



ZW79001 PNEUMATIC DIFFERENTIAL MACHINE JOB AID

Technical Support: 800-255-8138

Safety Recommendations:

- Safety glasses and gloves should be worn during the service.
- A long-sleeved shirt or other arm protection is advised.



Machine Preparation:

- Connect shop air to the nipple at the front of the machine.
- Turn all valves and switches to Off.
- Adjust both pressure regulators to 40 psi.



Vehicle Preparation:

- Lift the vehicle to access the differential/driveline fill plug.
- Remove the fill plug.



Perform Differential Service:

- Insert the hose with the flexible extension into the bottom of the differential
- Ensure the differential fluid is up to operating temperature (at least 100 F)
- Turn on the "Old/Used Fluid" switch to extract the old fluid.
- Once all the old fluid is extracted, flip the "Used Fluid" switch to the off position.





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Perform Differential Service:

- Remove the flexible hose from the differential box.
- Place the "Old/Used Fluid" switch to the "On" position to remove any residual fluid in the used fluid service hose.
- Flip the "Old/Used Fluid" switch to "Off" position when the used fluid service hose is empty.
- Store the "Old/Used Fluid" service hose on the hose hanger.
- Dial down both pressure regulators to show 0 psi on the gauges.
- Add protectant as needed.

Perform Differential Service:

- Fill the New Fluid reservoir (not included with new machine) with differential fluid type and capacity based on manufacturer's specifications
- Insert the open end of the New Fluid hose into the New Fluid reservoir.
- Place the New Fluid spigot/hose bib in the differential box.
- Turn on the "New Fluid" switch
- Press down the lever on the hose bib.
- Fill the differential box with new differential fluid to the desired level.



Completing the Service:

- Maintain the New Fluid pressure regulator at 40psi.
- Once the differential box is filled with new fluid to the desired level, remove the hose bib from the differential box and completely empty the new fluid hose.
- Turn Off the New Fluid switch
- Make sure both pressure regulators are dialed down to show 0 psi on the pressure gauges.
- Install and tighten the plug on the opening of the differential box.
- Apply de-greaser on the areas on the differential box where overflow occurred.

