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Form No. 107077

Operating Instructions
for:

1511

Air / Hydraulic Floor Service Jack

Max. Capacity: 10 Tons

Application: Designed to lift a wide range of motor vehicles.

Safety Precautions



WARNING : To prevent personal injury and damage to equipment,

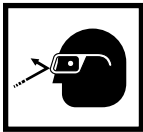


- Read, understand, and follow all instructions, including ASME PALD Part 10 for service jacks.

- If the operator cannot read English, operating instructions and safety precautions must be read and discussed in the operator's native language.

- Si el operador no puede leer el inglés, las instrucciones de operación y las precauciones de seguridad deberán leerse y comentarse en el idioma nativo del operador.

- Si l'utilisateur ne peut lire l'anglais, les instructions et les consignes de sécurité doivent lui être expliquées dans sa langue maternelle.



- Before using the service jack to lift a vehicle, refer to the vehicle service manual to determine recommended lifting surfaces on the vehicle chassis.

- Wear eye protection that meets ANSI Z87.1 and OSHA standards.



- Inspect the jack before each use; do not use the jack if it's damaged, altered, or in poor condition. Take corrective action if any of the following conditions are found: cracked or damaged housing; excessive wear, bending, or other damage; leaking hydraulic fluid; scored or damaged piston rod; loose hardware; modified or altered equipment.

- A load must never exceed the rated lifting capacity of the jack.

- Only use the jack on a hard, level surface.

- Use the jack for lifting purposes only. Stay clear of a lifted load. Place support stands under the axles before working on the vehicle.

- Center the load on the jack saddle. Off-center loads can damage seals and cause jack failure. Lift only dead weight.

- Do not use blocks or other extenders between the saddle and the load being lifted. Do not modify the jack or use adapters unless approved or supplied by OTC. Do not adjust the safety valve.

- Lower the jack slowly and carefully while watching the position of the jack saddle.

- Use only approved hydraulic fluid (Mobil DTE #11 or equivalent). The use of alcohol, hydraulic brake fluid, or transmission oil could damage seals and result in jack failure.

Operating Instructions

1. Connect the shop air supply to the jack. (85–142 psi of clean, dry air is required for the capacity of this jack.)
2. Position the jack under the vehicle using the manufacturer's recommended lifting points on the chassis.
3. Lower the release valve lever. Press the air valve lever to raise the jack saddle until it touches the vehicle.
4. Check the placement of the jack; the load must be centered on the jack saddle. **Important:** Avoid wheel obstructions such as gravel, tools, or uneven expansion joints. The jack must be free to roll forward 11 inches during lifting, and backward 11 inches during lowering. The load could become unstable, or even fall off the saddle, if the rolling movement of the jack is impaired.
5. Finish lifting the vehicle. Place approved support stands under the vehicle at points that will provide stable support. Before making repairs on the vehicle, lower it onto the support stands by SLOWLY pulling back on the release lever.

Preventive Maintenance

Important: The greatest single cause of failure in hydraulic units is dirt. Keep the service jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, sand, or grit, it must be cleaned before it is used.

1. Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
2. Lubricate rotating and sliding parts at least once per month. Lubricate the air inlet on the jack using 1/2 oz. clean lubricating oil; lack of oil may cause pump malfunction.
3. Grease the jack once a month using a good bearing grease. (There are grease fittings located on the pivot tube of the lift arm, the block on the rod end of the cylinder, and on all four wheels of the jack.)
4. Keep warning labels and instructional decals clean and readable. Use a mild soap solution to wash the external surfaces of the jack.
5. Replace the oil in the reservoir at least once per year.
6. Inspect the jack before each use. Take corrective action if any of the following problems are found:

<ol style="list-style-type: none"> a. Cracked or damaged housing b. Excessive wear, bending, or other damage c. Leaking hydraulic fluid 	<ol style="list-style-type: none"> d. Scored or damaged piston rod e. Loose hardware f. Modified or altered equipment
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Troubleshooting Guide

Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment. **CAUTION: All inspection, maintenance, and repair procedures must be performed when the jack is free of a load (not in use).**

Trouble	Cause	Solution
Failure to lift a load	<ol style="list-style-type: none"> 1. Low oil level 2. Air line leaks. 3. Inadequate air pressure. 4. Release lever open. 5. Jack is overloaded. 	<ol style="list-style-type: none"> 1. Place jack on level surface. Lower lift arm completely. Disassemble top cover by removing four pan head screws. Remove oil fill plug, and check hydraulic oil level. Fluid should be visible and just covering hydraulic cylinder. If not, add a high-grade hydraulic fluid equivalent to Mobil DTE #11 until oil level just covers cylinder. 2. Locate leak, tighten connections, and/or replace hose. 3. Set air pressure at 85–142 psi. 4. Close release lever. 5. Use equipment that has the correct capacity for the job.
Failure to hold a load	<ol style="list-style-type: none"> 1. Release lever not closed. 	<ol style="list-style-type: none"> 1. Turn release lever clockwise to tighten securely.
Air motor won't run, or runs erratically	<ol style="list-style-type: none"> 1. Leak in air line. 2. Air piston is sticking. 3. Inadequate air pressure. 	<ol style="list-style-type: none"> 1. Locate leak, tighten connections, and/or replace hose. 2. Add small amount of oil to jack's air inlet to lube air motor. 3. Set air pressure at 85–142 psi.
Reservoir leaks	<ol style="list-style-type: none"> 1. Loose oil fill plug. 2. Reservoir is overfilled. 	<ol style="list-style-type: none"> 1. Tighten oil fill plug. 2. Drain some oil from reservoir.

Replacement Parts

Part No.	Description
509825	Air Motor Kit
509826	Hydraulic Kit
509827	Wheel
509828	Saddle
509829	Handle
509859	Foot Pedal
509860	Springs
509861	Hose
510234	Caster

