

1999-04 Chevrolet GMC

1500 2500 1500HD 2000-03 2500HD 3500

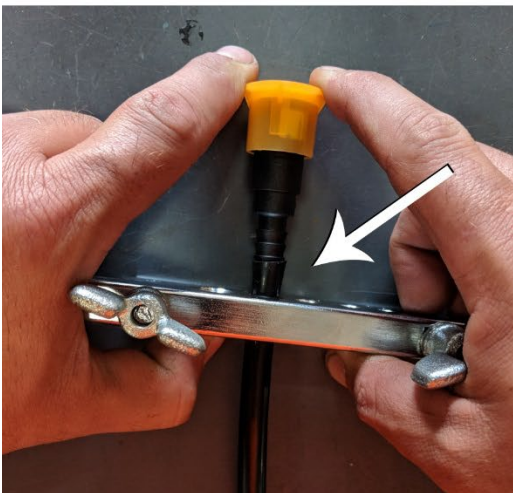
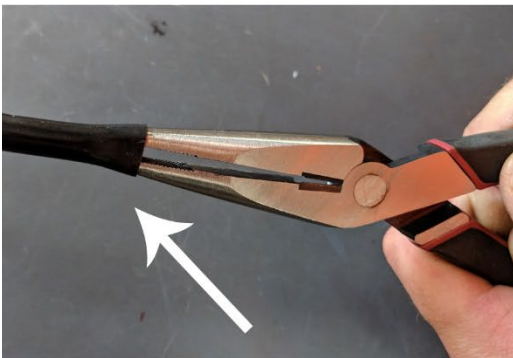
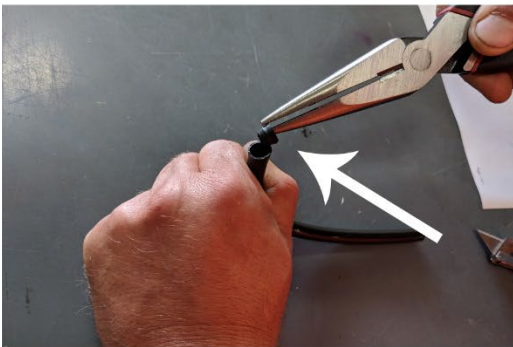
Fuel Return Line & Vapor Fuel Replacement Kit

Take time to read all the literature that came with this kit. All Flexible Nylon Fuel kits can be installed into the factory clips and clamps or you can use the new plastic ties that are provided in the kit.

1. Disconnect the existing fuel lines at the front of the fuel tank and at the engine side. Discard or leave in place. To disconnect the fuel lines, you need the disconnect tool (inline tube Part # TLF10) no need to Remove the fuel tank or charcoal canister.
2. **Main Fuel Line:** Start at the fuel tank with the short green 20" piece, the push connect tube snaps into the existing tank plastic line the other end connects to the fuel filter. The second green line goes from the fuel filter to the engine. Start running the new lines to the front of the vehicle. The new quick connect fuel filter will be in the same location as the existing filter. Remove quick connects at the back of the engine, again you will need disconnect tool (inline tube Part # TLF10) Route the ends that have plastic shielding up and over the transmission then connect it to the engine. Do not kink or pinch the line and also be sure to keep away from any exhaust pipes, moving parts or linkage. Once they are in place, if the line is too long cut anywhere in the line and use the blue-black union to connect back together.
3. **Fuel Return Line:** Repeat step 2 for the fuel return line. Install at fuel tank, the tank end is the metal tube and the engine side is the female quick connect. Cut nylon fuel return line to length as needed and connect with the black/blue plastic female push union to the desired length.
4. **Vapor tank line:** has a white 90° quick connect fitting on one end, with the black/blue plastic female push union or fuel hose with clamps on the other end. Disconnect the existing old line coming out of the charcoal canister at the front of the fuel tank. Snap in place the white 90-degree end and route it towards the engine to the green capped Tee Schrader Valve. Cut the nylon line going into the Schrader valve where the nylon is straight and connect new line using the Nylon to Nylon connector black/blue plastic female push union or use the fuel hose and clamp both ends. AFTER the line is routed cut the extra nylon line off and push into the nylon connector.
5. Apply the "**CAUTION FUEL LINE**" sticker to all new fuel lines so that future mechanics know this is a fuel line.

SAFETY FIRST:

1. Never smoke in or near repair bays or garages. Vehicles contain flammable and combustible fluids which can easily be set on fire if they come into contact with fuel.
2. Make sure to drain all fuel lines or any component that may have fuel in it that can come in contact with spark, heat or flame. Do not work on vehicle while running or after being run or while hot. Let vehicle cool down for a couple of hours before working on fuel lines.
3. Keep work areas clean and organized. Pick up rags and tools to keep work area clear and free.
4. Wear protective gear at all times, as appropriate for the repair. Goggles, gloves.
5. Make sure fire extinguishers are easily accessible and appropriate for all potential fire types. In the event of a fire, extinguishers need to be accessed quickly.
6. Always disconnect the battery when working on fuel systems.
7. Never work underneath a vehicle unless it has been properly supported. Raising the vehicle off the ground to access the underside requires verifying it is stable.
8. Always remove the keys from the ignition switch. as the key can draw an electrical charge from the battery, there is a risk of electrical shock, and/or electrical spikes that may spark.
9. Be aware of the vehicle's temperature before beginning any work. The engine, manifold, exhaust system, and radiator could be hot and cause skin burns or fire.



- Cut old outer covering near the end of the fuel fitting barb. Leave 1/8" on to the existing barb and cut around it with a knife. Cut where indicated, this leaves a larger opening in the nylon to start the new quick connect. By leaving 1/8" the end is already expanded for the new fitting
- Remove the remainder of the old quick connect barb from the nylon tubing using long nose pliers. Clamp on and put it out.
- Using long nose pliers, flare out the opening of the nylon hose for ease of sliding in the new fitting or connector. (You may want to use a tube flaring tool to hold the nylon tube while working on it- leave 1/2" sticking out and stretch with long nose pliers.)
- Place Nylon hose into the tube flaring tool. You may want to lubricate the new connector barb with grease or oil before you push the new fitting into the nylon hose.
- Lines sizes
 - Main Fuel Line Green or 3/8"
 - Fuel Return Line Blue or 5/16"
 - Fuel Vapor Line White 5/16 or 1/4"