

DOMINION OFFROAD

(626) Trails1 or (626) 872-4571

JEEP JK 3.6 LITER EVAP CAN RELOCATION KIT P/N ECRK2

Bill of Materials and Installation Instructions

WARNING:

If you do not realize that Smoking, Sparks or any Open Flame are a very bad mix with these installation procedures, then we advise you to have someone else perform this installation. A small amount of highly flammable gas fumes will be released while performing this installation.

Installation time 40 to 120 Minutes. We've worked hard to create a kit and document that makes it easy. Any feedback on improving these instructions will be greatly appreciated by me, and our fellow Jeepers.

Please check and verify that all of the following components are included in your EC Relocation Kit. If any parts are missing, please notify us immediately.

- | | |
|---------------------------------|-----------------------------------|
| (2) Neoprene Foam Tape Strips | (1) $\frac{1}{4}$ " X 1" Hex Bolt |
| (3) Zip Ties | (1) $\frac{1}{4}$ " Flange Nut |
| (2) 90 Degree Plastic Elbows | (1) $\frac{1}{4}$ " Fender Washer |
| (2) 5/8" Long Fuel Vapor Hoses | (1) 5/16" X 3" Hex Bolt |
| (1) 5/8" Short Fuel Vapor Hose | (1) 5/16" X 1" Hex Bolt |
| (1) 3/8" Long Fuel Vapor Hose | (1) 5/16" Threaded Insert |
| (1) Evap Can Relocation Bracket | (1) 5/16" Nut |
| (2) Gold Hose Clamps | (1) 5/16" Washer |

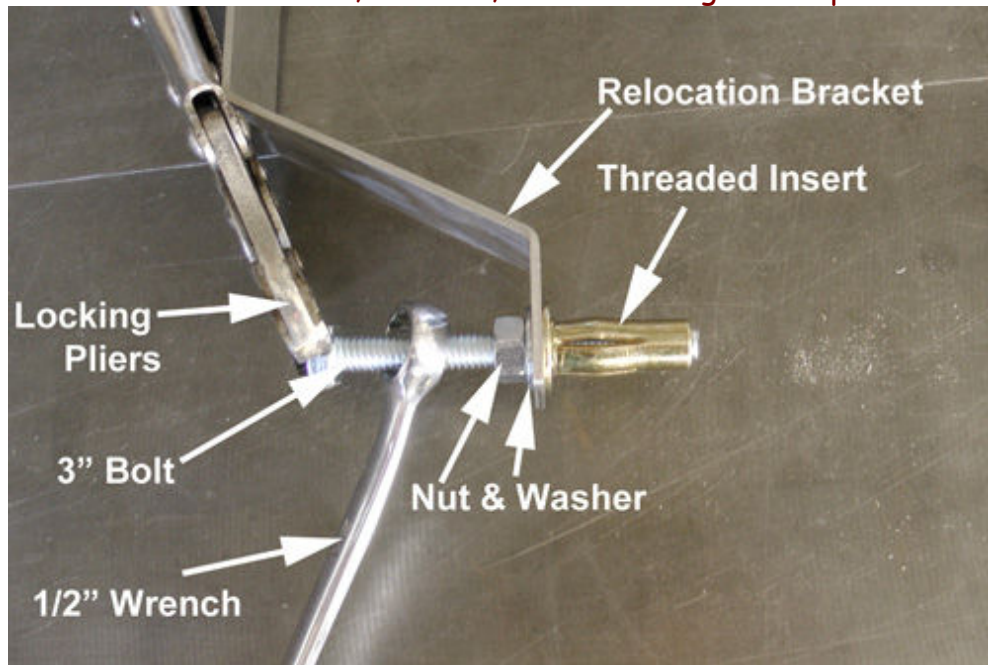
Required Tools and Materials:

- | | |
|-------------------------------|--------------------------------|
| 7/16" Socket or Wrench | Drill Motor and .25" Drill Bit |
| $\frac{1}{2}$ " Closed Wrench | Felt Tip Pen or other marker |
| 10mm Wrench or Deep Socket | Razor Knife or Blade |
| Ruler or Tape Measure | Locking Pliers (Vice Grips) |
| Primer or Paint | Pliers |
| Thread Locker | Dikes |
| 10mm Wrench or Deep Socket | |

Video tips are available (and well worth watching) for steps where you see ***VIDEO TIP***

Watch Tips and Tricks Vid at <http://youtu.be/3SRTYRTWrHU>

1. Threaded Insert, 3" Bolt, 5/16" Nut & Washer, 1/2" Wrench, Vice Grips, Relocation Bracket
 Assemble the Threaded Insert Tool, Bracket, etc. according to the picture:



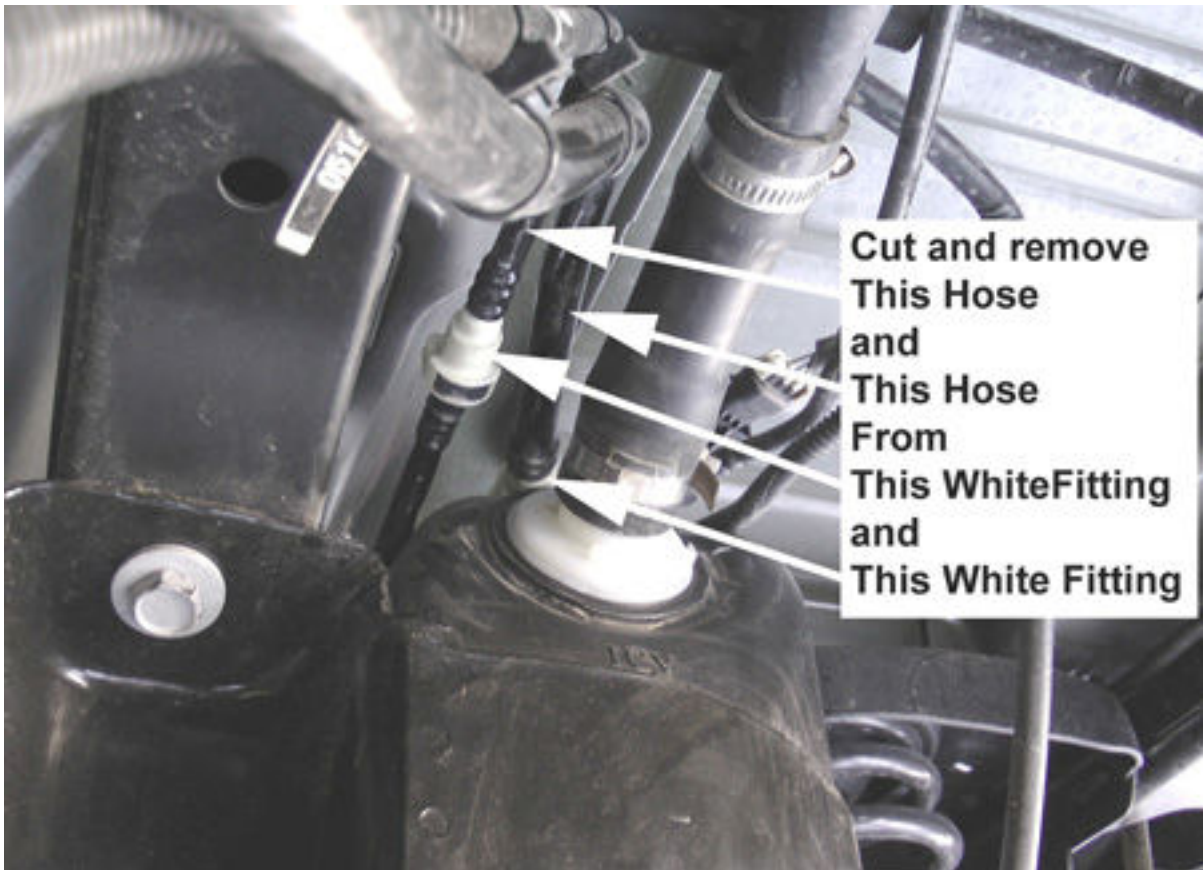
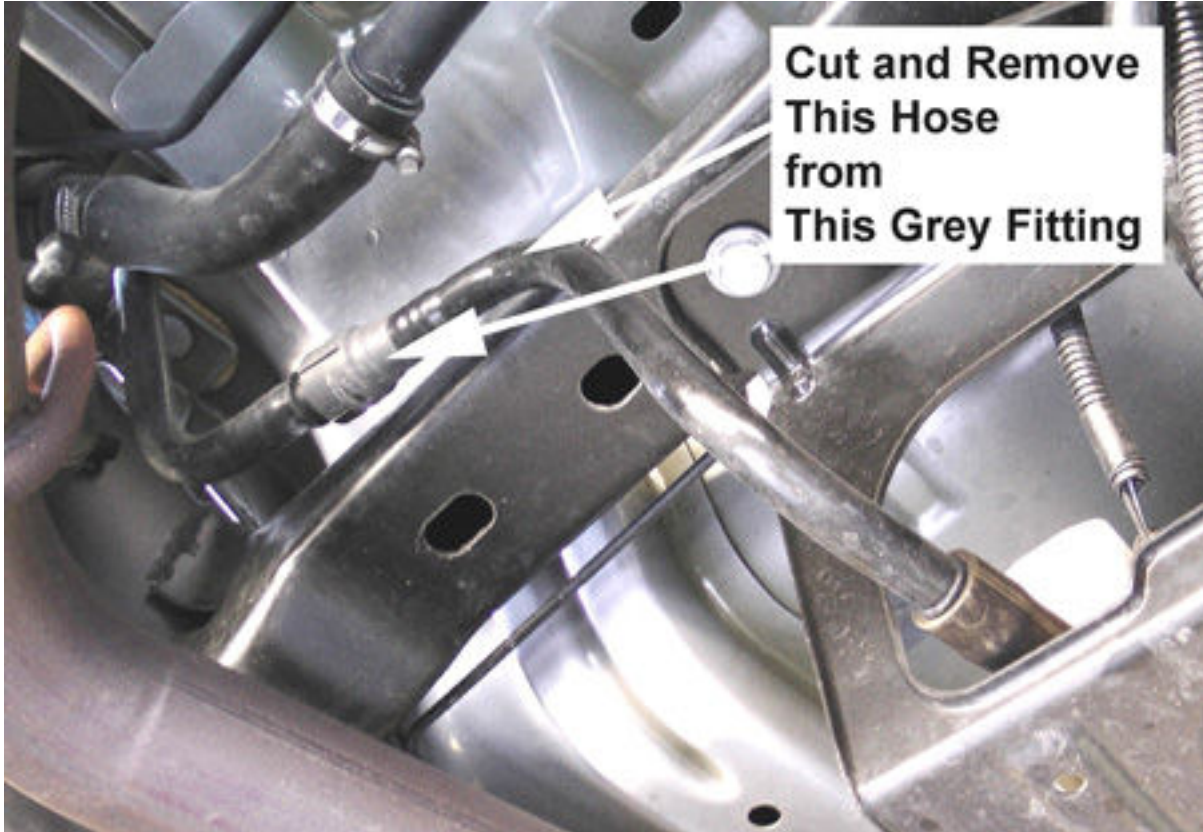
2. Locate the Factory Drilled Hole where the Threaded Insert will be installed.



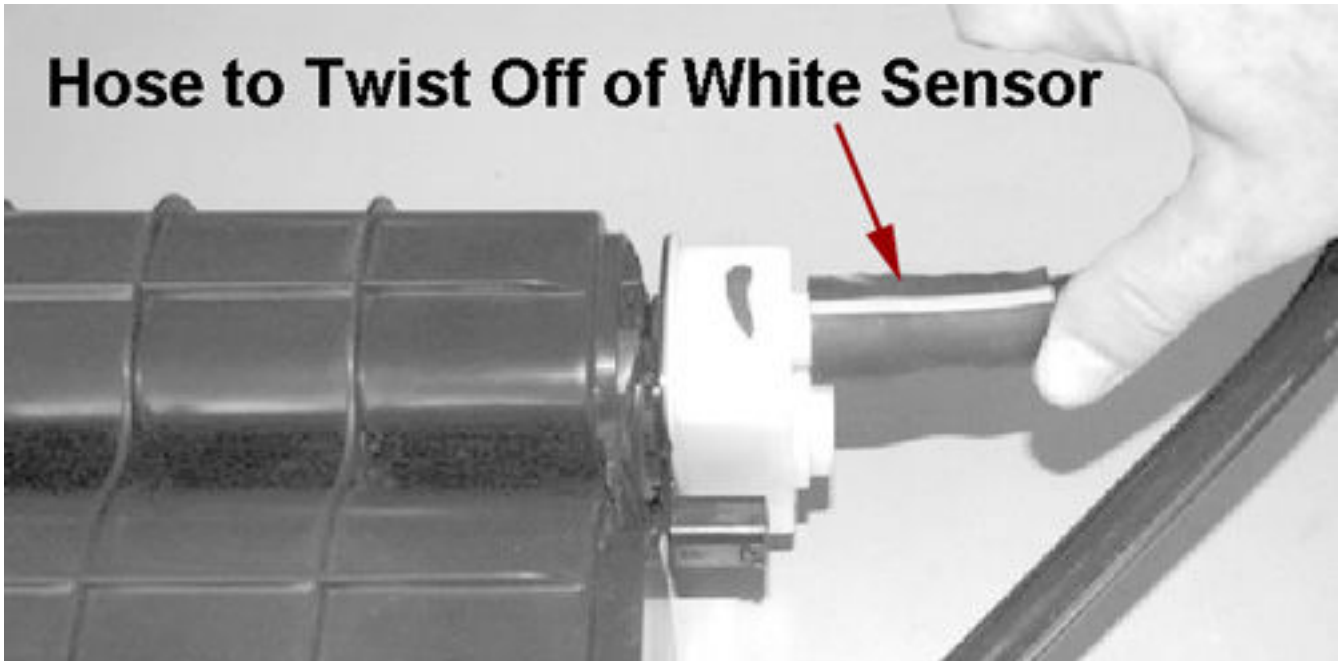
3. Install the Threaded Insert ***VIDEO TIP*** The Threaded Insert is installed by turning, **ONLY** the nut. When the nut is turned, the bolt will be pulled down, spreading and seating the Insert. The Relocation Bracket stops the Threaded insert from turning (which is required). Do not turn the Bolt and do not attempt without the bracket in place.

4. Razor Knife or Blade

☑*VIDEO TIP* Being careful, NOT to cut into the plastic fittings, disconnect the three hoses and shown in the following two pictures: It's well worth watching the Video here.



5. 7/16" Socket or Wrench Remove Factory EC and Mounting Bracket from Frame.
 6. 10mm Deep Socket or Wench Remove the Parking Brake Line Support Bracket.
 7. **WARNING: WHILE REMOVING THE HOSE IN THE THIS STEP, DO NOT LEVERAGE AGAINST THE NIPPLE ON THE WHITE SENSOR. THIS NIPPLE IS WEAK AND CAN BE EASILY BROKEN OFF. TWIST AND PULL ONLY.**
- *VIDEO TIP*** Carefully **TWIST** and Remove the Black Hose from White Sensor, as shown in picture. Retain the 2" Rubber Hose for use in installation later.



8. 7/16" Socket or Wrench Remove Factory EC and Mounting Bracket from Frame.
9. **Advisory:** Water works as a good lubricant on these plastic hose fittings. Dip the end of the hose fitting, before inserting it into the hose.

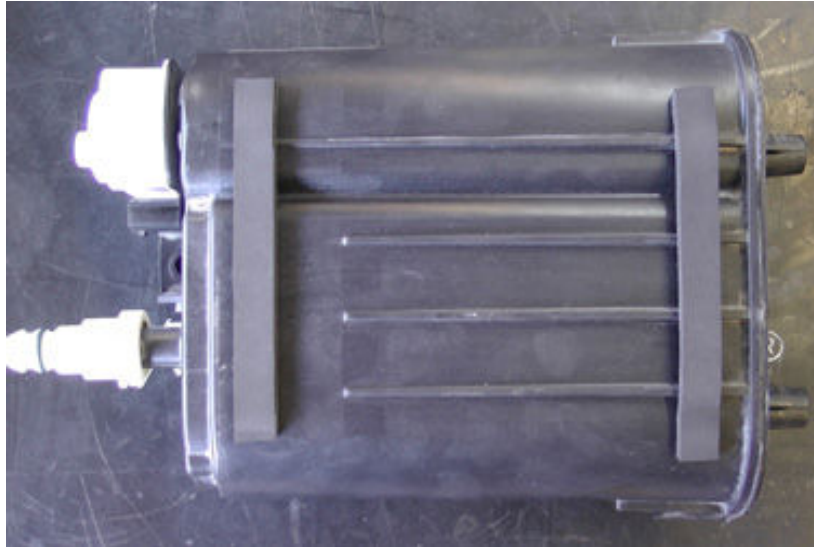
Two Plastic 90 Degree Hose Elbows, all (3) pieces of 5/8" Hose and Small 2" Rubber Hose from Evap Can Sensor.

- Build two hose assemblies as pictured:



10. Neoprene Foam Tape, Evap Can Relocation Bracket, Evap Cannister

Install the Neoprene Foam Tape to the TOP of the Evap Can as pictured:

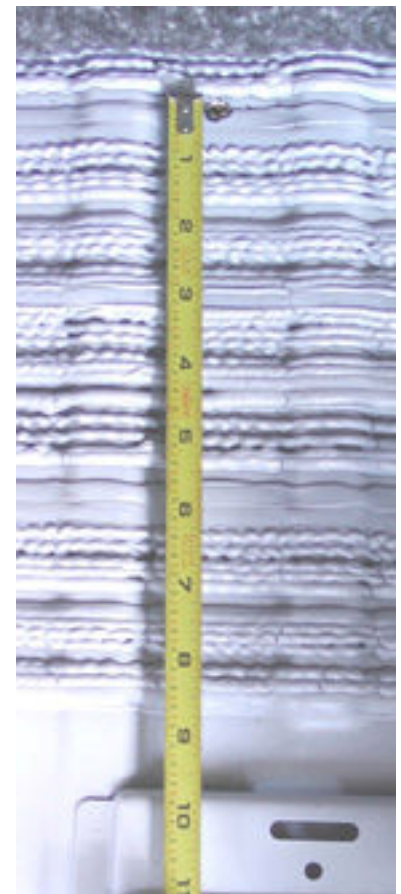
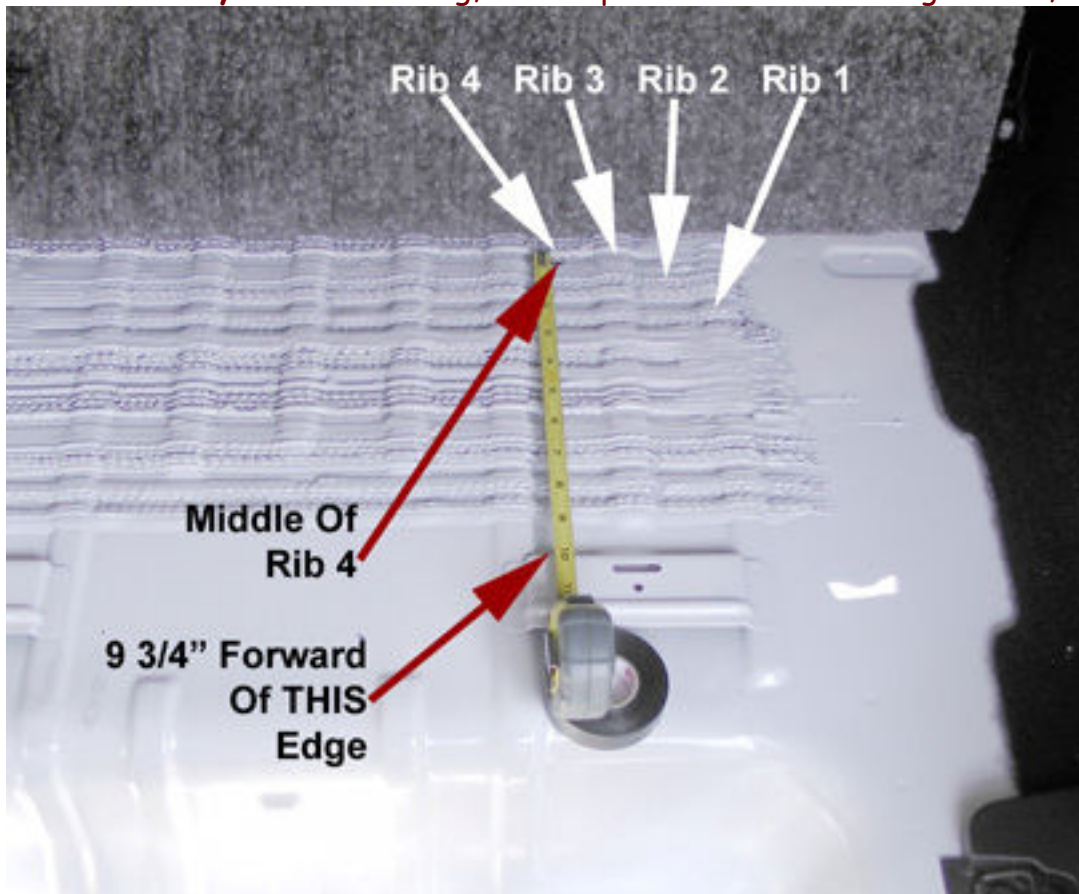


11. **WARNING: DO NOT DRILL WITH A REALLY LONG BIT. WE WOULD NOT LIKE IT IF YOU DRILLED INTO YOUR GAS TANK**

$\frac{1}{4}$ " Drill Bit, Drill Motor, Marking Pen and Tape Measure

From the Front of the Passenger Side Storage Tub Lid Bracket, Measure and Mark a Line at 9 3/4". At the Line, Drill a hole in the middle of the factory formed ridge #4, as indicated in the following pictures:

Advisory: After Drilling, touch up with Cold Galvanizing Primer, Rustoleum or similar.



12. Locking Pliers, $\frac{1}{4}$ " X 1" Bolt and Fender Washer

Using Locking Pliers to hold the $\frac{1}{4}$ " x 1" Bolt, place the Bolt and Fender Washer in the previously drilled hole. The Pliers will prevent the Bolt from turning while installing the nut.

13. Evap Can, Relocation Bracket, 5/16" X 1" Bolt, Thread Locker

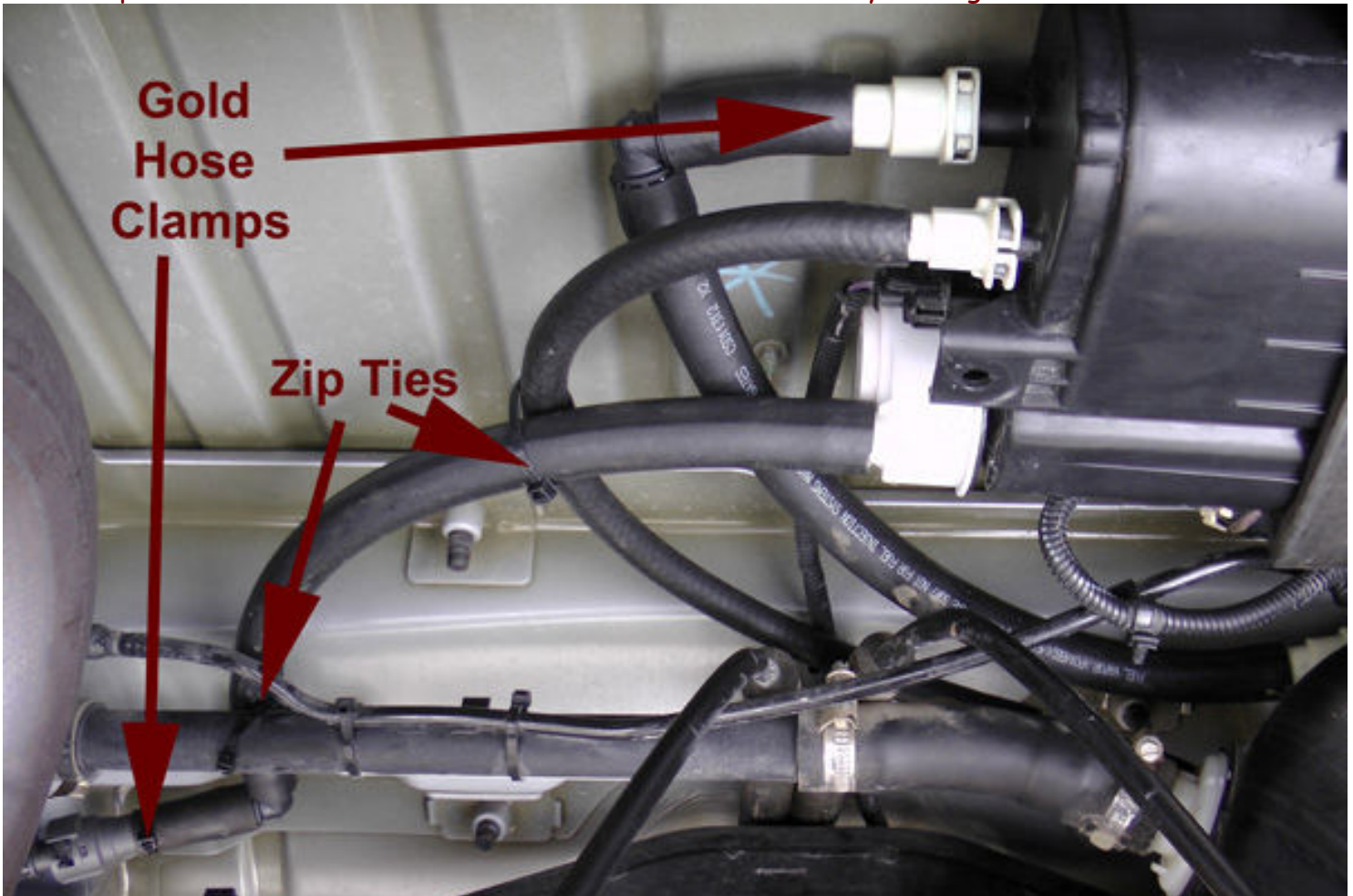
Under the JK, Loosely install the Evap Can into its new location. Tighten up the bracket when there is 1" clearance between the Passenger's Rear Upper Spring Perch and the Can.

14. Hose Assemblies, 1 Zip Tie, Short Rubber Hose previously removed from Evap Can Sensor.

Advisory: Installation is easier if you connect to the factory hoses, prior to installing the hoses on the Evap Cannister.

Route and Install hoses as indicated in picture below.

Zip Tie the 2" Rubber Hose where it connects to the Grey Fitting on the JK



15. 2 Zip Ties & 2 Gold Hose Clamps Zip Tie Hoses, where indicated in the Previous Picture.

Advisory: Vice Grips will make installation of the Hose Clamps much easier.

16. Dikes

One Factory Zip Tie will need to be cut and removed from the Sensor Wire. Re-route the Sensor Wire, over the Frame Rail and Re-connect the Sensor Wire.

The installation procedure is now complete.

Thanks,

Brett

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