

## 1993-2004 Dodge Ram Pickups (1500, 2500, 3500)

Gasoline "Return-Less" vehicles ONLY

Main fuel line from tank to engine flex fuel line

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.

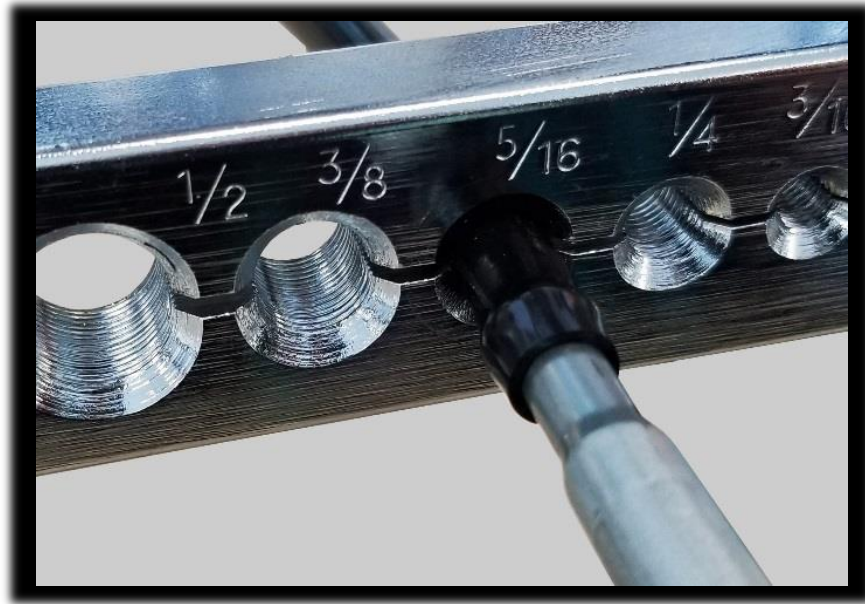
### **This kit can be installed without fuel tank removal.**

1. **Removal:** Locate the existing nylon fuel line going to the fuel pump sending unit, it is between the box and frame and cut the existing line near the fitting. To disconnect the fuel lines from the pump / sending unit, fuel filter or front engine lines, you need the disconnect tool (inline tube Part # TLF10) or similar. You can remove the old fuel lines from the clips and reuse them or zip tie new lines to the side of the old lines. Take off the old quick connect clip, a new one is provided in the kit.
2. **Main Fuel Line:** Find the main fuel green line in the new nylon kit and snap the angled female quick connect onto the sending pump unit. The new line will route just like the old one on the top of the frame down the front of the fuel tank to the front of the truck and connects to the existing stainless braided engine line. Route into the existing clips or zip tie into place. Cut to fit the new nylon line to length and install metal tube into the end of the line see page 2 for this install. Snap into existing braided stainless line once cut to length.
3. Clean up the routing areas of lines – make sure the line is not rubbing on anything.
4. Apply the "**CAUTION FUEL LINE**" sticker so that future mechanics know that this is a fuel line.
5. Start the truck and check your work by looking for leaks before driving the vehicle.

#### **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 accessible 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.

## Installing fitting to nylon tubing



1. To help with the installation of the metal tube into the nylon tube, use the clamp jaw from any standard flare too to hold the plastic tubing so that you can work on it. Clamp into the appropriate size hole on the bar leaving  $\frac{1}{2}$ " sticking out.
2. Using long nose pliers, flare out the opening of the nylon hose for ease of sliding in the new fitting or connector.  
Stretch the end by sliding the and opening them to create a slight flare on the end so the tube will get start with ease.
3. Have your pinch clamps already on the line, lubricate the fitting or tube and gently push fitting into the nylon tubing.
4. Secure the supplied clamps in place and with side cutting pliers, two clamps are provided although only one is needed to secure line.