

Installation Manual  
FUEL TANK VENT KIT  
P/N 0307-TVK



2003-2009 DODGE CUMMINS

# Fuel Tank Vent Kit

Installation Instructions  
Fuel Tank Vent Kit p/n 0307-TVK

**PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION**

# **WARNING!!!**

This modification allows you to use the expansion space designed into the tank by the factory.

This modification may void the warranty on your fuel tank.

This modification has not been crash tested.

Glacier Diesel Power, Inc. accepts no liability for damages that may arise from the installation of this product. If you have any doubts regarding the installation of this product please return the kit to Glacier Diesel Power, Inc. for a full refund minus freight charges. By making this modification you release Glacier Diesel Power, Inc. from all liability and/or damages.

## **Safety Guidelines!**

**WARNING!** Always secure the vehicle from rolling.

**WARNING!** Always disconnect vehicle batteries before working on electrical components.

**WARNING!** Always wear safety glasses when operating power tools such as drills and grinders or using punches and chisels.

**WARNING!** Always properly secure fuel lines and wiring to prevent chaffing.

**WARNING!** Always have a fire extinguisher available when working with fuel systems.

## **WORK SAFELY!**

## Fuel Tank Vent Kit Contents



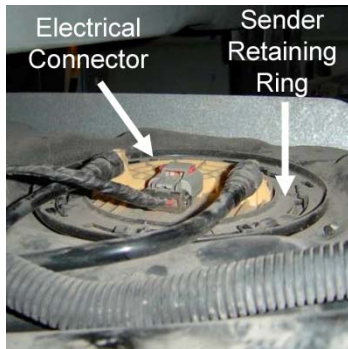
<u>Qty</u>	<u>Item Description</u>
1	3/4" x 3/8" NPT Barbed Straight
1	3/8" x 3/8" 90 Elbow
1	Bulkhead fitting
1	Beveled Aluminum Washer
1	O-ring
1	1/2" Plug
5'	3/4" Fuel Hose
2	Hose Clamps (not shown)

Please check your parts inventory against the above parts list before beginning your installation.

## General Preparation

- 1) Secure vehicle from rolling.
- 2) Disconnect both batteries.
- 3) Raise vehicle and support safely.

## Fuel Tank Prep



Stock Reference Photo



Photo 1A



Photo 2B

- 4) Before lowering the tank, check the area where the bulkhead fitting will mount and make sure there is no cross member that will interfere with the fitting. Mark the tank so that you know where the cross members are and where the clear area above the rear part of the tank is located.
- 5) Disconnect the tank vent line from the connection at the metal filler tube. Remove the rubber fill hose connection at the metal filler tube. Disconnect the suction and return line from the top of the sending unit. Disconnect the factory electrical connector from the top of the sending unit.
- 6) Remove the fuel tank from the vehicle. Having the tank very close to empty will make this task much easier.
- 7) Make a reference mark on the tank, retaining ring and sending unit for realignment during reassembly.
- 8) Remove the sending unit retaining ring from the top of the fuel tank by tapping it lightly with a mallet and punch in a counter clockwise direction. On '05-'09 trucks this will be a black metal retaining ring. On '03-'04.5 trucks this will be a large white plastic nut.
- 9) Once the retaining ring is removed carefully lift the sending unit out of the tank making sure not to bend the fuel level float arm.

- 10) Drill a **15/16"** hole in the tank in the area shown in the Photo 1A. Make sure not to oversize the hole. You want to be able to thread the bulkhead fitting in.
- 11) Assemble the bulkhead fitting and new tank vent connection as shown in Photo 2B. Make sure that the bevel on the aluminum washer faces the O-ring. Thread the bulkhead fitting down into the hole until the O-ring makes contact with the tank. Install the locking star washer and nut onto the bulkhead fitting. Tighten the nut on the bulkhead fitting. Install the 90° fitting combination in the top of the bulkhead using thread sealer if available and tighten.
- 13) Reinstall the pickup module making sure that your marks are lined up and that the retaining ring engages all seven locking tabs.
- 14) Attach one end of the new vent hose to the PushLok 90 of the new vent fitting using one of the supplied hose clamps & reinstall the fuel tank. Reattach the factory electrical connector and fuel lines at the sending unit. Reinstall the fill tube but **do not reconnect the factory vent hose**. Make sure not to pinch the new vent line between the top of the tank and the cross members when installing the tank!
- 15) Use the supplied 1/2" pipe plug and clamp to plug the end of the factory vent hose as shown below.
- 16) Route the new vent hose up to the factory metal filler neck assembly. Cut the hose to length and attach the new vent hose to the factory metal vent line at the filler neck assembly. Your completed installation should appear as shown below.



- 17) Check all connections and make sure all wires and hoses are clear of moving parts.
- 18) Test drive the vehicle.

Enjoy the quick fill-ups provided by the GDP Fuel Tank Vent Kit! If you have any problems or questions please contact Glacier Diesel Power at 509-993-4923. Thank you for your business and I look forward to helping you with your future accessory needs.

Sincerely,

Richard Martin @ GDP

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Under no circumstances will the SELLER be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

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