

1997-2003 Pontiac Grand Prix / Impala, 3.1L ONLY

Fuel line kit, Main fuel line from filter forward and return fuel and vapor from female quick connect tank 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.

Removal: Disconnect main fuel line at the filter and remove old filter. To disconnect the fuel lines from the pump / sending unit, filter or engine lines, if needed use disconnect tool (inline tube Part # TLF10) or similar. Also remove the fuel return line and vapor line at quick connect fittings. Now move to engine compartment and disconnect the fuel lines at engine. Wait on vapor line until you reference the attached picture in step 3. Mount new fuel filter in the same location as original using new bracket and self taping screw. Install old rear half of fuel line to the filter.

1. **Main Fuel Line:** Find the main fuel (green line) in the new nylon kit and snap the angled female quick connect fitting onto the fuel filter. Run line forward in the same routing as existing line and attach the 90 degree fitting to the fuel rail.
2. **Fuel Return Line:** Find the fuel return (blue line) in the new nylon kit and snap the metal tube end to the existing female quick connect fitting. Run line forward in the same routing as existing line and attach the 90 degree quick connect to the fuel rail.
3. **Fuel Vapor Line:** Find the fuel vapor (white line) in the new nylon kit and snap the metal tube onto the existing female quick connect fitting. Run the line forward in the same routing as existing line, find existing vapor line on engine look for green 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. **Refer to attached picture.** AFTER the line is routed cut the extra nylon line off and push into the nylon connector.
4. Clean up the routing areas of lines – make sure the line is not rubbing on anything.
5. Apply the **“CAUTION FUEL LINE”** sticker so that future mechanics know that this is a fuel line.

IMPORTANT SAFETY INFORMATION

- 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.
- 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.
- Keep work areas clean and organized. Pick up rags and tools to keep work area clear and free.
- Wear protective gear at all times, as appropriate for the repair. (Goggles, gloves, respirator, etc.)
- 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.
- Always disconnect the battery when working on fuel systems.
- 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.
- 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.
- Be aware of the vehicle’s temperature before beginning any work. The engine, manifold, exhaust system, and radiator could be hot and can cause skin burns or fire.

