

Billet Aluminum Fuel Pickup Kit

2009-2010 GM Duramax

(113054000)

Installation Guide

*NOTE: Before beginning installation, you will need two disconnect tools for fuel lines. The **BLUE** tool in the figure below corresponds to 3/8" diameter and is used to remove the return line; the **RED** tool in the figure below corresponds to 1/2" diameter and is used to remove the fill line. You can purchase these tools at an auto parts store or Snap-on, Mac or Matco.*



GM Fuel Line Disconnect Tool (Matco Set Pictured)

CAUTION: Installation of this kit should only be performed by persons knowledgeable in the repair and modification of high performance automotive fuel systems.

WARNING: Fuel system may be under pressure!

Do not loosen fuel system connections until relieving pressure. Fuel may leak when loosening fuel system connections. Eliminate potential fire hazards before loosening any fuel system connections. Always wear appropriate personal safety equipment such as safety goggles and other apparel as needed, for protection from debris and sprayed diesel fuel. Work in a well-ventilated area and keep an approved fire extinguisher nearby. Extinguish any open flames and eliminate all sources of ignition in the area of the vehicle before proceeding with the installation.

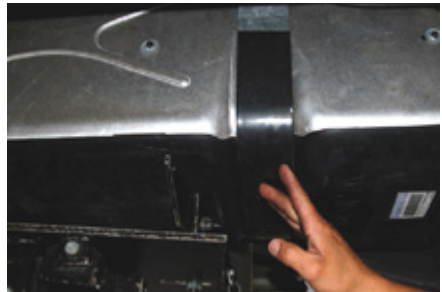
Step 1

Remove drive shaft to allow for easy access to fuel tank.



Step 2

Remove tank straps (Use jack to hold in place).



Step 3

Remove clamp from fuel hose.



Step 4

Disconnect return and fuel lines by disconnecting fuel line clips.



Step 5

Lower fuel tank to allow easy access to sending unit (no image).

Step 6

Disconnect sending unit sensor plug.



Step 7

Disconnect sending unit sensor plug.



Step 8

Remove sending unit bracket.



Step 9

*Remove sending unit from fuel tank
(Be sure to drain fuel).*



Step 10

Remove sending unit level.

Step 11

Remove larger plastic corrugated hose from sending unit.



Step 12

Cut bridge as indicated below. Hole should measure 2.050 in.



Step 13

Once bridge has been cut, sending unit should look like this.



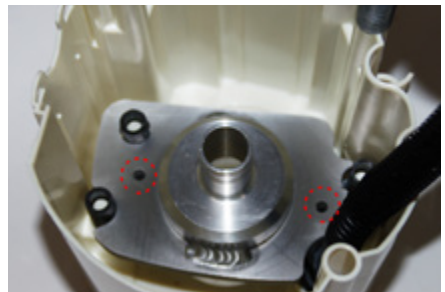
Step 14

Once bridge has been cut, sending unit should look like this.



Step 15

Drill .09375 (3/32in.) screw holes through plastic using fuel pick up as a guide.



Step 16

Deburr and clean out any debris.



Step 17

Lubricate 5/8in fuel line and connect to fuel pickup.



Step 18

Install fuel pickup using screws and lock washers(Do not over tighten screws)



Step 19

5/8in. hose length can be shortened. Depending on the installed height of sending unit in fuel tank.



Step 20

Secure 5/8in. hose using hose clamp provided in kit.



Step 21

Connect float level to sending unit.

Step 22

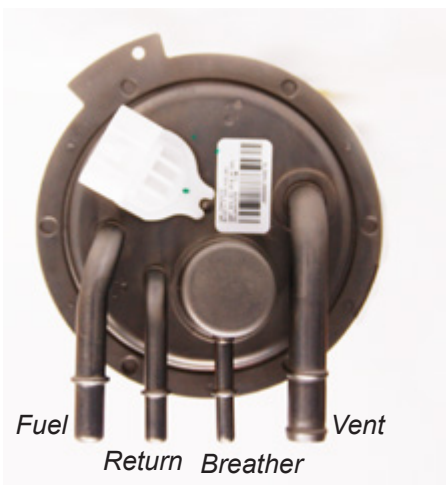
Install completed sending unit into fuel tank.

Note: GM sending unit is spring loaded and not fixed in length, 5/8in. pickup hose affects installed height of sending unit. Length of 5/8in. hose may vary depending on the depth of fuel tank. Refer to steps 19-20.



Step 22

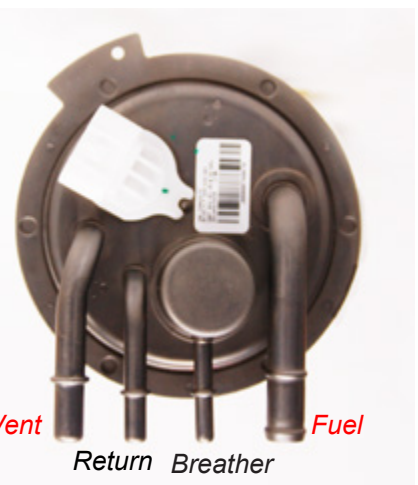
Fuel and vent lines need to be routed as pictured below.



Fuel Return Breather Vent

Return Breather

Stock sending unit configuration



Vent Return Breather Fuel

Return Breather

Modified sending unit configuration

Step 23

Reconnect vent, return, and fuel lines using modified configuration, sending unit sensor plug, fuel tank straps and fuel hose.

DISCLAIMER OF LIABILITY

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

This agreement sets forth the terms and conditions for the use of PPE products. The installation of this product indicates that the Buyer has read and understands this agreement and accepts the terms and conditions. PPE (Pacific Performance Engineering) Inc., its distributors, employees, and dealers (the "Seller") shall not be responsible for the product's proper use and service. The buyer hereby waives all liability claims. The Buyer hereby acknowledges no reliance on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof, and the Buyer hereby waives all remedies or liabilities expressed or implied, arising by law or otherwise (including without any obligation of the Seller with respect to fitness, merchantability and consequential damages), or whether or not occasioned by the Seller's negligence. The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the Buyer agrees to indemnify the Seller and to hold the Seller harmless from any claim related to the item of equipment purchased. Under no circumstances will the Seller be liable for any damages or expenses by reason of use or sale of any such equipment. The Seller assumes no liability regarding the improper installation or misapplication of its products. It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer. The Buyer is solely responsible for all warranty issues from the manufacturer.

LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer.

Limited lifetime warranty on all PPE cast aluminum products, and PPE Transmission Coolers. Three (3) year limited warranty on PPE Manifolds and Up-Pipes Kits, and OEM-Length Up-Pipes. One (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.



PPEpower.com