



CNG CONVERSION SYSTEM MAINTENANCE MANUAL

COALESCING FILTER CHANGE

2011- 2013 FORD F-SERIES

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- **CNG (Compressed Natural Gas) is combustible and a flammable fuel.**
- **CNG is stored on the vehicle at normal operation pressure of 3,600 psi.**
- **System maintenance should be performed by an certified and trained technician.**
- **All maintenance should be performed in a well ventilated area.**

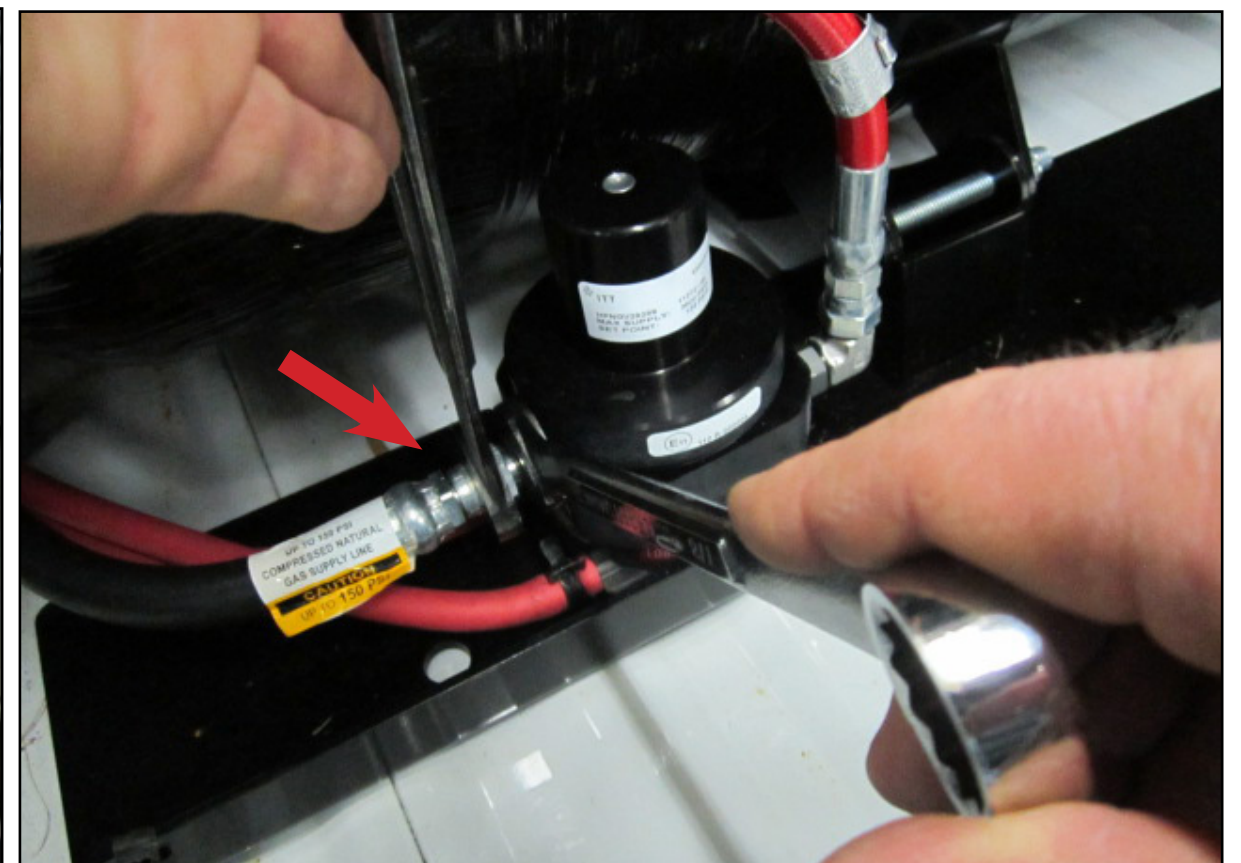
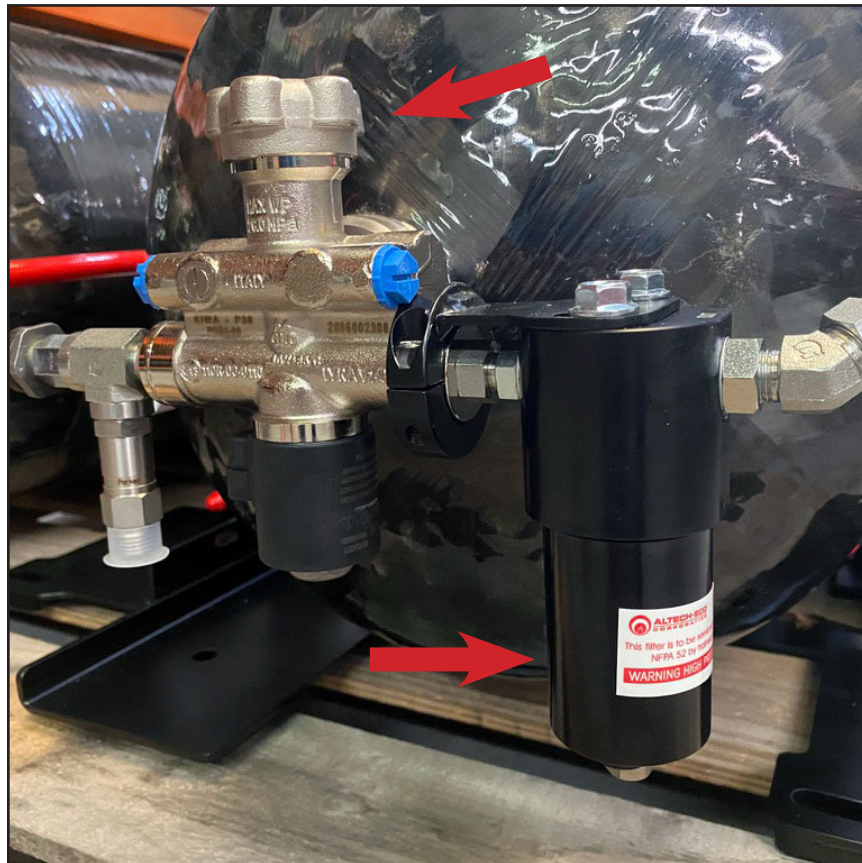
Required Parts and Tools:

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

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

2011 - 2013 COALESCING FILTER CHANGE PROCEDURE

1. Remove CNG tank cover or toolbox cover to get access to filter housing.
2. Close all CNG tank valve(s) manually for each CNG cylinder. Some require to use a 3/16" allen wrench (GFI).
3. BI-FUEL: Run the vehicle on CNG until the vehicle switches over to gasoline. DEDICATED - Run the vehicle until the vehicle stalls.
4. Release pressure in the (up to 150 psi) low pressure CNG fuel hose connected to regulator. Use 2 wrenches (7/8" or 22mm and a 3/4" to hold down 90° or 45° fitting) to loosen the fitting and release pressure slowly, do not fully detach the fitting and LP Hose. Depressurization may take up to 30 seconds or more.
5. Locate the filter housing, usually next to tank valve. Using the filter socket, remove the bottom half of the filter housing.
6. Remove the used filter and O-ring from filter housing.
7. Clean and remove any excess oil or debris inside the filter housing.
8. Install new O-ring onto filter housing cover and apply lube generously to o-ring.
9. Apply lube to top of the new filter with small o-ring and then press the filter into the filter housing until seated.



2011 - 2013 COALESCING FILTER CHANGE PROCEDURE - CONT.

10. Re-install filter housing cover using the filter socket. Tighten to 45 ft-lbs.
11. Re-tighten low pressure fuel hose fitting using 2 wrenches (7/8" or 22mm and a 3/4" to hold down the fitting). Tighten connection to 35-40 ft-lbs.
12. Re-open all CNG tank valve(s) to 100% then close back by a 1/4 turn.
13. Cycle the vehicle ignition 3 times to repressurize the system and then start the vehicle as normal.
14. Perform a leak test.
15. Re-install tank cover or toolbox cover.

