



RX-DF1 Differential Machine Quick Guide

For Technical Support Contact 626.814.3969

SAFETY INFORMATION



USAGE PRECAUTION

- Differential fluid can be hot after vehicle operation and may cause serious burns. Allow the system to cool before servicing.
- Differential fluid is typically under pressure; open fill or drain plugs slowly to avoid fluid spray and potential injury.
- Avoid prolonged skin contact, as differential fluid can cause irritation.
- Differential fluid is slippery—clean up any spills immediately to prevent accidents.



PERSONAL SAFETY

- Gloves, Safety glasses or a safety mask (Preferred) is recommended to be worn when operating or being near this equipment.
- A long-sleeved shirt or other arm protection is advised.

IMPORTANT SAFETY NOTICE

- ONLY QUALIFIED PERSONNEL should operate this equipment.
- READ ALL INSTRUCTIONS AND SAFETY RECOMMENDATIONS before use.
- DO NOT SMOKE near this machine.
- DO NOT INHALE OR BREATHE the fumes from the machine or exhaust fumes from the engine.
- USE IN A WELL-VENTILATED AREA to avoid inhalation of harmful vapors.
- READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET (MSDS) for all fluids used.
- IMMEDIATELY REPAIR ANY LEAKS in the machine or connectors to prevent hazards.
- IMMEDIATELY CLEAN UP ANY SPILLS to avoid slips and environmental contamination.
- KEEP A FIRE EXTINGUISHER HANDY in case of flammable fluid ignition.
- KEEP LINES AWAY from moving parts and hot surfaces to prevent damage and injury.
- DO NOT EXCEED THE PRESSURE for which the machine is set. Doing so may cause machine damage, personal injury, and void the warranty.
- ONLY USE CLEANING COMPOUNDS recommended by the manufacturer to avoid damaging the machine or voiding the warranty.

OPERATING INSTRUCTIONS

This machine is designed to remove and replace Differential Fluid and fluid in manual transmissions.

MACHINE PREPARATION

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



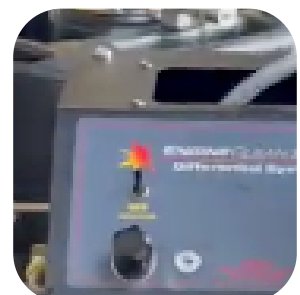
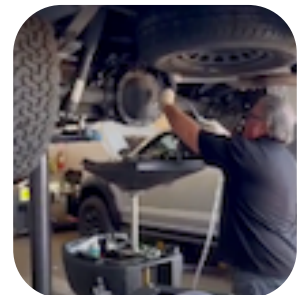
VEHICLE PREPARATION

1. Lift the vehicle to access the differential/drive-line fill plug.
2. Remove the fill plug.



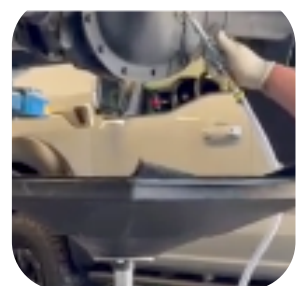
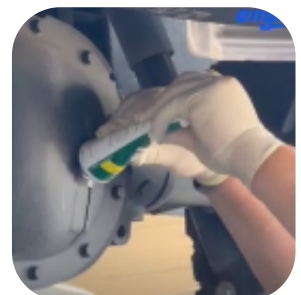
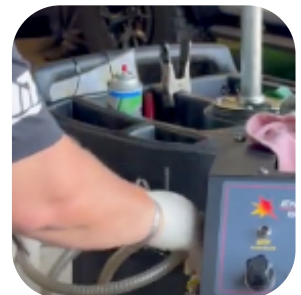
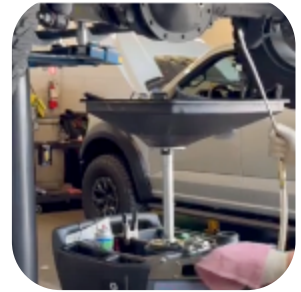
PERFORM DIFFERENTIAL SERVICE

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



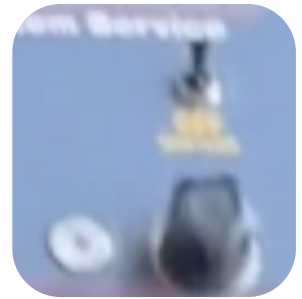
PERFORM DIFFERENTIAL SERVICE

5. Remove the flexible hose from the differential box.
6. Place the "Old/Used Fluid" service hose in the old/used fluid reservoir.
7. Flip the "Old/Used Fluid" switch to the "On" position to remove any residual fluid in the used fluid service hose.
8. Flip the "Old/Used Fluid" switch to "Off" position when the used fluid service hose is empty.
9. Store the "Old/Used Fluid" service hose on the hose hanger.
10. Dial down both pressure regulators to show 0 psi on the gauges.
11. Add protectant as needed.
12. Fill the new fluid reservoir (Not sold with machine) with new differential fluid.
13. Insert the open end of the new fluid hose into the new fluid reservoir.
14. Place the new fluid Spigot/Hose bib in the differential box.



PERFORM DIFFERENTIAL SERVICE

15. Turn On the "New Fluid" switch.
16. Press down the lever on the hose bib.
17. Fill the differential box with new differential fluid to the desired level.
18. Adjust the new fluid pressure regulator as needed.
19. 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.
20. Turn Off the New Fluid switch.
21. Make sure both pressure regulators are dialed down to show 0 psi on the pressure gauges.
22. Install and tighten the plug on the opening of the differential box.
23. Apply de-greaser on the areas on the differential box where overflow occurred.



ADDITIONAL INFORMATION

1. To purchase parts, please visit shop.engineclean.com
2. For additional help, please call us at 626-814-3969
3. For Warranty information, go to page 5.
4. To register your product , please visit <https://engineclean.com/warranty-registration-2/>

LIMITED WARRANTY

This product is warranted by **ENGINE CLEAN SOLUTIONS** to be free of defects in workmanship and materials for a period of one year from date of purchase by original purchaser.

WARRANTY INFORMATION

If the product fails within the warranty period, it will be repaired or replaced at the seller's discretion.

Warranty is valid and honored **ONLY IF** the product is registered within 30 days and submitted with proof of purchase date and if transportation charges are prepaid to the nearest Service Center.

Liability under this warranty is expressly limited to repairing or replacing the product or parts thereof. This warranty does not apply to products or parts broken by accident, negligence, overload, abuse, or if they have been tampered with in any way. This warranty does not apply to service hoses and adapters, which may need replacing do to normal wear. If this warranty does not apply, then the purchaser shall pay all costs for labor, material, and transportation.

The use of this apparatus for any purpose other than the services described will render this warranty null and void. No other warranties are expressed or implied.