



## **FS Performance Engineering**

Kia Forte (2014-2018) Hatchback Rear Spoiler Extension Installation Instructions

*Professional installation recommended. RIVNUT INSTALLATION TOOLS ARE UNCOMMON.*

### **Tools Needed:**

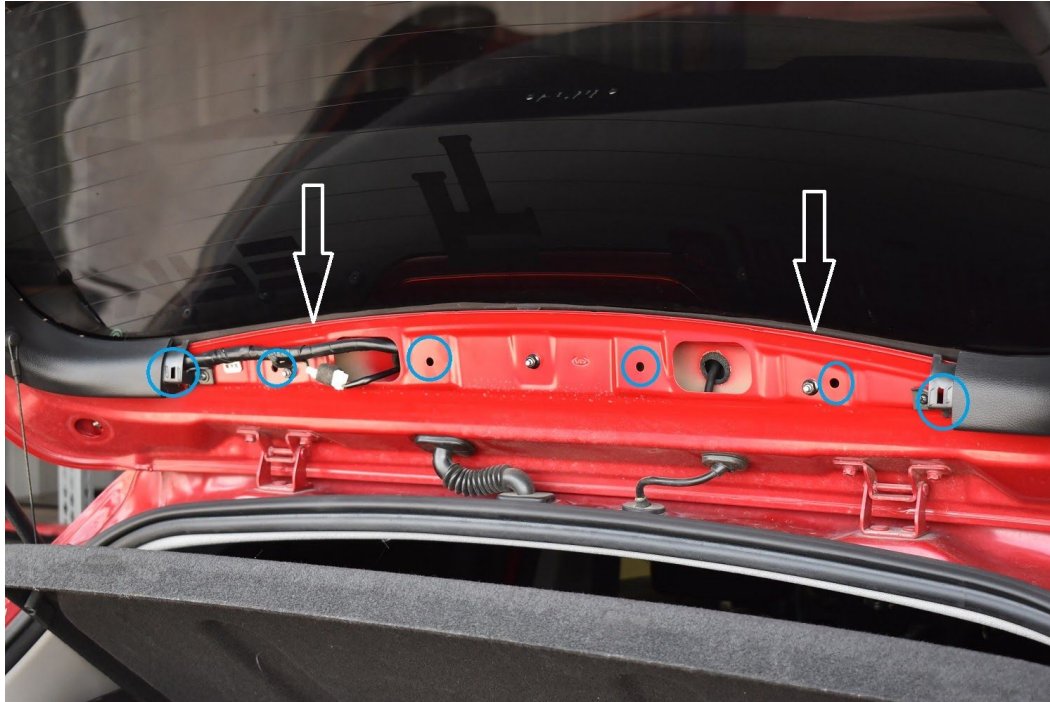
- Drill
- Ratchet wrench + 10mm socket
- Fishing line / strong string
- Gloves
- Adhesive remover
- Isopropyl alcohol
- Small drill bit (~1/8")
- 25/64" drill bit OR 3/8" drill bit... it should work just fine :)
- Rivnut installation tool w/ M6 mandrel (we got our tool from Hanson Rivet online)
- 4mm or 5/32" hex head allen wrench
- Small flat head screwdriver (possibly)
- Painter's tape
- Flexible measuring tape

### **Included in Kit:**

- (1) Spoiler Extension w/ pre-applied double sided tape
- (9) M6-1.0 Rivnuts ----> One is extra just in case
- (8) M6-1.0 x 20mm countersunk stainless steel bolts
- (8) M6 Countersunk washers
- (2) Small short (~2") strips of 3M double sided tape

**Steps:**

1.) Open the rear hatch and remove the single piece of black trim to expose the bolts that hold the spoiler extension on. There are 2 tabs on each side (outer circled) and 4 clips (circled). Start on one side and pull directly toward the back of the car to pop the clips out. Then move to the other side. The arrows indicate where we put our fingers to pull.



2.) Remove the black round plugs found at the left and right sides of the trunk to expose the nuts found underneath. Right side shown.





- 3.) Use a 10mm wrench / ratchet wrench to remove the 3 nuts found under the trim, and the 2 nuts under the round plugs from the previous steps.
- 4.) Then, unplug the 3rd brake light plug (left of center) and detach the rear windshield washer hose (right of center).
- 5.) The OEM spoiler is now only held on by double sided tape at the left and right sides. Close the trunk. Put on your gloves and grab your fishing line. Wrap the fishing line around each hand and insert it into the gap between the OEM spoiler and trunk. Move the fishing line left and right to cut through the tape being careful not to rub on the paint.  
Here is the location of the tape - picture shows where we later reapply provided tape.



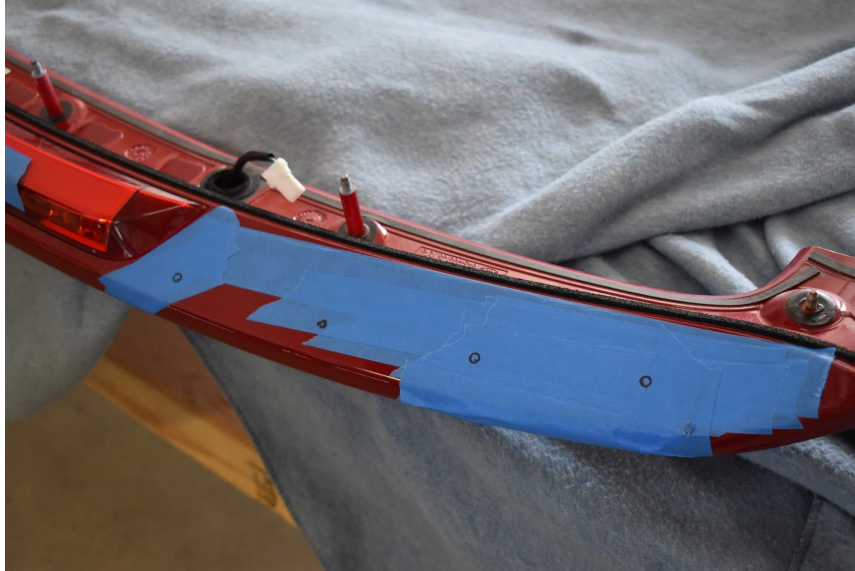
- 6.) After the tape has been cut through, with help from a friend pull up to remove the OEM spoiler.

7.) Once the OEM spoiler has been removed you can now mark the holes for the rivnuts on the OEM spoiler. Lay painter's tape onto the underside of the OEM spoiler, a little bit on the 3rd brake light and some on the center of the spoiler extension. Use measuring tape to find the center on both the brake light and spoiler extension.

Get the spoiler extension centered onto the OEM spoiler, and make sure the fins do not touch the OEM spoiler, then mark the holes. Don't install your extension upside down. Use your measuring tape to double check the spoiler holes are located in the same spots on each side of the OEM spoiler. Get a friend to help!

Here are some of our pics:



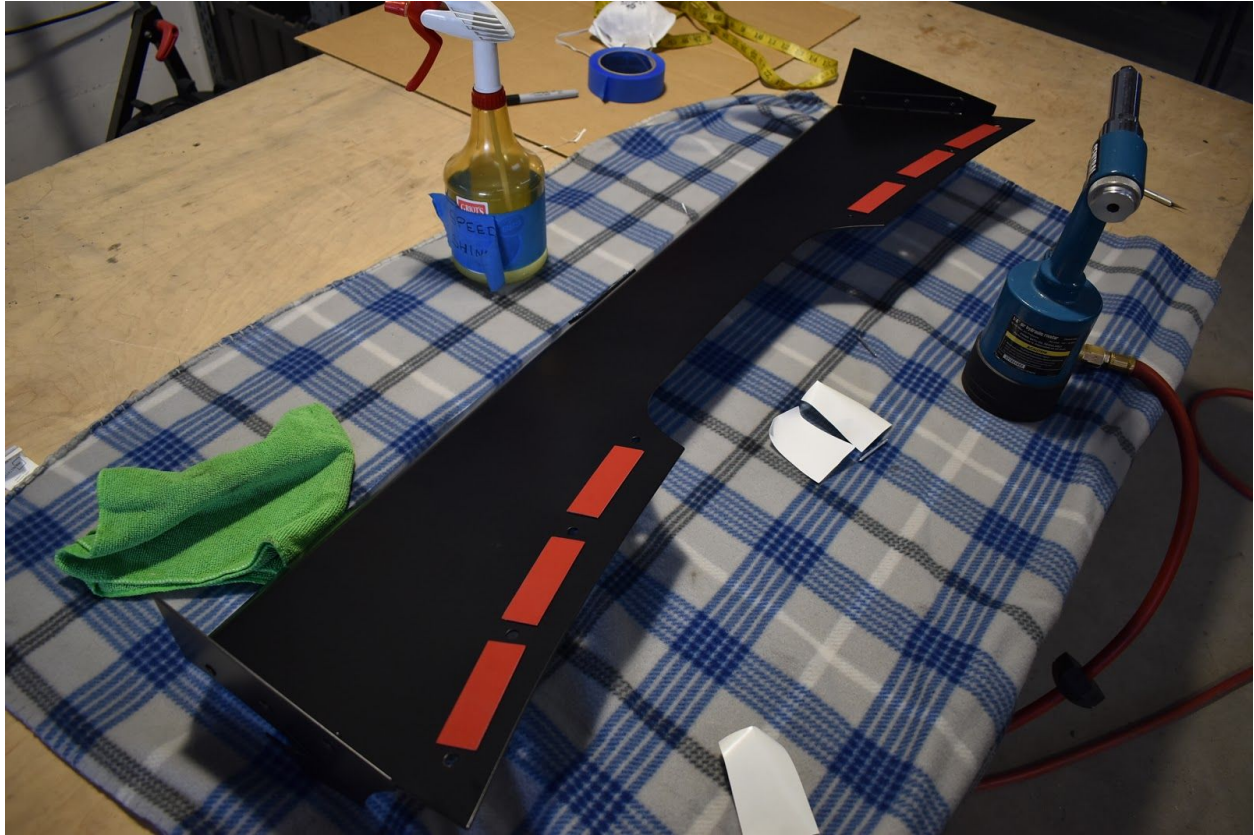


8.) Drill out the holes. First use a  $\frac{1}{8}$ " drill bit to make a tiny hole directly in the center of each hole. Then use your  $\frac{25}{64}$ " or  $\frac{3}{8}$ " drill bit to open up the holes. Remove the tape and install your rivnuts. Rivnuts expand on the inside as you tighten against them. With our tool from hanson rivet a team of two is required. One person to hold the tool/mandrel, and another to turn the end with a wrench. Tighten the rivnuts enough so they will not come back out, but not so much that you crack the plastic. We recommend a professional do this or that you learn how to use a rivnut tool using online sources. RIVNUTS INSTALLED:

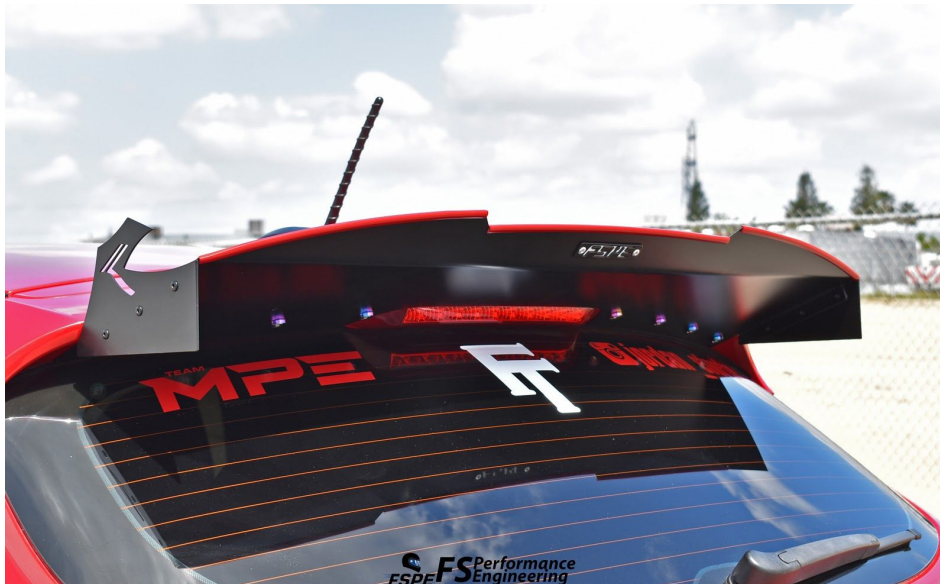




9.) With help from a friend install your spoiler extension onto the OEM spoiler. Remove the backing on the tape first (red in picture). Clean the contact areas on the OEM spoiler where the tape will meet with isopropyl alcohol. Use your M6 countersunk bolts/washers to install. Tighten each bolt snug - do not over tighten.



Here's what it looks like when mounted onto the OEM spoiler.





10.) Use adhesive remover to remove the OEM tape on the car. Feel free to use a flat head screwdriver to help remove it. Replace it with the tape strips we have provided.



11.) Peel the red backing off the tape on the car and reinstall the spoiler in the reverse order. Be sure everything is tight.

12.) Enjoy your new FS Performance Engineering aero! Tag us & use #FSPerformanceEngineering in the online world!!



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