

DOMINION OFFROAD

(626) Trails1 or (626) 872-4571

JEEP JK EVAP CAN RELOCATION KIT P/N ECRK

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 please have someone else perform this installation. A small amount of highly flammable gas fumes will be released while performing this installation.

Warning #2 Installation of this kit requires that you Drill One Hole in the Bed of the JK. If this modification is not acceptable, please return the kit for a full refund.

Installation time .75 to 2 hours. This procedure is complex, and I'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.

- | | |
|---|-----------------------------------|
| (1) Stainless Steel Evaporation Canister (EC) Mount Bracket | (1) 1/4" Hex Head Machine Screw |
| (1) Long Length Fuel Vapor Hose | (1) 1/4" Fender Washer |
| (1) Medium Length Fuel Vapor Hose | (1) 1/4" Flange Nut |
| (1) Short Length Fuel Vapor Hose | (1) 5/16" Short Hex Machine Screw |
| (1) 90 degree plastic elbow | (1) 5/16" Long Hex Machine Screw |
| (3) Zip Ties | (1) 5/16" Washer |
| (1) Gold Threaded Insert | (1) 5/16" Nut |

Required Tools and Materials:

- | | |
|--|-----------------------------|
| Standard Flat Head Screw Driver | 16mm Socket or Wrench |
| Drill Motor with 1/4" Bit | 10mm Wrench and Socket |
| Razor Knife | Ruler or Tape Measure |
| Primer and Paint to protect cut and drilled metal surfaces | 1/2" Closed End Wrench |
| Pair of Dykes (cutters to trim Zip Ties) | Locking Pliers (Vice Grips) |

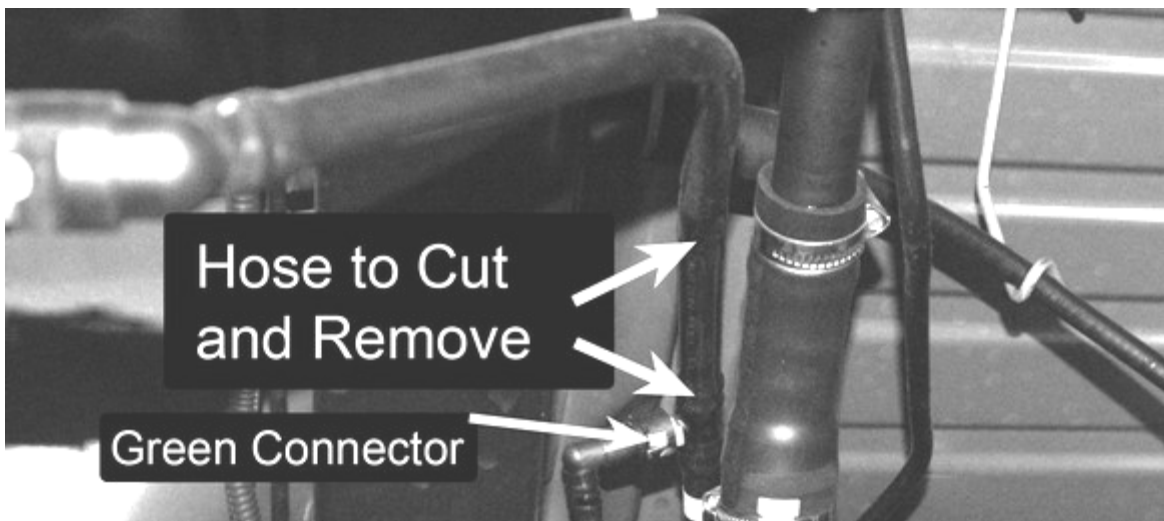
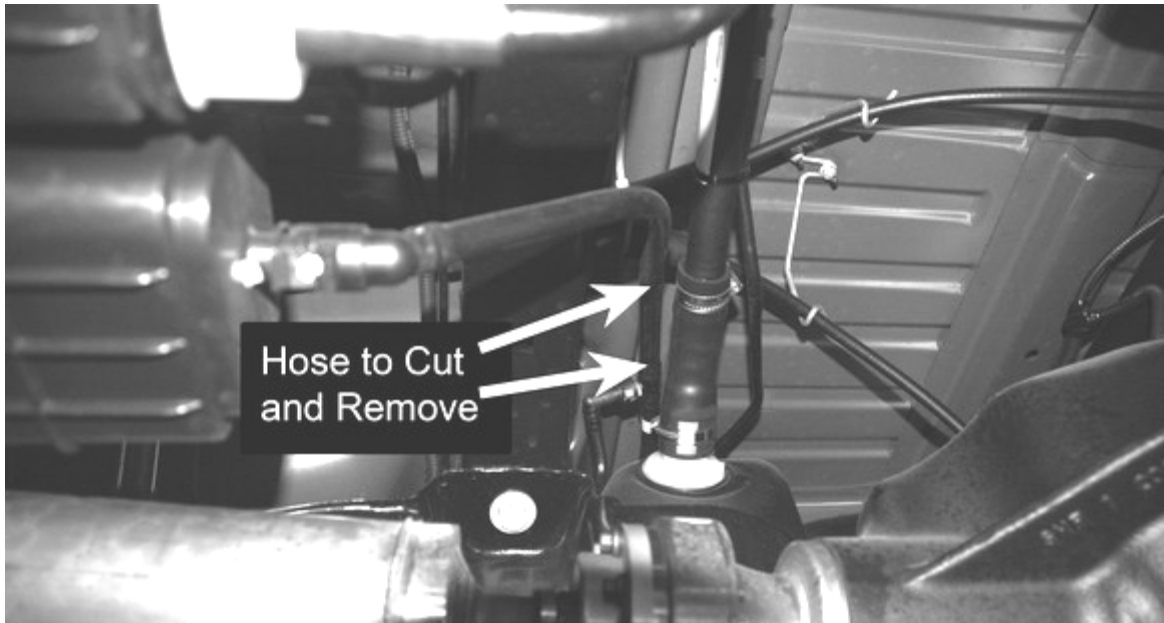
Video tips are available (and well worth watching) for steps where you see ***VIDEO TIP***

Watch Tips and Tricks Vid at <http://youtu.be/oyg9AtbiXAw>

UNDER THE JK

☑ Razor Knife

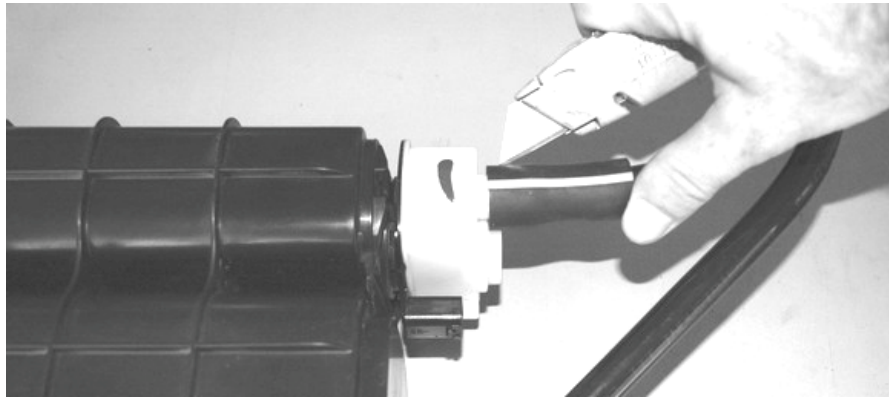
1. Being careful, NOT to cut the plastic fittings, cut and disconnect the fuel tank hose (pictured in step 2) and EC return hose as shown in the following two pictures:



2. Razor Knife

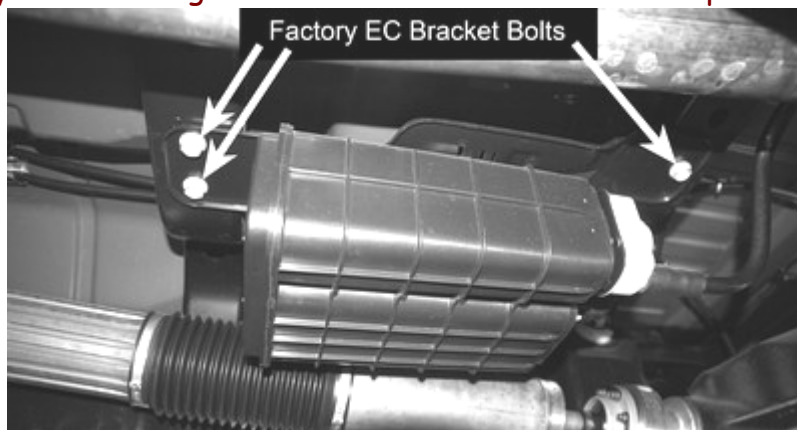
WARNING: DO NOT ATTEMPT TO PULL THE HOSE OFF OF THE FITTING. THESE FITTINGS CAN BE WEAK AND BROKEN EASILY.

- Taking care to NOT touch the plastic connector, Cut and Remove the Hose from White sensor as shown in picture:



3. 16mm Socket or Wrench

- Remove Factory EC Mounting Bracket from Frame as shown in picture:



4. 10mm Socket and Pliers

- Remove and Discard Factory Parking Brake Support Bracket as shown in picture below. Pliers may be required to remove bracket from Parking Brake Cables:



5. Flat Head Screw Driver

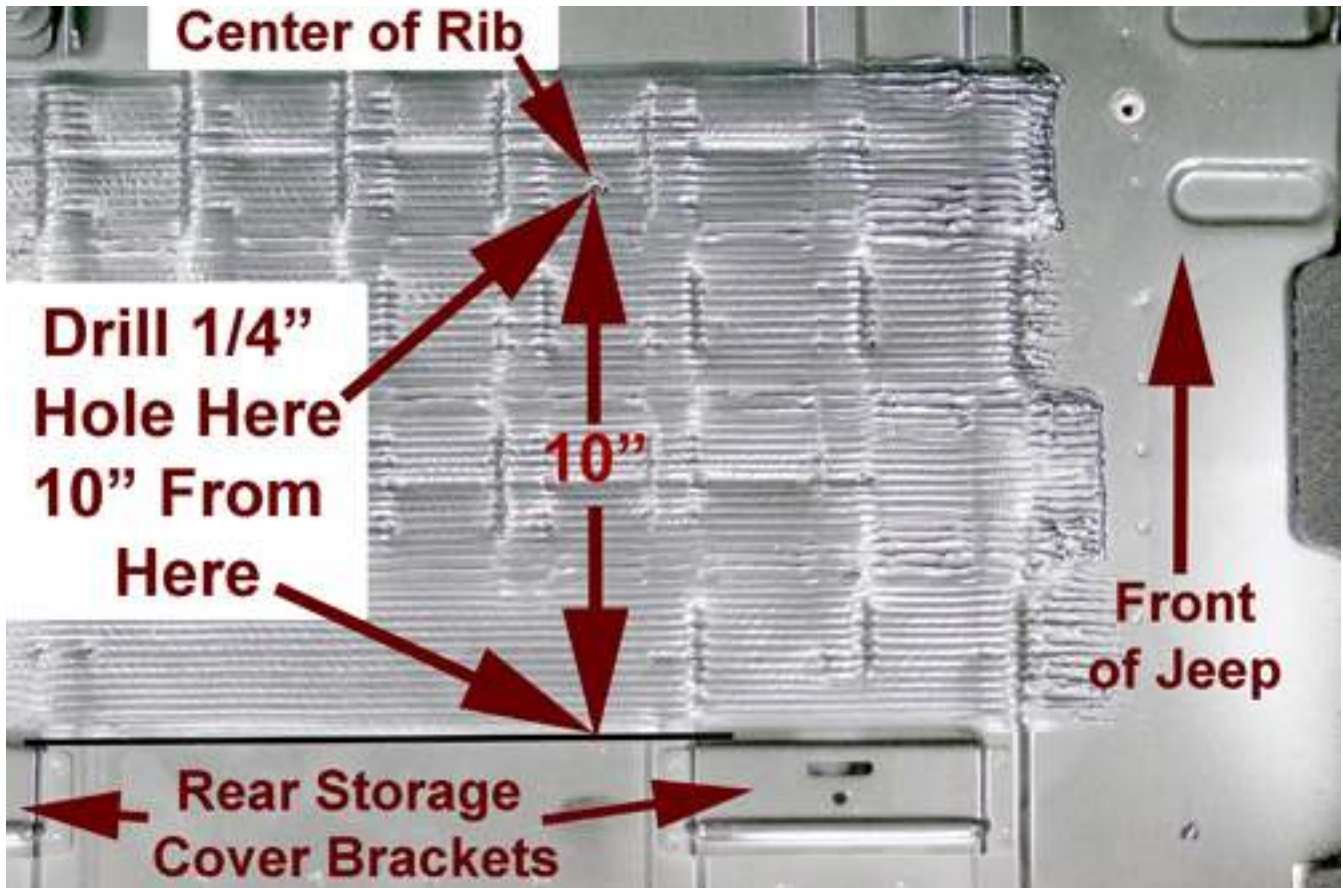
Lift the Metal Tab and remove the Evap Can from the Factory Bracket



In the back of the JK

6. Fold the carpet, from front to back, over the storage tub cover.

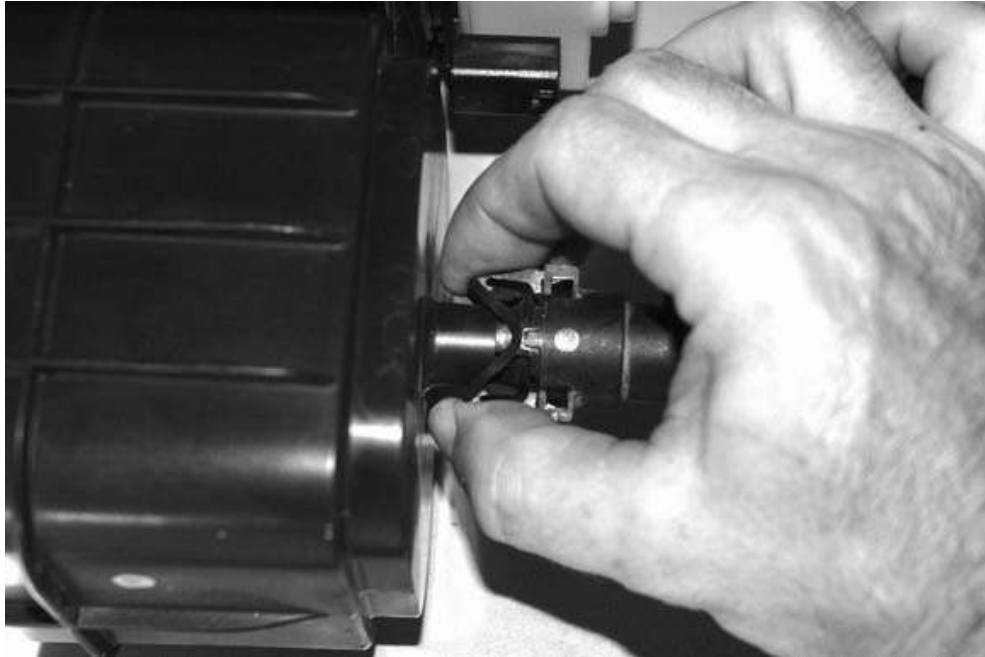
7. Drill One $\frac{1}{4}$ " hole indicated in the following picture.



8. Rust Preventative Primer or Paint

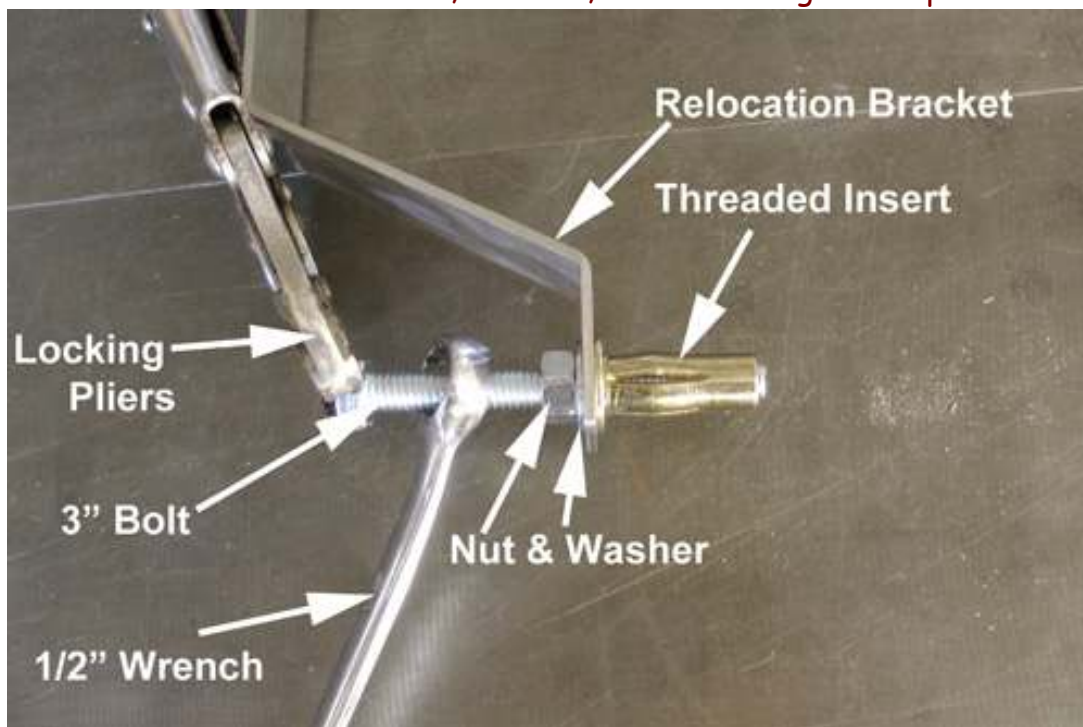
Touch up the previously drilled hole.

9. Squeeze sides of Hose Connector, and pull to remove hose from EC as shown in picture below. Carefully cut and discard hose from Hose Connector.



10. 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:



Under the JK

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



12. Bracket/Threaded Insert Assembly

- 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.

13. 5/16" X 1" Stainless Hex Head Machine Screw

- Loosely install the Evap Can Bracket in Place and Rotate out of the way.

14. Locking Pliers, 1/4" Hex Machine Screw and Fender Washer

- From inside the Jeep place the Machine Screw and Washer. Hold in place with Locking Pliers (a helping hand may be required).

15. $\frac{1}{4}$ " Nut and 10mm wrench

- Place the Evap Can in the Final Install Location, then rotate the Bracket into place. The bracket should lay between the Ribs on the Evap Can, as shown in the following picture. Install the $\frac{1}{4}$ " Nut.



16. Tighten the 5/16" Machine Screw, on the other side of the bracket.

17. Dykes

- Cut and discard the two Factory Zip Ties that hold the Sensor Wire Bundle to the Frame Cross Member. Re-route the Sensor Connector and Wires, over the Cross Member and re-attach the connector to the White Sensor.

18. Hose and 90 Degree Elbow

- Install the hoses as indicated by the following picture.

19. Zip Tie

- Tightly Zip Tie the Hose to the Black Connector, that is attached to the Black Nipple on the Evap Can

20. Zip Ties

- Zip Tie the Wire Bundle and Hose as indicated in the following picture.



The installation procedure is now complete.

Gas Cap Error Codes: Best guess is that about 1% of the time, a Gas Cap error code gets kicked off after this installation. The Gas Cap code is most always caused by improper seating of the O-Ring, between the Sensor and the Evap Canister. If an error code shows up, double check the O-Ring. Make sure that all mating parts are clean and carefully repeat the install procedure for the Sensor. A small amount of silicone grease or other seal lubricant may help also.

Dominion offers a steering stabilizer relocation kit also. Visit www.DominionOffRoad.com.

Thanks,

Brett
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