



## ADSORBED NATURAL GAS SYSTEM COALESCING FILTER CHANGE INSTRUCTIONS

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2021 - 2022 FORD TRANSIT 3.5L



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- **Natural Gas is combustible and a flammable fuel.**
- **ANG (Adsorbed Natural Gas) is stored on the vehicle at a service pressure of 900 psi.**
- **System maintenance should be performed by an certified and trained technician.**
- **All maintenance should be performed in a well ventilated area.**

### **Required Tools:**

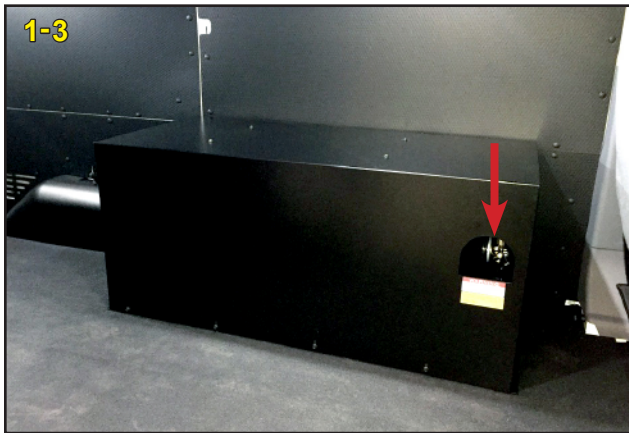
- **Torque wrench (ft-lbs)**
- **Parker lube & seal or comparable high grade lubricant**
- **3/16" allen wrench**
- **Filter housing socket (Part # 180421)**
- **Bubble soap or methane detector**
- **Coalescing Filter Part #: KIT-AFF-TIF-PE**

**Call Altech-Eco for parts or tools at 828-654-8300**

# COALESCING FILTER CHANGE INSTRUCTIONS

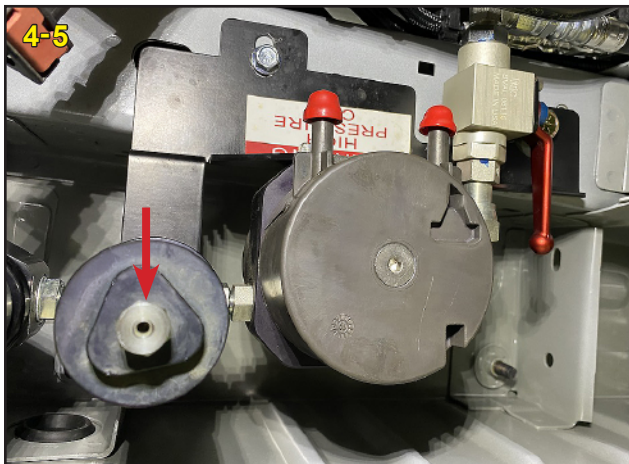
Ensure that you are in a well ventilated area. Exercise extreme caution, natural gas is flammable!

1. Locate the manual cylinder supply valve(s) on natural gas storage cylinder(s), located under cylinder cover(s).
2. Close the valve(s), by turning the "wheel" handle clockwise until completely closed. This will manually stop the flow on natural gas from the storage cylinder to the engine.
3. - For **BI-FUEL** system (natural gas and gasoline operation): Crank the vehicle and let it run on natural gas until the vehicle switches over to gasoline only mode.  
- For **DEDICATED** system (natural gas only): Crank the vehicle and let it run on natural gas until vehicle stalls.
4. Unscrew to bleeder plug slowly and remove from the filter housing. This will release pressure and any natural gas remaining in the system.
5. Unscrew and completely remove the bleeder valve plug from filter housing to release pressure and any natural gas remaining in the system.
6. Unscrew and remove only the bottom half of the filter housing using the Altech-Eco filter socket.

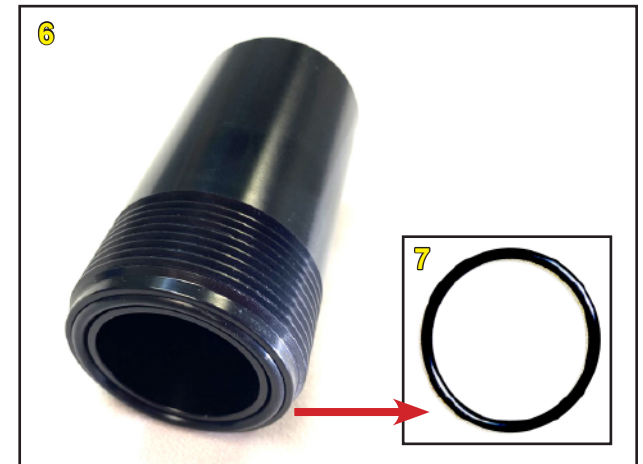


Filter Socket (Sold separately)

Slide socket over triangle shape on filter housing to remove bottom half.



Bleeder Plug



## COALESCING FILTER CHANGE INSTRUCTIONS (CONT.)

7. Remove the old o-ring from the filter housing. Clean and remove any excess oil or debris inside the filter housing.
8. Generously apply lube to o-ring location and insert the new o-ring.
9. Insert the new coalescing filter into slot inside the top part filter housing. Ensure that the filter is snug and not loose.
10. Re-install the bottom half of the filter housing and tighten. Torque to 45 ft-lbs.
11. Re-install the bleed valve plug. Hand tighten first then tighten snug. DO NOT OVER TIGHTEN, doing so will damage the threading.
12. Open natural gas cylinder valve(s). To open the manual tank supply valve, turn "wheel" handle counter-clockwise until fully open. Then turn "wheel" handle clockwise 1/4 turn.
13. Turn vehicle on and cycle the ignition 3 times to re-pressurize the natural gas system and start the vehicle.
14. Perform a leak test on all connections to and around coalescing filter housing to ensure there are no leaks.

