



## FS Performance Engineering

### Kia Stinger 2018+ Front Splitter V1 (3-Piece) Installation Instructions

*A lift is HIGHLY recommended for this installation - we feel it is necessary.*

#### **Tools Needed:**

- 10mm wrench
- 10mm socket
- Flat head screwdriver
- Ratchet wrench
- 1/4" drill bit
- Drill
- C clamps w/ soft rags (not necessary, just might be helpful)

#### **Included in Kit:**

- (1) 3-piece splitter
- (2) Flares/winglets
- (1) Removable Under Tray
- (2) Winglets
  
- (41) 1/4" ID, 1" OD fender washers
- (4) 1/4" ID small washers
- (7) 1/4" small lock washers
- (24) M6-1.0 x 20mm bolts
- (2) M6-1.0 x 40mm bolts
- (19) M6-1.0 nyloc nuts
- (2) 20mm nylon spacers

#### FOR WINGLETS:

- (4) M6-1.0 x 16mm countersunk bolts
- (4) Black anodized M6 washers
- (4) 1/4" Small washers
- (4) M6-1.0 nyloc nuts

**Steps:**

- 1.) Raise the car using a lift - we do not recommend trying this on the ground.
- 2.) Remove the undertrays. Our car didn't have any, so we can't really tell you what needs to be removed. However, on other Kia's that we have worked on there were a series of push-clips around the outside edge of the bumper. There were also bolts that ran in to the radiator support. Remove the trays necessary to achieve this:



Here is a sample push-clip:





2.5.) **ADDED STEP:** If you have splitter rods... you will need to locate your mounting spot to the car first. If you are mounting to the bumper you will need to install the rods onto the bumper first before installing the splitter. This is because once the splitter installed, you no longer can reach inside the bumper to install the rods. Use the rod installation instructions to help with proper installation.

3.) The splitter mounts to the OEM spots that were exposed when the clips were removed. There are common spots between the pieces that hold the splitter together - you will see this when they're stacked on top of one another. Start by *loosely* installing the outer splitter pieces as shown (in 4 locations on each side). Use M6-1.0 x 20mm bolts, 1" washers on top and bottom, and M6 lock nuts on top.



4.) After loosely installing the left and right sides, *loosely* install the center splitter into the two OEM spots at the front of the bumper. Use the same bolt/nut/washer combination from the previous step. Getting your hands in there is NOT easy - hence the lift recommendation. Reach in from the back. (1ST PIC)

Then mate the center splitter to the outer pieces at the rear into the built in rivnuts (this is temporary) - use M6-1.0 x 20mm bolts. (2ND & 3RD PIC)



2ND PIC:



3RD PIC:



5.) Make sure the splitter is “squared up.” This means the rear edges of the splitter are lined up with the front edges of the fender. With your 1/4” bit, drill through the holes in the splitter into the bumper. There will be seven holes... two of which pass through both the center and outer splitters.

NOTE: You want to make sure the center splitter and outer splitters are overlapping directly on top of one another. If you want to assure this is happening before you drill, feel free to use C-clamps to hold them together (with rags so you don't scratch anything) - we didn't do this, it's just to help. OR, you can pass bolts through the common holes to assure they're squared up.



6.) After drilling the holes, blow out the residue. Then install M6-1.0 x 20mm bolts w/ 1" fender washers into those holes. ON THE TOP: two of the holes (CIRCLED) will require ¼" small washers - the remaining will use 1" washers w/ nyloc nuts. Make sure all of the bolts shown in the picture are present, and securely tighten all of them. The bolts are around the perimeter and are attached to the fender liner.



7.) Next, you will be using the following items to fill the two holes shown into the radiator supports. Securely tighten.

- M6-1.0 x 40mm bolts point upward
- 1" fender washers on bottom
- 20mm nylon spacers in between the splitter and radiator supports
- and ¼" small washers + M6 nyloc nuts on top





8.) Once those bolts are secure, you can now install your removable under tray. It secures to the 5 rivnuts in the splitter, and the two OEM holes in the car. This is very straight forward. Use M6-1.0 x 20mm bolts with lock washers and 1" fender washers under the heads. Securely tighten.



9.) Assure everything is securely tightened. Then install your winglets using the countersunk bolts/washers/nuts. The folded portion sits underneath the splitter.

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



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