or during transit, it may become "airbound" and the ram will not rise. To remove air from the hydraulic system:

- 1. Open the release valve knob.
- 2. With the air supply connected, activate the air pump for 10-15 seconds.
- 3. Close the release valve knob and check for normal operation.

If the ram still will not rise, follow this procedure to remove the air completely:

- 1. Remove the upper cover.
- 2. Remove the plug.
- Slowly press and release air pump lever to allow air to escape. Do not press air pump lever fully. This will allow too much air into the system.
- 4. After air has bled out, replace and tighten plug.
- 5. Remove oil plug and check oil level. See "Maintenance" for oil instructions.
- Check for proper operation before placing into service.

#### **Maintenance**

For best performance and long life, replace the complete fluid supply at least once per year.

#### Changing the Oil:

- 1. Lower the ram to the lowest position.
- 2. Remove filler plug (#17).
- Tilt jack on its side and drain the fluid into a suitable container. Dispose of oil according to local regulations.
- Fill reservoir with clean hydraulic jack oil until level is to the bottom of the fill hole. Only use quality hydraulic jack oil such as

Mobil DTE 13. Never use brake fluid, transmission fluid, motor oil or turbine oil.

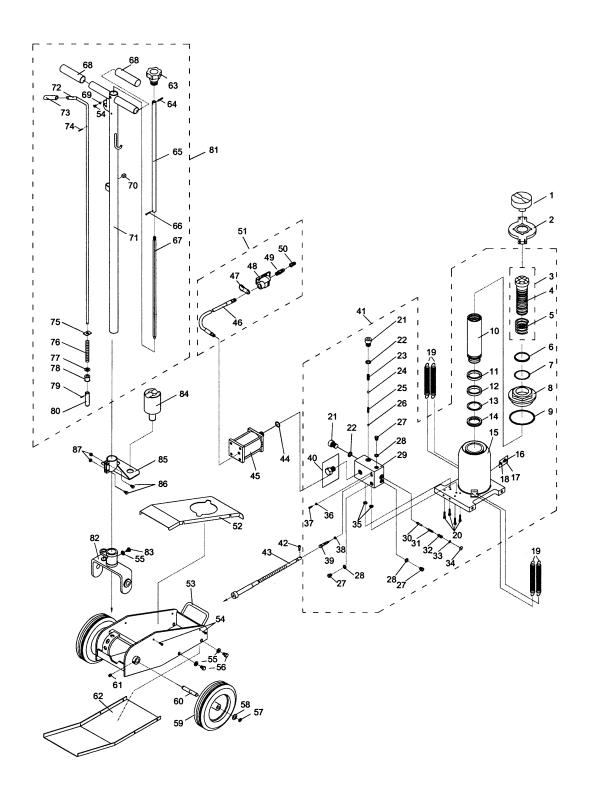
- Re-install filler plug.
- Keep oil reservoir filled.
- Clean the jack after use.
- Check sliding and rotating parts. Oil as needed.
- When storing the jack, keep the handle upright and the ram in the lowest position.
- Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

## **Troubleshooting**

Trouble	Probable Cause	Remedy
	Release valve not tightly closed.	Tighten release valve knob.
Jack will not lift load.	Overload condition.	Remedy overload condition.
	Pressure of air supply is too low.	Change to a suitable pressured air source.
Jack bleeds off after lift.	Release valve not tightly closed.	Tighten release valve knob.
	Overload condition.	Remedy overload condition.
	Hydraulic unit malfunction.	Contact WMH Technical Service.
Jack will not lower	Reservoir is overfilled.	Drain oil to proper level.
after unloading.	Linkages binding.	Clean and lubricate moving parts.
	Oil level low.	Fill oil to proper level.
Poor lift performance.	Air is trapped in system.	With ram fully retracted remove oil filler plug to let air escape; reinstall oil filler plug.
Jack will not lift to full extension.	Oil level low.	Fill oil to proper level.

# **Replacement Parts**

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 between 7:30 a.m. and 6:00 p.m. (CST), Monday through Friday. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.



## Parts List: JASJ-22S Service Jack

Index No.	Part No.	Description	Size	Qty
1	.A07-5-1108-105	Saddle		1
	. A09-3-1101-103	Saddle Extension Set (includes index# 1, 84	, 85)	1
2	.A07-5-1802-101	Spring Plate		1
		Extension Screw Assembly		
		Extension Screw		
		Spring		
		Dust Seal*		
		O-Ring*		
		Top Nut		
		Gasket*		
		Piston Rod		
11	.A07-6-1209-208	Ram Bearing		1
		Ram Bearing		
		Back-Up Ring*		
		U-Cup Ring*		
		Welded Base Assembly		
		Filler Screw Assembly* (includes index #17		
		Filler Screw		
		O-Ring		
		Return Spring		
		Hex Socket Head Bolt		
		Set Screw		
		SpringSteel Ball		
		Spring		
		Steel Ball		
		Set Screw		
		Special Washer*		
		Valve Base		
		Pin		
		Spring		
		Safety Valve Screw		
		O-Ring*		
		Safety Valve Cap		
		O-Ring*		
		Gasket		
		Bolt		
38		Oil Seal*		1
39	.A09-6-1701-105	Release Valve		1
40	.G10-4-1101-104	Screw Assembly		1
41	.A09-1-1001-217	Hydraulic Unit (includes index# 3-18, 20-40)		1
42	.649-1-0050-109	Hex Socket Head Bolt		1
43	. A07-3-3300-307	Flexible Joint Assembly		1
		Copper Gasket*		
		Air Cylinder		
		Hose Assembly		
		Air Valve Hook		
		Air Valve Assembly		
		Filter		
		Male Coupler		
		Air Hose and Valve Assembly (includes inde		
		Upper Cover Plate		
		Frame Assembly		
		Phillips Pan Head Machine Screw		
		Lock Washer		
56	. 15-1491021	Hex Cap Screw	M10 x 20	4

57	667-5-0127-005 Retaining Ring "C"
	611-3-0130-101 Washer
59	
60	
61	644-1-0060-05311 Hex Socket Head Bolt
62	
	421-6-2202-209 Release Knob
64	601-4-0040-034 Spring Pin
65	
66	TS-1521061 Socket Set Screw
67	
68	506-9-0280-104 Handle Grip
69	605-3-0050-103 Spring Washer
70	110-6-1317-108 Washer
71	
72	
73	421-6-0100-100 Rubber Grip
74	602-4-0025-017 Cotter Pin
75	
76	524-2-0138-019 Spring
	511-3-0105-011 Washer
78	
79	601-4-0030-040 Spring Pin
80	
81	
82	
83	653-1-0100-014 Bolt
84	
85	
	653-1-0080-02511 Screw
87	661-2-0080-023 Nut
	JASJ22S-LBLabel (not shown)
	A09-3-9901-105 Repair Kit

NOTE: Items included in the Repair Kit are indicated by an asterisk (\*).



# **TEST CERTIFICATE**

COMMODITY	Air/Hydraulic Jack
MODEL	JASJ-22S
SERIAL NO.	
CAPACITY	22 ton
TEST LOAD	ton
DATE OF INSPECTION	
JUDGEMENT	PASSED
INSPECTOR	

WMH Tool Group

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