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Installation Guide for FORD SPRING LOCK FITTINGS.

Dear valued customer;

Thank you for your purchase. Included in your package:

a) Viper cell®
b) Install kit; One nylon hose with a male 14.17mm (5/8) male Ford spring lock fitting, One nylon hose with a brass female x 5/16 hose barb, one #8 female springlock fuel fitting, One ½" compression x ¼ male NPT adapter, 2 wire ties.
c) Viper Cell Window Sticker

Assembly: It takes only minutes. ***Only to be done by a qualified mechanic***. ***Only use Yellow high Temperature Teflon Tape. Using anything else may result in loss of seal due to heat, vibration, cold, etc and may result in leaking which could lead to injury or fatality.*** This can be found at any plumbing supply or Home Depot. Be sure to wrap the Teflon tape 3 times around the threads before inserting the threaded fitting into the cell. The male nipple compression fitting goes in one end and the 90 degree brass hose adapter goes in the other. When threading fittings into the Viper Cell be sure to run them all the way in until no threads are exposed. Failure to do this could cause leaking of gasoline. For your

safety and the validity of your warranty we strongly recommend you have a qualified mechanic do this simple assembly. It takes only minutes.

Assembly

Most importantly; Safety. **We strongly recommend that this device be installed by a qualified mechanic.** The installer is recommended to wear eye and hand protection at all times. NEVER have an open flame, cell phone, heat source of any kind when dealing with gasoline and its vapors. Make sure no loose clothing is being work. Engine should not be running during install. *Be sure to keep Viper Cell fuel injection hoses from coming into direct contact with hot engine parts or any vehicle parts such as exhaust manifold, etc., that may burn through the hose and start a fire.* Ensure that the Viper Cell does not come into contact with moving parts that may cut or damage the fuel injection hoses which may cause leaking. This may result in injury or fatality.

Part 1. Open the compression fitting and remove the round compression sleeve. Next place the #8 female springlock fitting into the compression nut. Then place the compression sleeve over the small end of the aluminum female fitting as shown in **Fig 1 and 2.**

Fig 1

Fig. 2

Part 2. Then tighten down the brass compression nut until there is no thread exposed.

Part 3. Next place Viper Cell in a vice and insert the male pipe thread fittings on the end of the hoses into each end of the Viper Cell so that it looks like this. Figure 3.

Fig. 3

Installation:

Make sure the vehicle is Cool or Cold before starting the following steps. Before beginning installation pull the fuel pump fuse or fuel system fuse. Then turn car on and use up the gas that is in the line. This will help prevent a spray of gas when your mechanic separatest the male-female springlock connectors. Mechanic is strongly encouraged to use eye and hand protection at all times.

1) **Fuel Rail Install (preferred):** Make sure engine is has quit running, from previous step, before continuing. Find the where the Spring lock male-female fuel union is located on the engine (Fig A), if reachable. Using the proper 5/8" OEM tool remove the factory male fuel line from the rail (Fig B). Attach the factory male spring lock to the female end of the Viper Cell. Then take the male Spring lock end from Viper Cell and insert it into the factory female end on the fuel rail. Make sure the connection is "locked" and secure. **Fig C**

Figure A

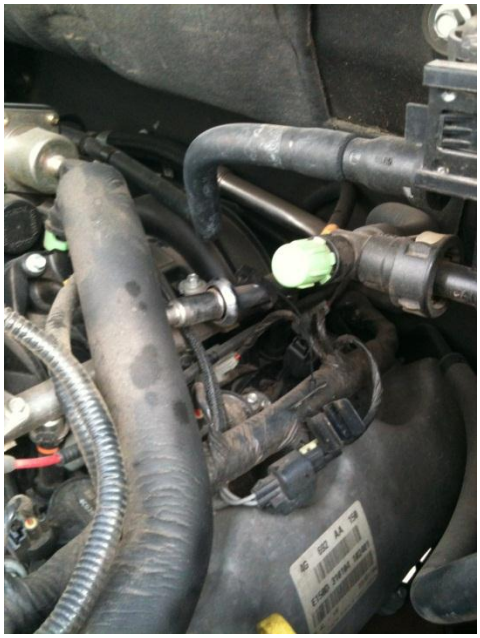

Figure B

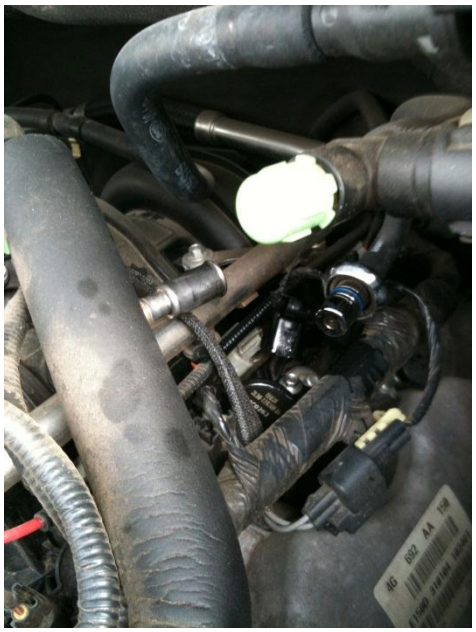

Figure A: As an example here you see the FORD Spring lock Male-Female union on a crown victoria just to the left of the greed cap. Figure B: After using the 5/8 fuel line removal tool you see the fuel rail female and male separated.

2) **Fuel Filter Install (optional):** ***This requires purchase of a Viper Cell with either 5/16 and 3/8 Quick connects.*** When fuel rail install is not possible due to difficult access you can simply opt to install on the engine side(clean side) of the fuel filter where applicable. Make sure your fuel filter has either a 5/16 or 3/8 quick connect male nipple. If so simply use the appropriate OEM fuel line removal tool to separate factory fuel quick connect from engine side of fuel filter. Then attach the female end of the Viper Cell. Ensure that it "locks" securely. Then use the other end of the Viper Cell (male end) and connect it to the factory fuel line female quick connect.

Secure the Viper Cell with the wire ties (tie wraps) provided in your install kit. Be sure to secure the Viper cell tightly. Be careful not to tie or secure it onto anything that may break, cut the fuel line, or damage your vehicle in any way.

Figure C:

Figure C: Viper Cell is easily attached in seconds. Make sure nothing is coming into direct contact with engine block, exhaust manifold or anything that will burn or rub through the fuel line.

3) **Start your vehicle: Replace the fuel pump or fuel system fuse.** The first time you start your vehicle it may take a couple of attempts until the gas passes through to the engine. After the first time this won't happen again.
4) **Check for leaks:** Be sure to let your engine run for 5 minutes and watch all your attachment points to ensure the installation has been done property and there are absolutely no leaks. If you see leaks have your mechanic check all fittings, threads and attachments. If this does not solve the problem immediately remove the device.