

## 2005-10 Chevrolet Cobalt-2003-07 Saturn Ion-2007-10 Pontiac G5

### (also HHR But Discard the fuel Filter)

### Fuel and Vapor Line From Fuel Tank Line (Filter) to Engine

**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.**

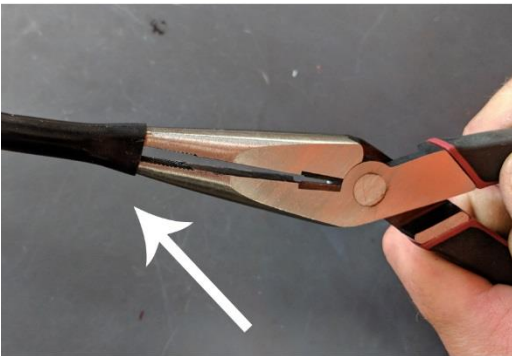
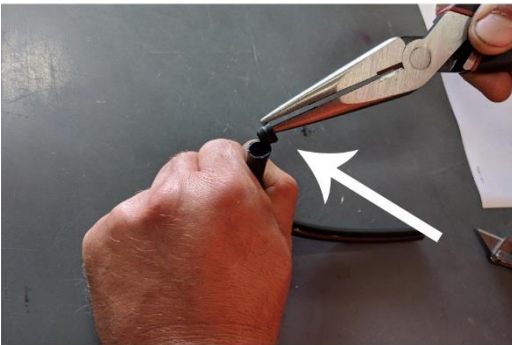
1. Remove old fuel filter or steel line from plastic tank line. The steel line out of filter or line will require a disconnect tool to remove the existing line. (**Leave the old fuel filter bracket in place as the bolt can break off**). To disconnect the fuel lines, you need the disconnect tool (inline tube Part # TLF10). Install the new fuel filter in place of the old filter.
2. **Main Fuel Line:** Disconnect the main fuel line at the fuel filter or tank line, Install the new green marked nylon tube with the filter attached (IF HHR disconnect line from filter and discard filter). Route the new line over the exhaust and let it suspend free. Run this line in the existing clips all the way forward to the engine compartment. Connect the metal quick connect end to the engine line.
3. **Fuel Vent Line:** Installing the white fuel tank vent line, it runs from the canister to a good clean connection point at the engine nylon tube. Snap the 90-degree fitting on the charcoal canister and run towards the front of the car. Push the lines up as high as possible, behind the old heat shield and wire tie into place as you work to the front.
4. Cut nylon line at the purge valve, Connect new line with nylon to nylon connector. Note: The line closest to center is the main fuel line and the next one over is the vent line. Make sure you have the nylon tubing where you want it and cut them with side cutting pliers, knife or tubing cutter. Install the union fitting to each nylon line and then to the existing plastic tube.
5. Clean up the routing areas of lines – make sure the line is not rubbing on anything.
6. Apply the **“CAUTION FUEL LINE”** sticker so that future mechanics know that this is a fuel line.
7. General Note: If the steel lines are rusted at the quick connects, see next page of directions on how to install new quick connects on the lines. (Instruction sheet Replacing Quick Connect)

#### **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 acceptable 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.

## Replacing Quick Connect

NFR0014



- Cut old outer covering near the end of the fuel fitting bar. 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 bar 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"