

POISON SPYDER

C U S T O M S

JK EVAP SKID INSTALL INSTRUCTIONS



'12+ INSTALL KIT



JK EVAP SKID



'07-'11 INSTALL KIT

Thank you for purchasing a Poison Spyder JK Evap Skid. The Skid will protect your Jeep's vulnerable evaporative canister from damage on the trail. Note that the installation procedure, brackets and hardware are different for '07-'11 and '12+ JK's (hardware and instructions for both are included). Installation is fairly simple with the right tools and good mechanical abilities. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Please read through these entire instructions before proceeding with installation.

PARTS LIST

Please check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping.

- (1) JK Evap Skid

'12+ INSTALL KIT:

- (1) 12+ Front Hold-Down Bracket
- (1) 5/16 X 3/8 Nylon Spacer
- (1) 5/16-18 X 1 SS Flat Head Cap Screw
- (1) 5/16-18 Nylon Insert Lock Nut
- (1) 5/16 Flat Washer

'07-'11 INSTALL KIT:

- (1) 07-11 Front Hold-Down Bracket
- (2) 07-11 Rear Hold-Down Strap
- (1) 3/8-16 X 1-1/2 Gr.8 Hex Head Cap Screw
- (1) 3/8-16 Nylon Insert Lock Nut
- (2) 3/8 Flat Washer

TOOLS NEEDED

- Small flat screwdriver or pick (07-11)
- 9/16" end wrenches (2) (07-11)
- Needle-nosed pliers (12+)
- 3/16" Hex key or driver bit (12+)
- 1/2" end wrench (12+)
- 13mm (12+) & 16mm end wrenches
- 13mm (12+) & 16mm sockets & ratchet

NOTE: Parts and procedures are provided for installing the JK Evap Skid in either '07-'11 or '12+ model year Jeep JK's. Use the parts and tools from the lists above, and the procedure below, that correspond to your specific year model.

'07-'11 INSTALLATION PROCEDURE

1. **Park vehicle on a level** surface, place the transmission in gear or park, and set the emergency brake. Wear safety glasses from this point on.
2. **Use a small flat screwdriver** or pick to disengage and unplug the two line lines at the back of the canister. Each of these connections has a wire spring/bail that can be pried up to release it from its socket. Work the vapor line loose from its fitting. It is just a slip-fit but can be on there pretty tight.

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FIGURE 1

3. Use a 16mm end wrench to unbolt the OE canister mount from the underside of the Jeep. There are two bolts at the front of the canister mount, and one at the rear. Keep these bolts handy as they will be re-used to install the Skid.



FIGURE 2

4. With the canister/mount assembly removed from the vehicle, observe the top surface of the mount bracket that was against the underside of the Jeep. Note that there are three slide-tabs holding the canister to the mount bracket. Only one of these slide-tabs is located on the driver's side of the mount bracket, and located directly rearward from it is a metal tab that is pushed inward to lock the canister into place. Slide a small flat screwdriver between the canister and the mount, from the side, to bend the tab flat or outward. With the tab bent out of the way, slide the canister forward to release it from the mount bracket.



FIGURE 3

5. Place the 07-11 Front Hold-Down Bracket inside the front edge of the Evap Skid as shown in the photo, holding it in place with the two bolt holes in the bracket aligned with the holes in the skid. Place the evap canister into the skid and push it forward against the Front Hold-Down Bracket.



FIGURE 4

6. Insert the hooked ends of the 07-11 Rear Hold-Down Straps into the slots in the side of the Evap Skid as shown.



FIGURE 5

7. With both 07-11 Rear Hold-Down Straps in place, insert the supplied 3/8-16 X 1-1/2 Gr8 Hex Head Cap Screw through the two holes in the adjacent 90° flanges of the two straps.

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Install the 3/18-16 Nylon Insert Lock Nut on to the bolt and tighten with a pair of 9/16" end wrenches. **DO NOT OVER TIGHTEN.** The straps are not designed to completely touch, so do not try to tighten them until they do. Only tighten the bolt/nut enough to securely hold the evap canister in place. *Over tightening may risk cracking the plastic case of the canister.*

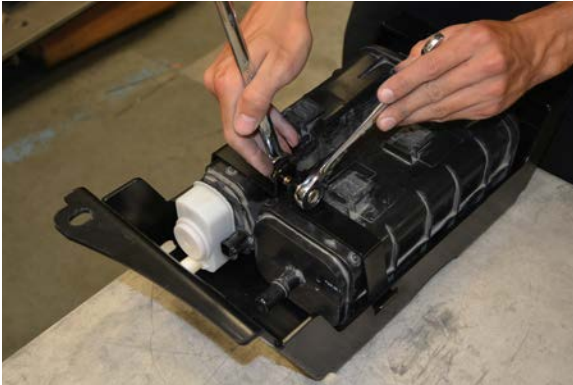


FIGURE 6

8. **Install the Evap Skid back** into the same location the evap canister was removed from. Re-use the OE bolts to secure the Evap Skid (two at the front, one at the back). Note that the two bolts at the front will pass through the Front Hold Down Bracket, then through the top flange of the Evap Skid, then into the threaded holes in the Jeep's body.



FIGURE 7

9. **Tighten the three OE evap canister bolts** with an 18mm wrench.



FIGURE 8

10. **Reconnect the hoses/lines** that were disconnected at the beginning of these procedures.



FIGURE 9

Congratulations, you have completed the installation of your Poison Spyder JK Evap Skid!

'12+ INSTALLATION PROCEDURE

1. **Park vehicle on a level** surface, place the transmission in gear or park, and set the emergency brake. Wear safety glasses from this point on.



FIGURE 10

2. **Remove the lines from the back** of the evap canister. The upper-right one may be tricky.

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We have found that using needle-nose pliers to carefully loosen the retaining clip works well. The other lines may be removed by simply pulling them by hand.



FIGURE 11

IMPORTANT: It has been reported that the small plastic retaining clip that keeps the vapor line attached to the canister on 2012+ JK's can easily break when removing. Because of this, use extra care when removing these lines, or better yet try to remove the sheetmetal guard and install the Poison Spyder Evap Skid without disconnecting these lines. If you do break that clip, there is a suitable replacement available at auto parts stores. Dorman P/N 800-015 Ford Retaining Clip Assortment includes a 3/8" clip that is reported to work (Thanks to "Cactus Red" on JKOwners.com for this tip!). Alternatively a small zip-tie may work.

3. Use an 18mm wrench or socket to remove the three bolts that hold the OE evap skid plate to the underside of the Jeep. There are two bolts at the front, one at the back.



FIGURE 12

4. Remove the evap canister and skid from the Jeep together and place the assembly on a work bench.



FIGURE 13

5. Use a 13mm socket and ratchet, and 13mm end wrench to remove the rear retaining bolt, as shown, and remove the evap canister from the OE bracket.



FIGURE 14

6. Place the 12+ Front Hold-Down Bracket over the two round protrusions at the front-top edge of the evap canister, as shown.



FIGURE 15

7. While holding the 12+ Front Hold-Down Bracket in place against the front-top edge of the evap canister, place the evap canister into the skid and push it forward until the two bolt holes in the Hold-Down Bracket align with the holes in the Evap Skid, as shown.

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FIGURE 16

- 8. Slide the Evap Skid/canister assembly** to the edge of the table to access the countersunk hole at the bottom of the skid, without turning it on its side and disturbing the location of the canister within the skid. Slide the 5/16 X 3/8 Nylon Spacer into place between the bottom of the Evap Skid and the hold-down tab protruding from the rear of the evap canister.
- 9. Insert the provided 5/15-18 X 1 SS Flat Head Cap Screw** through the countersunk hole in the bottom of the Evap Skid, through the center of the Nylon Spacer, and through the hole in the hold-down tab that is part of the plastic evap canister. Put a 5/16 Flat Washer and 5/16-18 Nylon Insert Lock Nut over the protruding end of the flat head cap screw, and finger-tighten.
- 10. Once the flat head cap screw and nut are finger-tight,** the Evap Skid and canister assembly may be tilted on its side to more easily reach both sides. Tighten the nut with a 1/2" end wrench while holding the flat head cap screw with a 3/16" hex key.



FIGURE 17

- 11. Install the Evap Skid with evap canister** into the location on the Jeep where the

evap canister was removed from its factory location.



FIGURE 18

- 12. Re-use the three OE evap skid mounting bolts,** and use the 18mm end wrench to tighten them (two at the front, one at the back). Note that the two bolts at the front will pass through the Front Hold Down Bracket, then through the top flange of the Evap Skid, then into the threaded holes in the Jeep's body.



FIGURE 19

- 13. Reconnect all lines to the back of the evap canister,** by reversing the process used during their removal.



FIGURE 20

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FIGURE 21



FIGURE 22

Congratulations, you have completed the installation of your Poison Spyder JK Evap Skid!

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WARRANTY

Poison Spyder Customs™ warranties all of the products we sell and distribute for one (1) year from the date of sale. These products will be free from defects in material and workmanship under normal installation, and use. Due to the intended use the powder coat finish is warranted for ninety (90) days. The finish warranty will not cover a product if it has been damaged in any way. Warranty is limited to repair or replacement. Poison Spyder Customs™ does not offer any type of labor or shipping allowance and all warranty claims are subject to inspection by Poison Spyder Customs™.

At the discretion of Poison Spyder Customs™, the products in question can be repaired or replaced when found defective. Prior to any replacement or repair, written authorization must be obtained from Poison Spyder Customs™. Failure to contact us prior to having warranty work preformed will immediately void all applicable warranties; and it is then the sole responsibility of the customer to remit any payment incurred.

The warranty expressed above is the sole warranty of Poison Spyder Customs™, and any other expressed or implied warranties are hereby specifically excluded and disclaimed.

HOLD HARMLESS AGREEMENT

- 1. In purchasing a Poison Spyder Customs Product™** I release, waive, discharge and covenant not to sue Poison Spyder Customs officers, servants, agents, or employees (hereinafter referred to as Releasees) from any and all liability, claims, demands, actions and causes of action whatsoever arising out of or related to any loss, damage, or injury, including death, that may be sustained by me (or anyone else), any property belonging to me (or anyone else), whether caused by the negligence of the releasees or otherwise, while working on, using or any activity related to this product.
- 2. I am fully aware** of risks and hazards connected with the use of a this product and I elect to voluntarily engage in such use of this product knowing that the use may be hazardous to me and my property. I voluntarily assume full responsibility for any risks of loss, property damage or personal

injury, including death, that may be sustained by me (or anyone else), or any loss or damage to property owned by me (or anyone else), as a result of using this product, whether caused by the negligence of releasees or otherwise.

- 3. I further agree to** indemnify and hold harmless the releasees from any loss, liability, damage or costs, including court cost and attorney fees, that they may incur due to my use of a this product, whether caused by negligence of releasees or otherwise.
- 4. It is my express** intent that this Release and Hold Harmless Agreement shall bind the members of my family and spouse, if I am alive, and my heirs assigns and personal representative, if I am deceased, and shall be deemed as a release, waiver, discharge, and covenant not to sue the above named releasees. I further agree that this Waiver of Liability and Hold Harmless Agreement shall be construed in accordance with the laws of the State of California.

By accepting this product, I acknowledge and represent that I have read the above Waiver and Liability and Hold Harmless Agreement, understand it and accept it voluntarily as my own free act and deed; no oral presentations, statements, or inducements, apart from the foregoing written agreement, have been made; I am at least eighteen (18) years of age and fully competent; and I execute this Release for full, adequate and complete consideration fully intending to be bound by same.

If you do not agree with the preceding Hold Harmless Agreement, you may return the product and receive a full refund. Please, contact a Poison Spyder Customs™ sales representative and they will issue a call tag for the product in question. Once the product has been received by Poison Spyder Customs™ a full refund will be issued.

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