



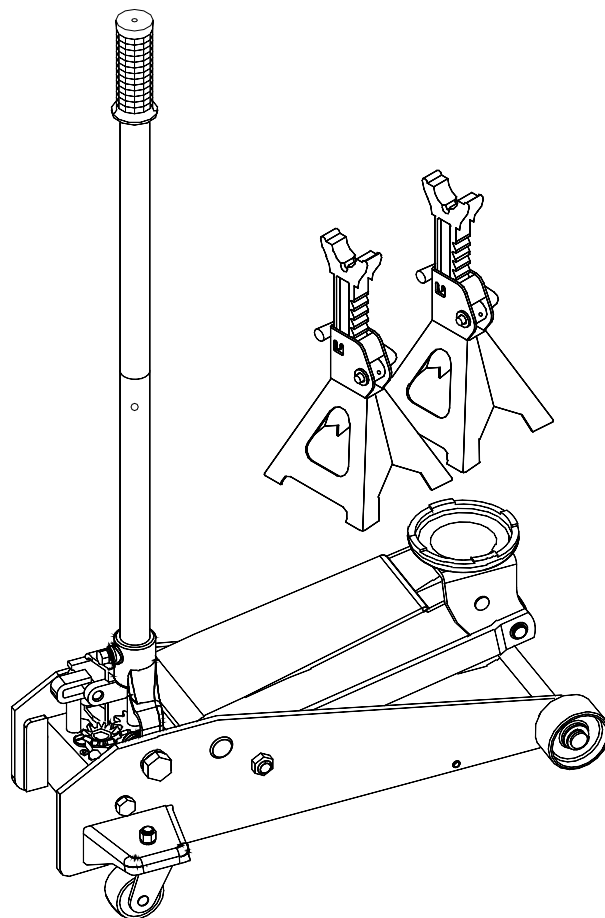
LIGHTNING  LIFT

Service Jack Combo

Operating Instructions & Parts Manual

Model Number
JSA3TJACKPAK

Capacity
3 Ton



MAC TOOLS INC.
505 N. Cleveland Ave. Suite 200
Westerville, OH 43082

Printed in China
JSA3TJACKPAK-M0 04/06

Save these instructions. For your safety, read, understand, and follow the information provided with and on this product. The owner and operator of this equipment shall have an understanding of this product and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this product is authorized. If any doubt exists as to the safe and proper use of this product, remove from service immediately. **Inspect before each use.** Do not use if broken, bent, cracked, or damaged parts (including labels) are noted. Any jack or jack stand that appears damaged in any way, operates abnormally or is missing parts, shall be removed from service immediately. If the jack or jack stands have been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until jack has been checked by an authorized factory service center. It is recommended that an annual inspection be done by qualified personnel and that any missing or damaged decals, warning/ safety labels or signs be replaced with factory authorized replacements only. Labels and Owner's Manuals are available from manufacturer.

Important: Any jack stands that appears to be damaged in any way, is worn or operated abnormally shall be removed from service and destroyed immediately.

PRODUCT DESCRIPTION

Mac Tools Service Jack is designed to lift, but not sustain, rated capacity loads. The jack is designed to be used in conjunction with jack stands. It has a unique feature that provides fast, no load lifts to the jacking point. **Intended use:** To lift one axle of a vehicle for the purpose of service and/or repair of vehicle components. After lifting, loads must be immediately supported by appropriately rated jack stands. Check with vehicle owner's manual for proper lift points.

Mac Tools Jack Stands are designed to safely support one end of level, rated capacity loads, typically vehicles, for extended periods. It has stamped steel construction and ductile iron ratchet bars. This stand comes with a ratchet/ collar lock, which prevents inadvertent loss of ratchet bar.

Both the jack and jack stands comply with applicable **ASME / ANSI** Standards ensuring safety, strength and stability.

DO NOT USE TO DOLLY OR MOVE THE VEHICLE. DO NOT USE FOR ANY OTHER THAN THOSE USES OUTLINED ABOVE!

RATED CAPACITY OF JACK STANDS ARE PER PAIR! USE ONLY ONE PAIR PER VEHICLE.

SPECIFICATIONS

Service Jack:

Capacity..... 3 Ton
 Min. Height..... 5 1/4"
 Max. Height..... 20 7/8"
 Saddle Diameter..... 5"
 Jack Size..... 27 1/8" (L) x 13 3/8" (W) x 6 3/4" (H)
 Volume of Hyd. Oil.....8.3 OZ/ 245mL
 Net Weight..... 78 lb.

Jack Stands:

Capacity..... 3 Ton
 Min. Height.....11 1/2"
 Max. Height.....17"
 Saddle Size..... 3 1/2" x 1"
 Base Size..... 6 3/4" (L) x 7 3/4" (W)
 Net Weight.....14.1 lb.

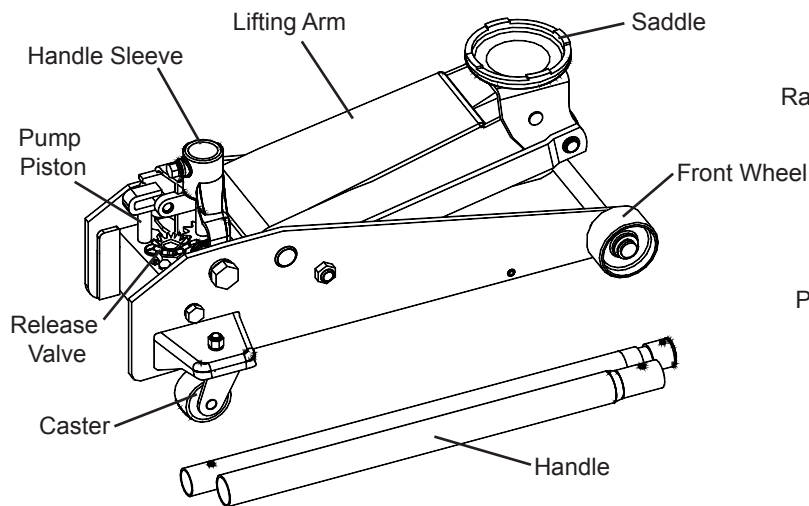


Figure 1 - Service Jack Components

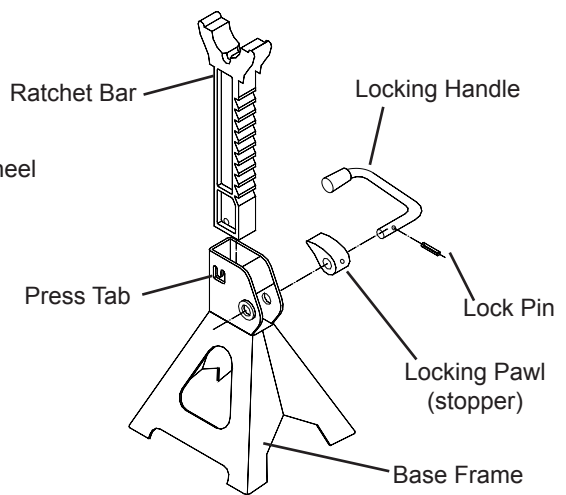


Figure 2 - Jack Stands Components

BEFORE USE

1. Inspect before each use. Do not use if bent, broken or cracked components are noted.
2. Verify that the product and application are compatible.
3. Before using this product, read the operator's manual completely and familiarize yourself thoroughly with the product, its components and recognize the potential hazards associated with its use.
4. Always check the vehicle owner's or service manual for location of proper lift and support points.
5. Replace worn or damaged parts and assemblies with Factory Authorized Replacement Parts only.

Service Jack:

- A. Secure handle in the handle fork with provided bolt. Open the release valve by turning the handle counter-clockwise (no more than 1/2 full turn).
- B. With saddle fully lowered, locate and remove the oil filler plug. Pump handle 6 to 8 full strokes. Ensure the oil level is within ~ 3/16" from the inner cylinder as viewed from the oil filler hole. Reinstall the oil filler plug. Close release valve by turning the handle clockwise until firm resistance is felt.
- C. Check to ensure that jack rolls freely, that the pump and release valve operate smoothly. Raise and lower the unloaded saddle throughout the advertised lift range before putting into service. Lubricate as instructed in Maintenance Section.

Jack Stands:

- A. Install ratchet bar into frame with ratchet portion of bar aligned with locking pawl (stopper).
- B. Move the ratchet bar to its lowest position by raising the locking handle, thereby releasing the stopper, and guiding the bar downward.
- C. To prevent inadvertent loss of the ratchet bar, simply press the press tab inward using a suitable hammer and punch.

WARNING

- Study, understand, and follow all printed materials provided with/on this product before use.
- Do not exceed rated capacity of the jack and jack stands. Rated Capacity on jack stands are per pair!
- Use only on hard, level surfaces capable of supporting rated capacity loads.
- Never work on, under, or around a load supported by jack only.
- Jack is a lifting device only.
- Do not move or dolly loads with this jack.
- After lifting, immediately transfer the load to appropriately rated jack stands.
- Center load on saddle of jack stands
- Use jack stands as a matched pair to support one end of a vehicle only. Only one pair per vehicle.
- Jack stands are not to be used to simultaneously support both ends or one side of vehicle.
- No alterations shall be made on this product.
- Failure to heed these markings may result in personal injury and/or property damage.

WARNING



To avoid crushing and related injuries:
NEVER work on, under or around a load supported only by jack. **ALWAYS** use adequately rated jack stands.

OPERATION

Service Jack: Lifting



CAUTION

Lift only on areas of the vehicle as specified by the vehicle manufacturer.
Do not use adapters or accessories that are not provided initially.
The resulting of overload may cause hydraulic system failure.

1. Place vehicle in park, with emergency brake on and wheels securely chocked to prevent inadvertent vehicle movement.
2. Locate and close release valve by turning handle clockwise, firmly. Center jack saddle under lift point.
3. Verify lift point, then pump handle to contact lift point. To lift, pump handle until load reaches desired height.
4. Transfer the load immediately to appropriately rated jack stands.

Lowering



WARNING

Be sure all tools and personnel are clear before lowering load.

1. Raise load high enough to clear the jack stands, then carefully remove jack stands (**always** used in pairs).
2. Slowly turn the handle counter-clockwise, but no more than 1/2 turn. If the load fails to lower:
 - A. Use another jack to raise the vehicle high enough to reinstall jack stands.
 - B. Remove the affected jack and then the stands.
 - C. Using the other jack, lower the load by turning the operating handle counter-clockwise, but no more than 1/2 turn.
3. After removing jack from under the load, push saddle down to reduce ram exposure to rust and contamination.

Jack Stands:

Note: Jack stands are not to be used to simultaneously support both ends or one side of a vehicle. Do not use adapters or accessories on the saddle or base frame.

1. Adjust height by pulling up on ratchet bar.
2. The weight of the locking handle should secure the ratchet bar in desired position. To confirm this, push the locking handle downward. Check to ensure at ratchet is secure before loading.
3. Carefully position stands so that load is centered on stand's saddle.
4. Slowly lower the vehicle onto the stands.
5. Check to ensure vehicle is secure before working on, around or under. When used to support vehicle, use wheel chocks to prevent inadvertent movement.

To lower load

1. Use jack to raise vehicle clear of stands.
2. Raise the locking handle to release stopper and allow ratchet bar to glide down to lowest position.
3. Carefully remove stands, then carefully lower vehicle with jack.
4. Ensure that all tools, equipment and personnel are clear before lowering load.

MAINTENANCE

Service Jack:

Important: Use only good grade hydraulic jack oil. Avoid mixing different types of fluid and NEVER use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause failure of the jack and the potential for sudden and immediate loss of load. We recommend Mobil DTE 13M or equivalent.

Adding oil

1. With saddle fully lowered set jack in its upright, level position. Locate and remove the filler screw.
2. Fill with oil until ~3/16" above the inner cylinder as seen from the filler screw hole. Reinstall the filler screw.

Changing oil

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

1. With saddle fully lowered, remove the filler screw.
2. Lay the jack on its side and drain the fluid into a suitable container.

Note: Dispose of hydraulic fluid in accordance with local regulations.

3. Fill with oil until ~3/16" above the inner cylinder as seen from the filler screw hole. Reinstall the filler screw.

Lubrication

Periodically apply a coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels, casters and pump assemblies move freely.

Cleaning

Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

Note: Never use sandpaper or abrasive material on these surfaces!

Storage

When not in use, store the jack with saddle fully lowered.

Jack Stands:

To help prevent rust, wipe clean and/or blow dry after each use. Ensure locking handle moves freely under its own weight. Do not apply oil or lubricant to ANY portion of this product. Store stands in upright position and in a clean, dry area.

Note: There are no replacement parts applicable to jack stands. Replace as a matched pair only.

TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Jack will not lift load	<ul style="list-style-type: none">• Release valve not tightly closed• Overload condition	<ul style="list-style-type: none">• Ensure release valve tightly closed• Remedy overload condition
Jack will lift, but not maintain pressure	<ul style="list-style-type: none">• Release valve not tightly closed• Overload condition• Hydraulic unit malfunction	<ul style="list-style-type: none">• Ensure release valve tightly closed• Remedy overload condition• Contact Mac Tools Tech. Service
Jack will not lower after unloading	<ul style="list-style-type: none">• Reservoir overfilled• Linkage binding	<ul style="list-style-type: none">• Ensure load is removed, then drain fluid to proper level• Clean and lubricate moving parts
Poor lift performance	<ul style="list-style-type: none">• Fluid level low• Air trapped in system	<ul style="list-style-type: none">• Ensure proper fluid level• With ram fully retracted, remove oil filler plug to let pressurized air escape, then reinstall oil filler plug
Will not lift to full extension	<ul style="list-style-type: none">• Fluid level low	<ul style="list-style-type: none">• Ensure proper fluid level

REPLACEMENT PARTS

Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give Model number, part number and description below. Write for current pricing: Mac Tools Inc. 4365 Hilton Corporate Drive, Columbus, Ohio 43232. Tel: 1-800-MAC-TOOL (622-8665)

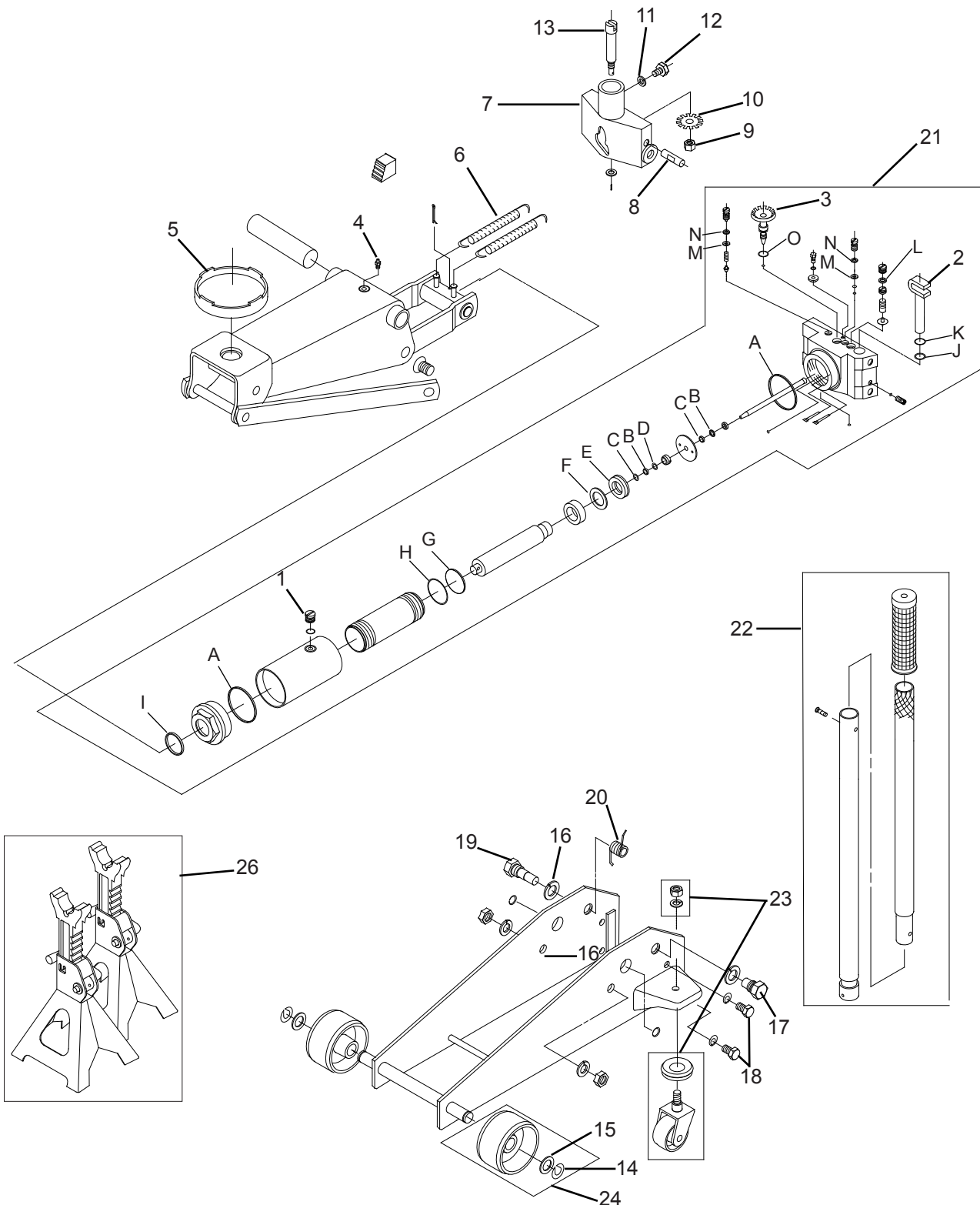


Figure 3 - Replacement Parts Illustration for Model JSA3TJACKPAK Service Jack Combo

Replacement Parts List for model JSA3TJACKPAK Service Jack

Item	Part No.	Description	Qty
1	A20060-0002	Filler Screw	1
2	G48900-0023	Pump Piston	1
3	G48900-0004	Release Valve	1
4	G43000-0002	Grease Fitting Nipple, M6	1
5	G59508-0004	Saddle	1
6	G62000-1003	Return Spring	2
7	G58900-0002	Handle Fork	1
8	G48900-0015	Pin, D13	1
9	G59305-0003	Nut M10	1
10	G48900-0016	Release Valve Gear	1
11	G59305-0005	Lock Washer D10	1
12	G48900-0024	Bolt M10x16mm	1
13	G48900-0017	Release Valve Connecting Bar	1
14	G59305-0007	E-ring D15	2
15	G59305-0004	Washer D18	2
16	G59305-0006	Lock Washer D20	2
17	G48900-0018	Handle Bolt, Left	1
18	G48900-0019	Bolt M12	4
19	G48900-0020	Handle Bolt, Right	1
20	G48900-0001	Return Spring, Handle Fork	1
21	G43000-0001	Hydraulic Power Unit	1
22	G48900-0003	Handle Assembly	1
23	G69300-0003	Caster Assembly	2
24	G48900-0007	Front Wheel Assembly	2
25	G43000-0000	Seal Kit (includes # A ~ O)	-
26	JS3M	Jack Stands, 3 Ton (replace as pair)	1
27	JSA3TJACKPAK-L0	Label(s)	-
28	JSA3TJACKPAK-M0	Manual	-

Seal Kit G43000-0000 includes:

Item	Description	Qty.
A	O-ring, D63.5x2.8	2
B	O-ring	2
C	Back-up Washer	2
D	Back-up Washer	1
E	U-cup	1
F	Back-up Washer	1
G	O-ring, D44.5x2.5	1
H	Back-up Washer	1
I	O-ring, D38x3.5	1
J	O-ring, D19x2.4	1
K	Back-up Washer	1
L	O-ring, D8.2x2.4	1
M	O-ring	2
N	Back-up Washer	2
O	O-ring, D15x2.4	1

ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, **Mac Tools Inc.** will repair or replace, at its option, without charge, any of its products, which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **Mac Tools Inc.** Warranty Service Department, 505 N. Cleveland Ave. Suite 200 Westerville, OH 43082.

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