

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



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-22C 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.

Table of Contents

Warranty and Service	2
Table of Contents	3
Varning	3
ntroduction	
Specifications	
Assembly	5
Specifications	5
Operation Lowering Maintenance	5
owering	F
Maintenance	6
Replacement Parts	6
JASJ-22C Service Jack	



- 1. Read and understand the entire owner's 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 have 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-22C 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-22C
Stock Number	454200C
Capacity (ton)	22
Minimum Height (in.)	8.27
Extension Screw Height (in.)	4.13
Maximum Height (in.)	
Handle Length (in.)	41.34
Saddle Diameter (in.)	2.68/1.89
Air Pressure (PSI)	100-150
Air Consumption for Full Lift (CFM)	7.85
Air Hose Size (NPT)	
Hydraulic Oil Volume (cu. in.)	29.8
Lifting Time (rated load @ 120 psi)	140 sec.
Lifting Time (no load @ 120 psi)	40 sec.
Overall Dimensions (L x W)(in.)	22.44 x 12.2
Net Weight (lbs.)	
Shipping Weight (lbs.)	110

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 on page 7.

- 1. Remove bolt (63) from the handle socket (62).
- 2. Line up the positioning rod and the handle assembly. Insert into proper holes and tighten bolt in the handle socket.

Before Operation

- Open the release valve by turning knob (70) counterclockwise no more than two full turns.
- 2. With the ram fully retracted, remove the oil filler plug (96). 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 (96).
- 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.
- 6. Close release valve by turning knob (70) 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!

- Inspect before use. Do not use if broken, cracked or damaged in any way.
- 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.
- 5. 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.
- 4. If the ram still will not rise, repeat step 1 through 3.

Maintenance

- 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.

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 (96).
- Tilt jack on its side and drain the fluid into a suitable container. Dispose of oil according to local regulations.
- 4. Fill reservoir with clean hydraulic jack oil until level is to the bottom of the fill hole. Only use good quality hydraulic jack oil such as Mobil DTE 13. Never use brake fluid, transmission fluid, motor oil or turbine oil.
- 5. Re-install filler plug (96).

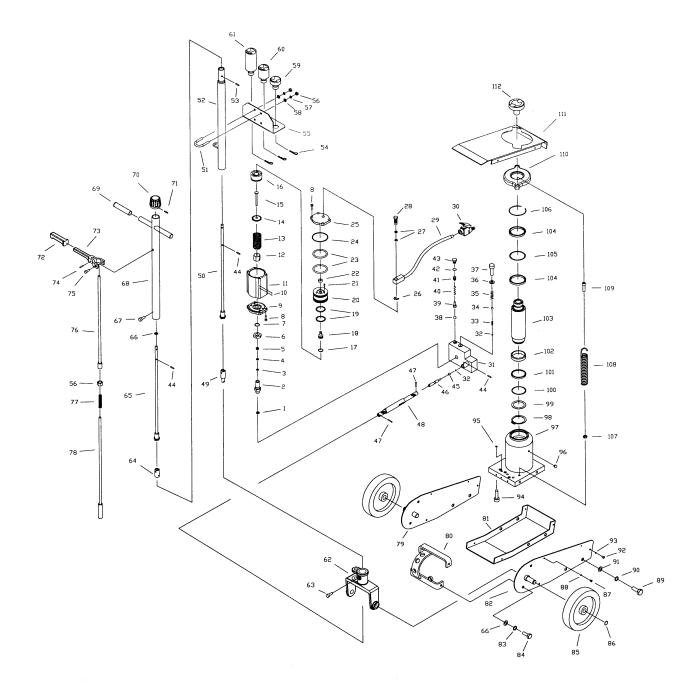
Troubleshooting

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.
	Release valve not tightly closed.	Tighten release valve knob.
Jack bleeds off after lift.	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 lowered, 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.

JASJ-22C Service Jack



Parts List: JASJ-22C Service Jack

Index No. Part No.	Description	Size	Qty
	Copper Washer		
	Pump Cylinder		
	Y-Seal*		
	Nylon Gasket*		
5AHJ12-4	Copper Washer		1
	Nut		
7AHJ12-6	O-Ring	18x2.65mm	1
	Socket Head Cap Screw		
	Base Cover		
	Steel Ball		
	Air Motor Housing		
12AHJ12-11	Nut		1
	Spring		
	Washer		
	Air Pump Plunger		
	Air Piston Base		
17AHJ12-16	O-Ring	20.3x2.65mm	1
	Air Shuttle Valve		
19AHJ12-18	O-Ring	43x3.55mm	2
	Air Piston		
21TS-1502021	Socket Head Cap Screw	M5x10	3
	Shuttle Valve Seal		
23AHJ12-22	O-Ring	57x5.3mm	2
	O-Ring		
25AHJ12-24	Top Cover		1
	Snap Ring		
	O-Ring		
	Coupler		
	Air Hose Assembly		
	Air Valve Assembly		
	Valve Block Assembly		
	Steel Ball		
	Spring		
	Steel Ball		
	Spring		
	Copper Washer		
	Socket Head Cap Screw		
	Steel Ball		
	Safety Valve Ball Seat		
	Safety Valve Spring		
	Safety Valve Adjusting Screw		
	Seal*		
43JSJ3T-60	Safety Valve Screw		1
	Lock Pin		
	Seal*		
	Release Pin		
	Pin		
	Universal Joint Assembly		
	Rod Joint		
	Lower Release Rod		
	U-Bolt		
	Front Handle		
	Lock Pin		
	Split Pin		
	Angular Bracket		
	Hex Nut		
	Lock Washer		
J1 1 J-23 100	LUUN VV asi ici	IVIO	4

58	TS-1550061	Flat Washer	M8	4
		Adapter		
		Adapter		
		Adapter		
		Handle Socket		
		Handle Socket Bolt		
		Rod Joint		
		Upper Release Rod		
		Flat Washer		
67	JASJ22C-67	Phillips Pan Head Machine Screw	M5x8	1
		Rear Handle		
		Handle Sleeve		
		Knob		
		Lock Pin		
		Sleeve		
73		Lock Lever		
		Lock Pin		
		Socket Head Cap Screw		
		Upper Control Rod		
		Spring		
78	IΔS I22C-78	Lower Control Rod		1
		Frame (LH)		
		Bracket		
		Base Plate		
		Frame (RH)		
		Lock Washer		
84		Hex Cap Screw		
		Wheel		
86	14 S 122C-86	Snan Ring	Ø 15mm	2
		Snap Ring		
87	TS-1533042	Phillips Pan Head Machine Screw	M5x12	4
87 88	TS-1533042 TS-1550031	Phillips Pan Head Machine Screw Flat Washer	M5x12	4 4
87 88 89	TS-1533042 TS-1550031 JASJ22C-89	Phillips Pan Head Machine Screw Flat Washer Hex Cap Screw	M5x12 M5 M12x25	4 4 4
87 88 89	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90	Phillips Pan Head Machine Screw Flat Washer	M5x12M5 M5 M12x25M12	4 4 4
87 88 89 90	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91	Phillips Pan Head Machine Screw Flat Washer Hex Cap Screw Lock Washer Flat Washer	M5x12M5 M5 M12x25M12 M12	4 4 4 4
87 88 90 91	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042	Phillips Pan Head Machine Screw Flat Washer Hex Cap Screw Lock Washer Flat Washer Phillips Pan Head Machine Screw	M5x12M5 M12x25M12 M12 M12 M6x12	4 4 4 4
87 88 90 91 92	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041	Phillips Pan Head Machine Screw Flat Washer Hex Cap Screw Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer	M5x12M5 M12x25M12 M12M12 M6x12M6	4 4 4 4 4
87 88 90 91 92 93	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051	Phillips Pan Head Machine Screw Flat Washer Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer Socket Head Cap Screw	M5x12M5M12x25M12M12M6x12M6M6M8x25M8x25	4 4 4 4 4
87 88 90 91 92 93 94	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95	Phillips Pan Head Machine Screw Flat Washer Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer Socket Head Cap Screw O-Ring	M5x12M5 M12x25M12 M12 M6x12M6 M6 M8x257.1x2.65mm	4 4 4 4 4
87 88 90 91 92 93 95	TS-1533042TS-1550031	Phillips Pan Head Machine Screw Flat Washer Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer Socket Head Cap Screw O-Ring Oil Filler Plug	M5x12M5M5M12x25M12M6x12M6x12M6M8x257.1x2.65mm	4 4 4 4 4 3
87 88 90 91 92 93 95 96	TS-1533042TS-1550031	Phillips Pan Head Machine Screw Flat Washer Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer Socket Head Cap Screw O-Ring Oil Filler Plug	M5x12M5M5M12x25M12M6x12M6x12M6M8x257.1x2.65mm	4 4 4 4 4 3 3
87 88 90 91 92 93 94 96 97	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68	Phillips Pan Head Machine Screw Flat Washer Lock Washer Flat Washer Phillips Pan Head Machine Screw Flat Washer Socket Head Cap Screw O-Ring Oil Filler Plug Oil Tank Assembly Snap Ring	M5x12M5M12x25M12M6x12M6cM6M8x257.1x2.65mmØ 48mm	4 4 4 4 3 3 1
87 88 90 91 92 93 95 96 97 98	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68	Phillips Pan Head Machine Screw	M5x12M5	4 4 4 4 3 3 1
87 88 90 91 92 93 95 96 97 98 99	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68 JSJ10T-70	Phillips Pan Head Machine Screw	M5x12M5M12x25M12M6x12M6cM6M8x257.1x2.65mmØ 48mm	4 4 4 4 3 1 1
87 88 90 91 92 93 95 96 98 99 100	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68 JSJ10T-70 JSJ10T-71	Phillips Pan Head Machine Screw	M5x12M5M12x25M12M6x12M6sM6M8x257.1x2.65mmØ 48mmØ 48mm	44444311111
87 88 90 91 92 93 94 95 96 97 100 101	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68 JSJ10T-70 JSJ10T-71	Phillips Pan Head Machine Screw	M5x12	4444411111
87 88 90 91 92 93 94 95 96 97 100 101 102 103	TS-1533042	Phillips Pan Head Machine ScrewFlat WasherLock WasherPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewFlat WasherSocket Head Cap ScrewO-RingOil Filler PlugOil Tank AssemblySnap RingO-Ring RetainerO-Ring* Seal Washer* Piston RingRam Assembly	M5x12	444431111
87 88 90 91 92 93 94 95 96 100 101 102 103 104	TS-1533042	Phillips Pan Head Machine Screw	M5x12	4444311111
87 88 90 91 92 93 94 95 96 100 101 103 104 105	TS-1533042TS-1550031JASJ22C-89JASJ22C-90TS-1534042TS-1550041TS-1504051JASJ22C-95JSJ3T-66JSJ10T-68JSJ10T-70JSJ10T-71JSJ10T-72JSJ10T-72JSJ10T-74JSJ10T-74JSJ10T-75	Phillips Pan Head Machine Screw	M5x12	44443111111
87 88 90 91 92 93 94 95 96 100 101 103 104 105 106	TS-1533042TS-1550031JASJ22C-89JASJ22C-90TS-1534042TS-1550041TS-15504051JASJ22C-95JSJ3T-66JSJ10T-68JSJ10T-70JSJ10T-71JSJ10T-72JSJ10T-72JSJ10T-74JSJ10T-75JSJ10T-75JSJ10T-75JSJ10T-76	Phillips Pan Head Machine Screw	M5x12	44443111111
87 88 90 91 92 93 95 96 97 100 101 102 103 104 105 106 107	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-1504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68 JSJ10T-70 JSJ10T-71 JSJ10T-72 JASJ22C-103 JSJ10T-74 JSJ10T-75 JSJ10T-75 JSJ10T-76 JSJ10T-76	Phillips Pan Head Machine ScrewFlat WasherHex Cap ScrewLock WasherPhillips Pan Head Machine ScrewFlat WasherPhillips Pan Head Machine ScrewFlat WasherOil Filler PlugOil Filler PlugOil Tank AssemblyO-Ring RetainerO-Ring*O-Ring*	M5x12	444431111111
87 88 90 91 92 93 95 96 97 98 101 102 103 104 105 106 107 108	TS-1533042 TS-1550031 JASJ22C-89 JASJ22C-90 JASJ22C-91 TS-1534042 TS-1550041 TS-15504051 JASJ22C-95 JSJ3T-66 JASJ22C-97 JSJ10T-68 JSJ10T-70 JSJ10T-71 JSJ10T-72 JASJ22C-103 JSJ10T-75 JSJ10T-75 JSJ10T-76 JSJ10T-75 JSJ10T-76	Phillips Pan Head Machine ScrewFlat WasherHex Cap ScrewLock WasherPhillips Pan Head Machine ScrewFlat WasherSocket Head Cap ScrewO-RingOil Filler PlugOil Tank AssemblySnap RingO-Ring RetainerO-Ring*Seal Washer*Piston RingPiston RingRam AssemblyBushingO-Ring*Snap RingRam Assembly	M5x12	444411111111
87 88 90 91 92 93 95 96 97 98 100 101 102 103 104 105 106 107 108 109	TS-1533042	Phillips Pan Head Machine ScrewFlat Washer	M5x12	4444111111111
87 88 90 91 92 93 94 95 96 97 100 101 103 104 105 106 107 108 109 110	TS-1533042	Phillips Pan Head Machine ScrewFlat WasherHex Cap ScrewPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewFlat WasherSocket Head Cap ScrewO-RingOil Filler PlugOil Tank AssemblySnap RingO-Ring RetainerO-Ring*Seal Washer*Piston RingRam Assembly BushingRam Assembly BushingRam Assembly BushingRam Assembly Bushing	M5x12	444411111111
87 88 90 91 92 93 94 95 96 100 101 103 104 105 106 109 110 111	TS-1533042	Phillips Pan Head Machine ScrewFlat WasherHex Cap ScrewPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewFlat WasherSocket Head Cap ScrewO-RingOil Filler PlugOil Tank AssemblySnap RingO-Ring RetainerO-Ring*Seal Washer*Piston RingRam Assembly BushingRam Assembly BushingRam Assembly BushingRam RingRam RingRam RingRam RingRam Pling	M5x12	444411111111111111
87 88 90 91 92 93 94 95 96 100 101 102 103 104 105 106 109 110 111 111 112	TS-1533042	Phillips Pan Head Machine ScrewFlat WasherHex Cap ScrewPhillips Pan Head Machine ScrewPhillips Pan Head Machine ScrewFlat WasherSocket Head Cap ScrewO-RingOil Filler PlugOil Tank AssemblySnap RingO-Ring RetainerO-Ring*Seal Washer*Piston RingRam Assembly BushingRam Assembly BushingRam Assembly BushingRam Assembly Bushing	M5x12	4444111111111111111

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



TEST CERTIFICATE

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

WMH Tool Group

2420 Vantage Drive Elgin, Illinois 60123 Phone: 800-274-6848 www.wmhtoolgroup.com