



FS Performance Engineering
Kia Forte (K3) Gen 3 Installation Instructions

Tools Needed:

- Friend/helper & marker
- Ratchet wrench
- 8mm socket
- 10mm socket + long extension
- 5/32" Allen head wrench
- 7/16" Open end wrench
- 10mm Open end wrench
- Flat head screwdriver
- Drill
- ¼" Drill bit and 5/16" drill bit if you have rods
- Oil (if you have fins), Isopropyl Alcohol (if you have edge trim) + cloth
- Strong scissors / diagonal cutters (if you have edge trim)

Included in Kit:

Aero:

- (1) Street Splitter OR...
- (1) Track/Sport Splitter Top Layer
- (2) Track/Sport Splitter Bottom Layers (left and right, symmetrical)
- (2) Track/Sport Splitter Fins (left and right)

If you ordered Chassis Rod Bracket:

- (1) Chassis Rod Bracket
- (2) ¼" ID Small Washers
- (2) M6-1.0 Nyloc Nuts
- (2) M6-1.0 x 30mm bolts

If you ordered Splitter Rods (additional instructions included, more tools necessary):

- (1) Pair of 8.5-10.25" Rods Color of Choice
- (1) Blue Loctite
- (2) 5/16-18 x 0.75" SS Hex Bolts
- (2) 5/16-18 x 0.75" SS Button Head Bolts

Hardware for Splitter Installation:

- (4) M6-1.0 x 20mm Bolts
- (24) M6-1.0 x 30mm Bolts
- (2) ¼" ID, 2" OD Large Washers
- (8) ¼" ID Small Washers
- (46) ¼" ID, 1" OD Washers
- (28) M6-1.0 Nyloc Nuts

If you have Fins for Track/Sport Splitter:

- (4) ¼-20 x 0.75" SS Countersunk Bolts
- (4) ¼-20 SS Nyloc Nuts
- (4) ¼" Countersunk Washers

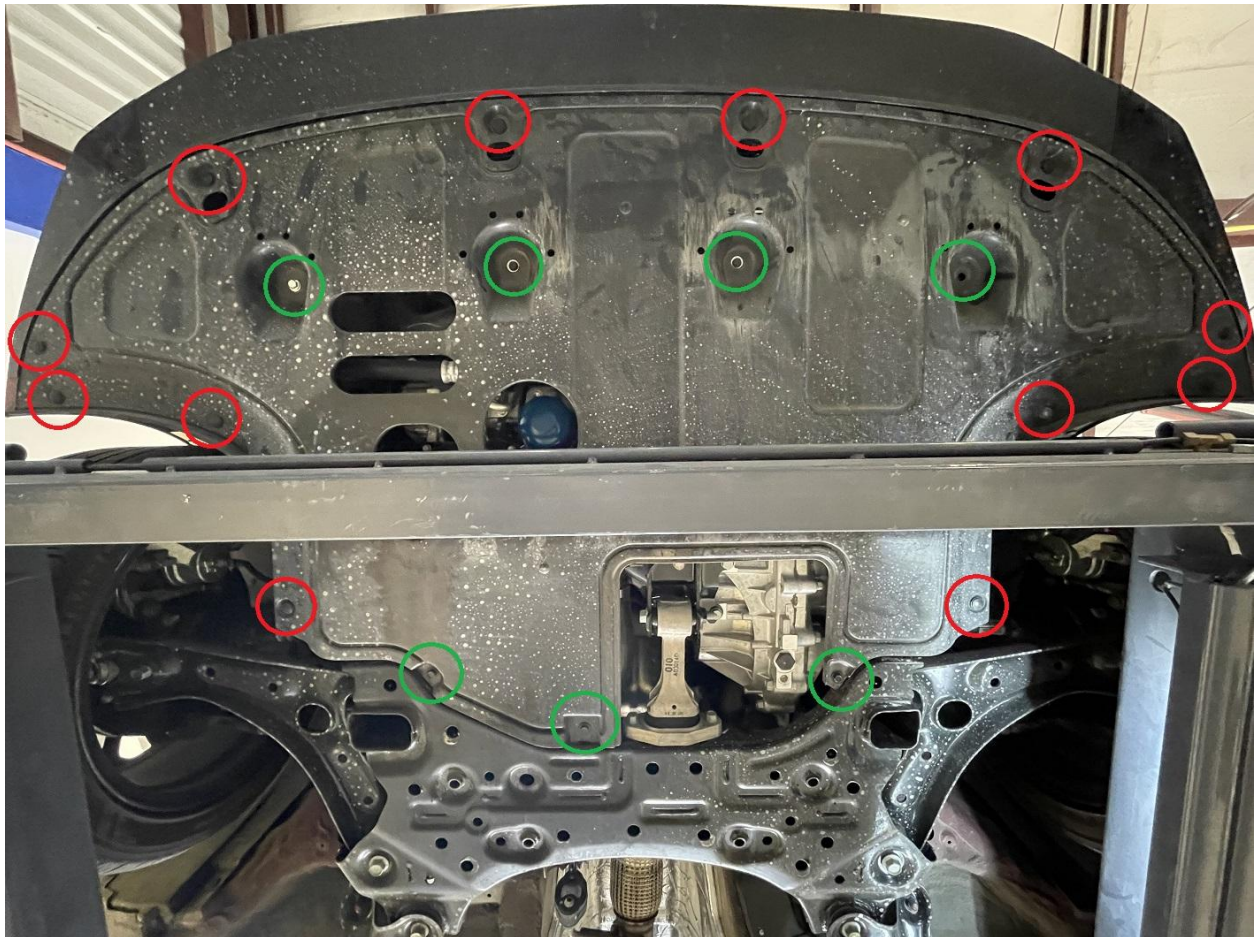
Steps:

1.) Begin by raising the front of your car and securing it on jackstands. Assure it is high enough to lay under the car. Or, use a car lift.

2.) Remove the Kia's skid plate. The skid plate is attached with TWELVE (12) pop clips (red circles) around the perimeter, and SEVEN (7) bolts (green circles).

Tools Needed:

- Flat head screwdriver
- 10mm socket + ratchet wrench (we used a drill attachment)





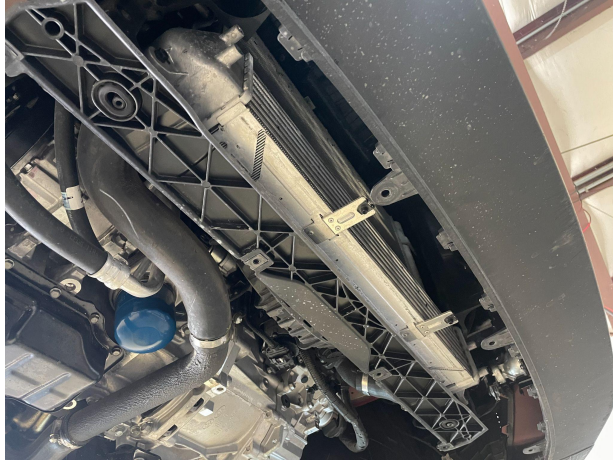
3.) This step is only necessary for those with a chassis rod mounting bracket. If you don't have a chassis rod mounting bracket move to the next step.

Remove the radiator duct. It is held with SIX (6) bolts. TWO (2) on each side, and TWO (2) on the interior of the ducting. It will be hard to reach the interior bolts so long arms are a plus; you must reach in from the front of the ducting just above the bumper.

Tools Needed:

- 10mm socket + ratchet wrench





4.) Splitter installation can now be implemented. The inside line of your splitter tightly contours the lip that protrudes downward on the underside of your bumper. With help from a friend, or help with a lift/table, push the splitter (larger splitter top layer if track/sport splitter) against the lip. Align the left and right edges with the back edge of the bumper/front edge of the fenders. Use a marker to mark the most outer holes in the splitter onto the bumper.



5.) Set the splitter aside. Drill out the holes just marked on the bumper.

Tools Needed:

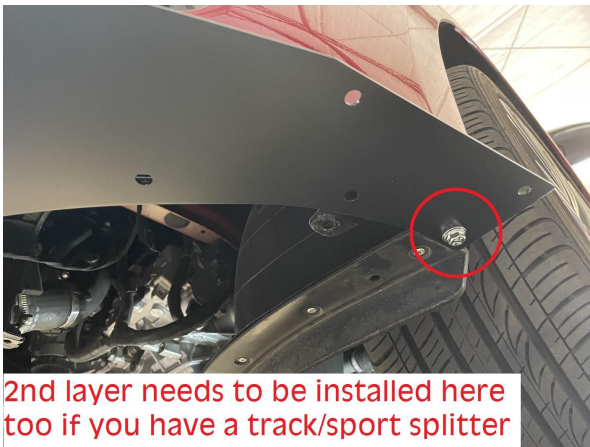
- Drill
- ¼" Drill Bit



6.) Install the splitter securely into those two holes drilled. If you have a track/sport splitter also install the 2nd layers into those holes. The 2nd layers mount underneath the large top layer.

Tools & Hardware Needed:

- (2) M6-1.0 x 20mm bolts (10mm socket/ratchet wrench)
- (4) ¼" Small washers (under splitter, inside bumper)
- (2) M6-1.0 Nyloc nuts (inside of bumper, 10mm wrench)



7.) Hold the splitter against the bumper. Drill through the hole indicated through the bumper with your 1/4" drill bit on both sides of the car. If you have a second layer move it out of the way.



8.) Install a M6-1.0 x 30mm bolt into that hole. If you have a 2nd layer the bolt passes through both layers. Use the very large washers on the bottom. Ignore the size of the washer in our pictures, we ended up increasing the size.

Tools & Hardware Needed:

- (2) M6-1.0 x 30mm bolts (10mm socket/ratchet wrench)
- (2) 1/4" ID, 2" OD large washers (under splitter)
- (2) 1/4" ID, 1" OD washers (inside splitter)
- (2) M6-1.0 Nyloc nuts (inside of bumper, 10mm wrench)



9.) Drill out all remaining holes through the bumper with your ¼” drill bit. Have a friend push the splitter against the bumper while doing so.



10.) Install M6-1.0 x 20mm bolts into the holes just in the front of the most rearward holes. Tighten securely.

Tools & Hardware Needed:

- (2) M6-1.0 x 20mm bolts (10mm socket/ratchet wrench)
- (4) ¼” Small washers (under splitter, inside bumper)
- (2) M6-1.0 Nyloc nuts (inside of bumper, 10mm wrench)



11.) Install M6-1.0 x 30mm bolts into the remaining holes. Tighten securely.

Tools & Hardware Needed:

(24) M6-1.0 x 30mm bolts (10mm socket/ratchet wrench)

(46) ¼" ID, 1" OD washers (under splitter, inside bumper)

(24) M6-1.0 Nyloc nuts (inside of bumper, 10mm wrench)



12.) If you have fins install them with the countersunk hardware. **PUT OIL ON THE THREADS OF THE BOLTS.** They will bind up if you don't do this before tightening.

Tools & Hardware Needed:

(4) ¼-20 x 0.75" SS Countersunk Bolts (on top of splitter pointing down, USE OIL)

(4) ¼" Countersunk Washers (under countersunk bolts)

(4) ¼-20 SS Nyloc Nuts (under fins)



13.) If you have edge trim prep the edges of the splitter with isopropyl alcohol. Then apply it along the edge of the splitter. Cut to size.

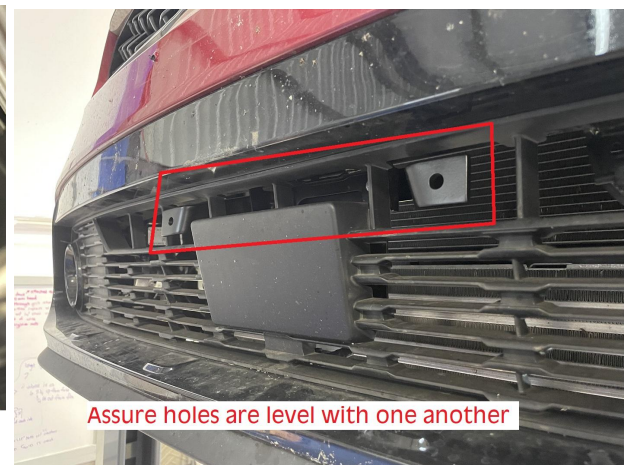
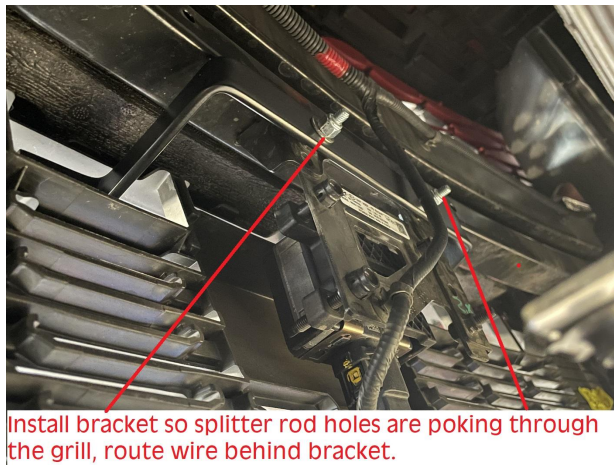
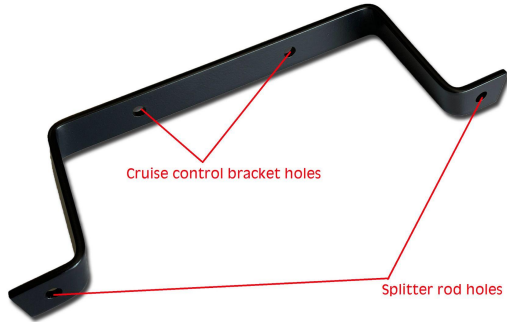


14.) If you DO have chassis brackets, move to step 15 (next step). If you have rods and NO chassis brackets you will have to mount them where you feel appropriate. Use the supplied rod installation tips for installation. Then reinstall the radiator duct (if removed) and skid plate. Then move to the last step. If you have no rods at all move to the last step.

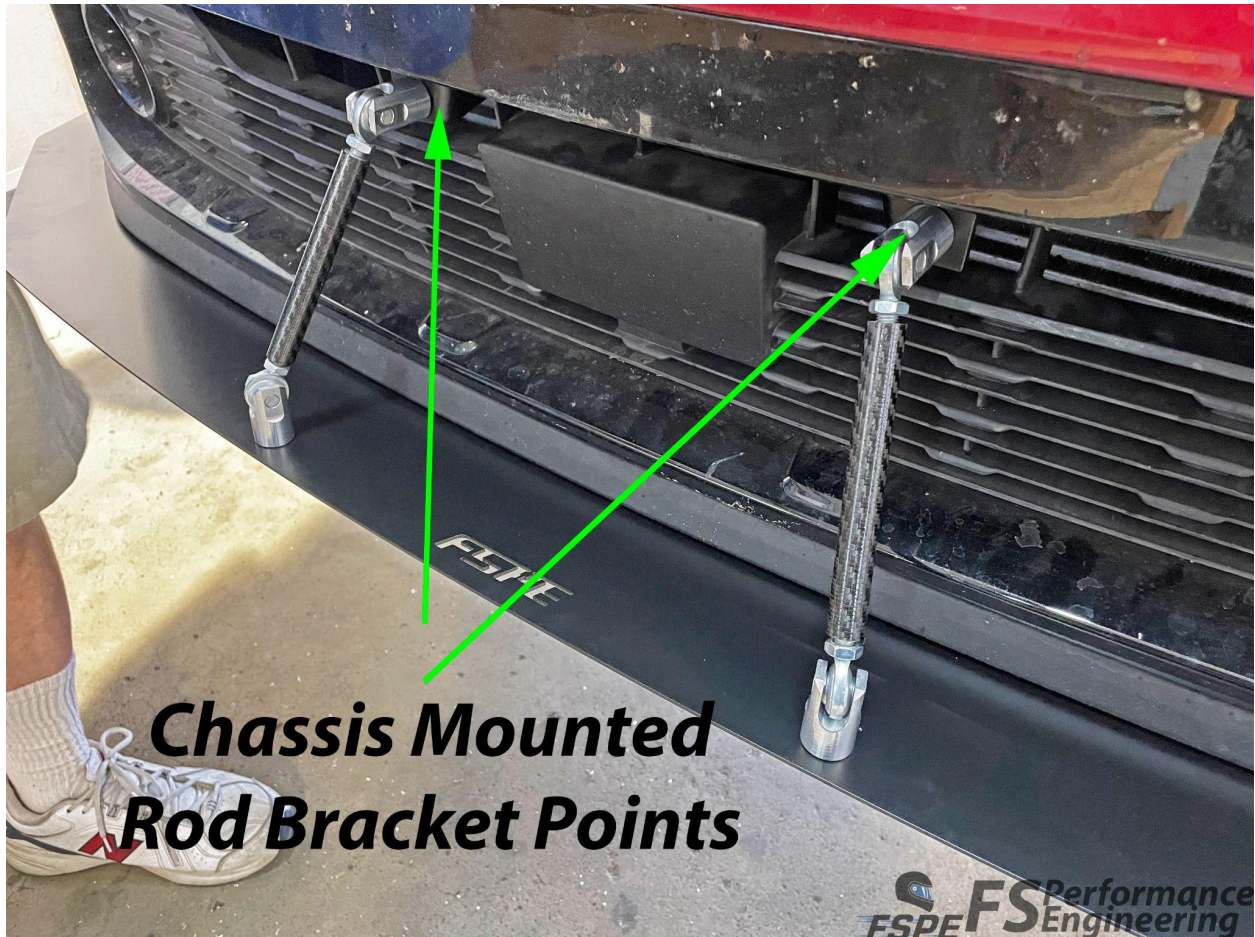
15.) If you DO have our chassis bracket do the following:

- Remove ONE of the upper bolts in the cruise control bracket (10mm socket, extension, ratchet wrench) through the grill.
- Install a M6-1.0 x 30mm bolt into that hole securely (10mm socket, extension, ratchet wrench)
- Remove the other upper bolt and install a M6-1.0 x 30mm bolt into that hole securely (same tool combination)
- Install the bracket over top of the bolt threads on the inside of the bumper. Route it under the wire. **Hold the bolt while tightening the M6-1.0 nyloc nuts.** Assure the bracket is secure and even on both sides.

Chassis Bracket for Splitter Rods



16.) Install your splitter rods into the chassis rod brackets using loctite on the bolt threads - use the HEX head bolts here. Then drill 5/16" holes into the splitter to mount the rods. See separate instructions for the tools necessary here for proper installation.



17.) Reinstall your radiator duct and skid plate.





18.) Assure everything is securely tightened. Enjoy your new FS Performance Engineering aero!
Be sure to use #FSPerformanceEngineering in the online world.
For questions email costas@fspeinc.com Or call/text us at 1-661-809-0954.

