

## Caterpillar 2 Micron Fuel Filter Kit For VW TDI Engines Installation Instructions



### Parts in kit:

- A. CAT Fuel Filter (Part #: 1R-0750)
- B. Banjo Bolt (Qty. 2)
- C. Banjo Fitting (Qty. 2)
- D. Banjo Washers (Qty. 4)
- E. O-Rings (taped to lid of filter box):  
Large O-Ring (Qty. 1)  
Small O-Ring (Qty. 2)
- F. Filter Holder Clamp
- G. Fuel Hose Spring Clamp (Qty. 2)
- H. Filter Adapter

### Tools Required:

- #2 Phillips screwdriver
- 19mm Socket or Wrench
- Small Flat-blade screwdriver
- Pliers
- Strap Wrench (2)

### Optional Tools:

- Hand vacuum pump

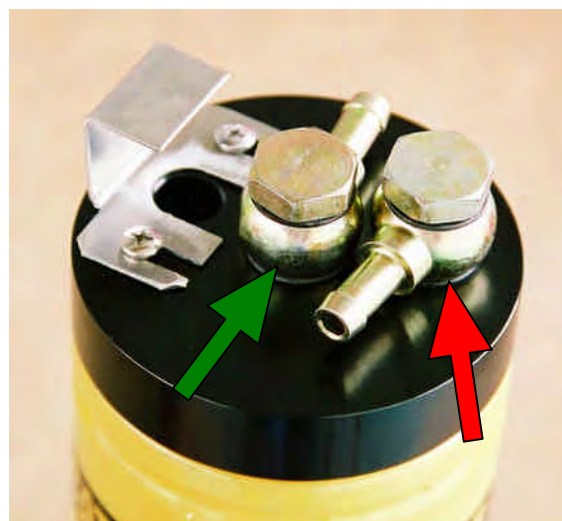
1. Install the large o-ring on the threaded nipple on the bottom of the Filter Adapter.



2. Using a little diesel fuel, lubricate the filter gasket and thread the fuel filter onto the filter adapter by hand. Once the filter is on the adapter hand tight tighten the filter one additional complete turn, using a pair of strap wrenches. It is helpful to put a mark on the filter to know when you have complete one full turn.

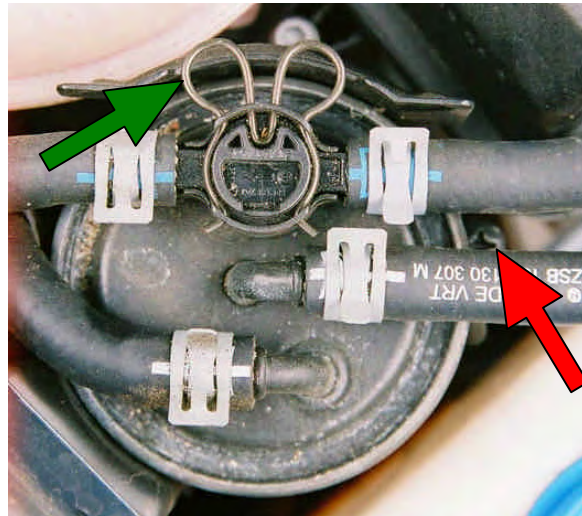


3. Assemble the fuel inlet and outlet banjo fittings. Each banjo fitting should have a washer on each side of the fitting (one on the adapter side, and one on the bolt side). Loosely thread them into the filter adapter. The filter inlet is the threaded hole on the outside (red arrow), and the filter outlet is in the center (green arrow).





4. Remove the OEM filter from the car. Start by removing the clamp on the side of the filter using a Phillips screw driver (the screw for the clamp is under the fuel lines on the right side of the picture (red arrow)).



5. Lift the fuel filter straight up, removing it from the filter holder (you may need to release some of the fuel line hold down clamps to loosen the hose enough to work).

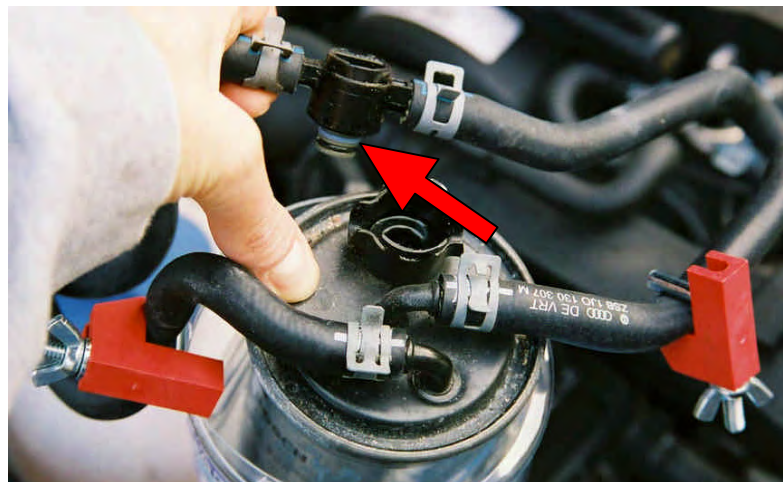
6. Remove the “Mickey Mouse” clip which holds the thermostatic tee (green arrow).

7. Place a container under the old fuel filter to avoid spilling old fuel (an old 2-liter bottle works well).

8. Clamp the fuel inlet and outlet hoses.

9. Remove the thermostatic tee by pulling it straight up. Replace the two o-rings on the tee with the new o-rings included in the kit (red arrow).

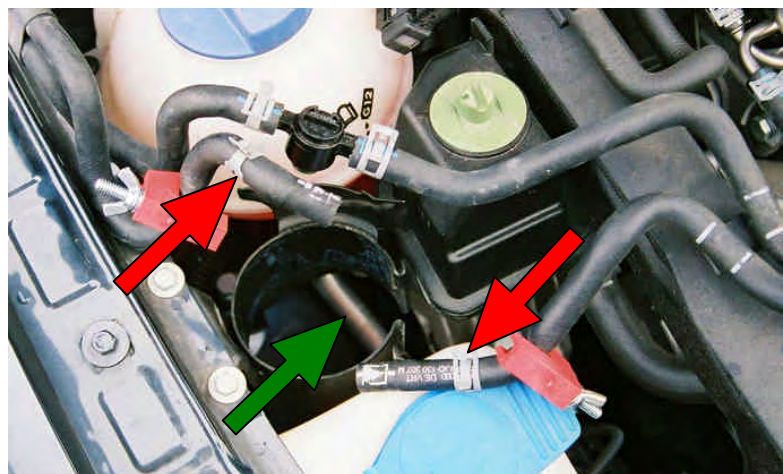
10. Using pliers, slide the two spring clamps towards the fuel line clamps, and slide the fuel inlet and outlet hoses off the old filter.



11. Remove the old filter and dispose of properly.

12. Slide off the old fuel hose spring clamps (red arrows) and slide on the replacement clamps from the kit.

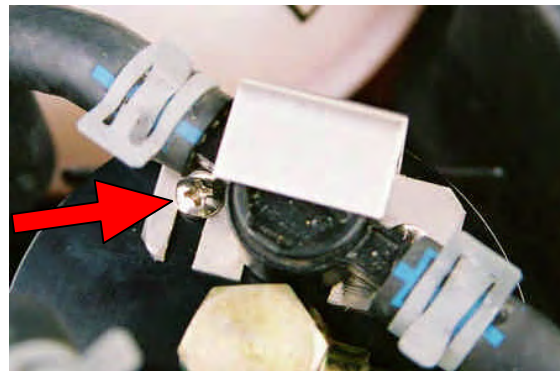
13. Stretch the filter band slightly to accommodate the Cat filter (it is slightly larger in diameter). Note the air conditioner line at the bottom of the fuel filter area. When installing the CAT filter, be sure that the filter does not touch the A/C line (green arrow). You can put a piece of heater hose over the A/C line for extra protection.



14. Slightly loosen the two screws which hold the thermostatic tee bracket to the filter adapter, and slide the bracket out of the way.
15. Fill the filter with diesel fuel or a fuel additive through the tee hole to prime (skip this step if you are using a vacuum pump to prime the filter).
16. Insert the tee into the filter adapter. Slide the bracket back over the tee. You may need to use a small screwdriver to pry the top of the bracket over the tee. Make sure that the bracket is fully seated against the screws.



17. Twist the tee to expose the bracket screws below the tee. Tighten the screw, then twist the tee the other way to tighten the other screw.



18. Connect the fuel inlet hose to the banjo fitting and secure it with the spring clamp. The inlet hose (from the fuel tank) should be connected to the outer threaded hole on the adapter plate. Snug the banjo fitting with a wrench (it will be fully tightened later)
19. (Optional) If using a vacuum pump to prime the filter, connect the pump to the filter outlet banjo fitting. Maintain a slight vacuum on the filter until you see fuel in the vacuum hose.





20. (Optional) Once you see diesel fuel in the vacuum hose, remove the vacuum and disconnect the hose. The filter is now primed.



21. Connect the fuel line which feeds the engine to the filter outlet banjo fitting.
22. Place a strap wrench around the filter adapter. Tighten both banjo bolts to approximately 30 ft-lbs.



23. Adjust the filter in the holder to make sure that it is not touching the A/C line below it. Push the filter down until it touches the A/C line, then lift it back up approximately 1/4".
24. Install the filter holder clamp. Make sure that the bends in the clamp fit over the bends in the filter holder, similar to how the OEM filter clamp worked. Snug the filter clamp (do not over tighten). Since the CAT filter is slightly larger, it should not move once the clamp is snug.



25. Place fuel lines back under all hold downs.
26. Check the clearance between the top of the fuel filter and the hood. Make sure there is adequate clearance. Do not slam the hood down before checking. Adjust the filter as necessary.
27. Start engine and check for leaks.

