



FS Performance Engineering

Hyundai Veloster Gen 2 R-Spec/Turbo Spoiler Extension Installation Instructions

Professional Installation is recommended when installing this spoiler extension.

Tools Needed:

- Friend/helper
- Masking tape
- Marker
- Drill
- Small drill bit (7/64" or 1/8" recommended)
- 1/2" drill bit (A DULL 1/2" BIT WORKS BEST)
- Ruler
- Measuring tape / ruler
- String or fishing line
- Ratchet wrench
- Extension
- 10 mm socket
- 7/32" wrench
- 5/32" allen head wrench
- Phillip's head screwdriver
- Small towel

Included in Kit:

- (1) 3-Piece Spoiler Extension
- (2) White vinyl patches (cut to size)
- (4) 1.25" long Countersunk stainless steel 1/4"-20 bolts
- (4) 5/8" long Countersunk stainless steel 1/4"-20 bolts
- (4) 1/4" stainless steel washers
- (4) 1/4"-20 stainless steel nyloc nuts
- (8) 1/4" Black countersunk washers
- (6) Stainless steel #10 x 3/4" screws
- (6) Stainless steel #10 washers
- (4) 1/2" diameter well nuts

Steps:

1.) This job is a bit daunting. Professional installation is recommended. However, with some confidence in your skills I think you can do it.

→ Begin by lifting your hatch trunk and using your fingers to remove the 2 plugs on each side of the trunk to expose the 10mm nuts underneath. I am pointing to them in the pictures.





2.) With your fingers remove the center panel. Pull toward the back of the car. It will require some good force. “Pop” the whole thing off.



3.) Under the panel three more 10mm nuts will be exposed, as well as the rear nozzle sprayer hose and electrical connection. Go ahead and unplug the electrical connection and the nozzle sprayer hose. CARFEUL, there will be fluid in the nozzle sprayer hose. Use your towel to catch the fluid.







4.) Use your 10mm socket, ratchet wrench, and extension to remove the seven 10mm nuts from the previous steps.



ALL FURTHER STEPS REQUIRE A FRIEND / HELPER:

5.) Your wing is now free of nuts. However, it is further held down with double sided tape. WHICH IS A PAIN. So you need to use either string or fishing line to cut through it using a “sawing” motion between the spoiler and trunk. With help from a friend you need to “fish” the line through the spoiler and use it to cut the tape (you might need gloves). Move from the outside of the spoiler to the inside of the spoiler. You will have to “re-fish” it through the spoiler every time you hit a bolt sticking down from the spoiler.

→ If you need help figuring out what I mean go ahead and find online sources on how to remove a rear spoiler’s tape with fishing line. DON’T PULL TOO HARD ON THE SPOILER YOU DON’T WANT TO BREAK IT.

Pictured: spoiler off. Tyler, veloster owner (left), shop VP (right)

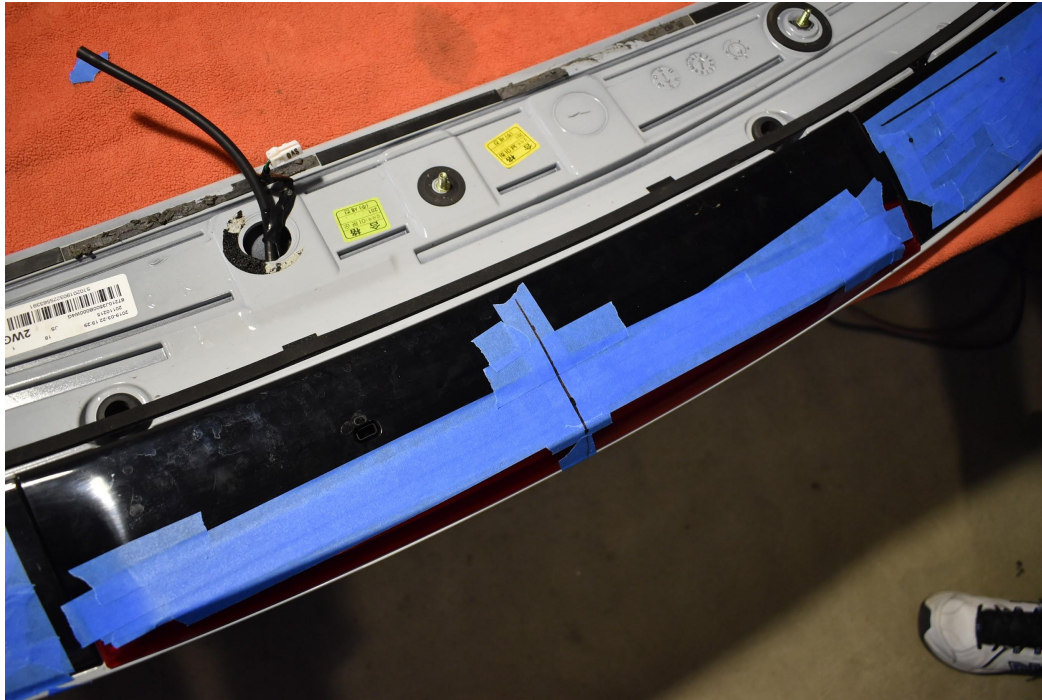


More pics on the next page.





6.) Now that you have the OEM spoiler removed, lay it on a table (preferably with a soft surface) and place masking tape onto nearly the entire underside. Find the center of the OEM spoiler using your measuring tape. Make a mark.

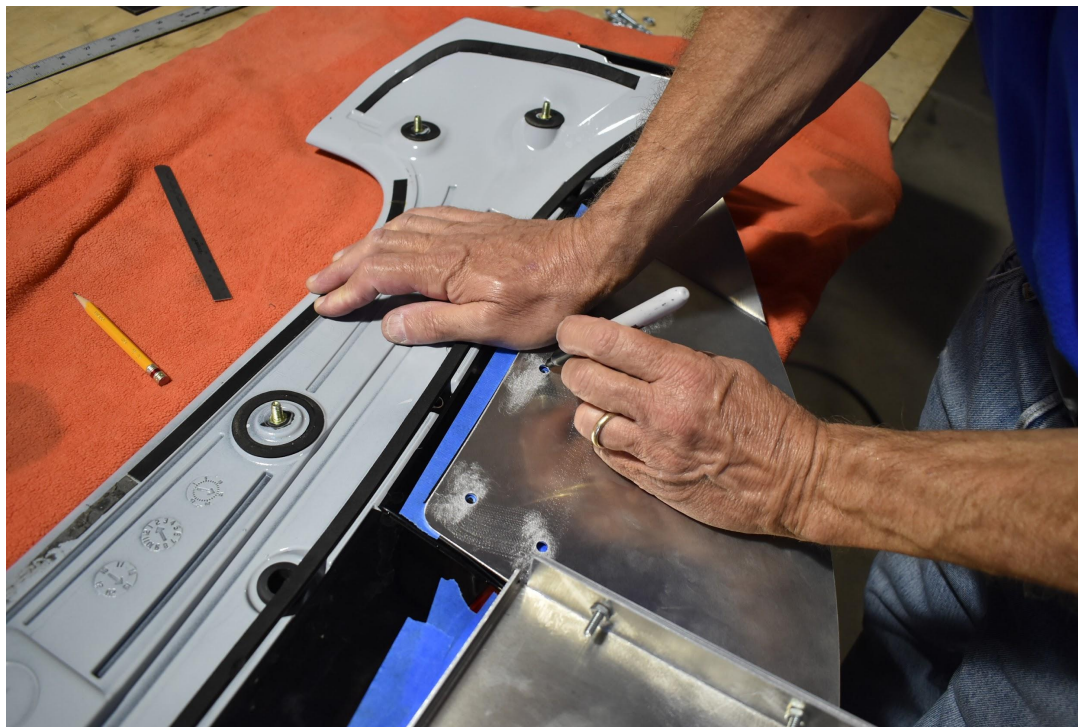


7.) Assemble your 3 piece spoiler extension with the supplied nuts and bolts. Use the shorter countersunk bolts pointing inward, black countersunk washers, and stainless steel washers and bolts. Feel free to apply your vinyl at this point under the “FSPE”. Securely tighten. Then, mark the center of the spoiler.

PICS ON NEXT PAGE



8.) Your next goal is to mark the 4 holes toward the inside of the spoiler onto the masking tape. Align the spoiler extension on the OEM spoiler so it sits evenly on both sides and mark the holes. Make sure you are pushing down on the spoiler extension while doing so.
→ Make sure the 6 holes toward the back of the OEM spoiler look like they are not hanging off the rear end.



9.) Drill out those holes with your small drill bit. Then open them up to ½” holes. THIS IS IMPORTANT: Make sure you do not go through the other side of the spoiler when drilling AND using your drill on slow speed - DULL ½” DRILL BIT helps quite a bit.

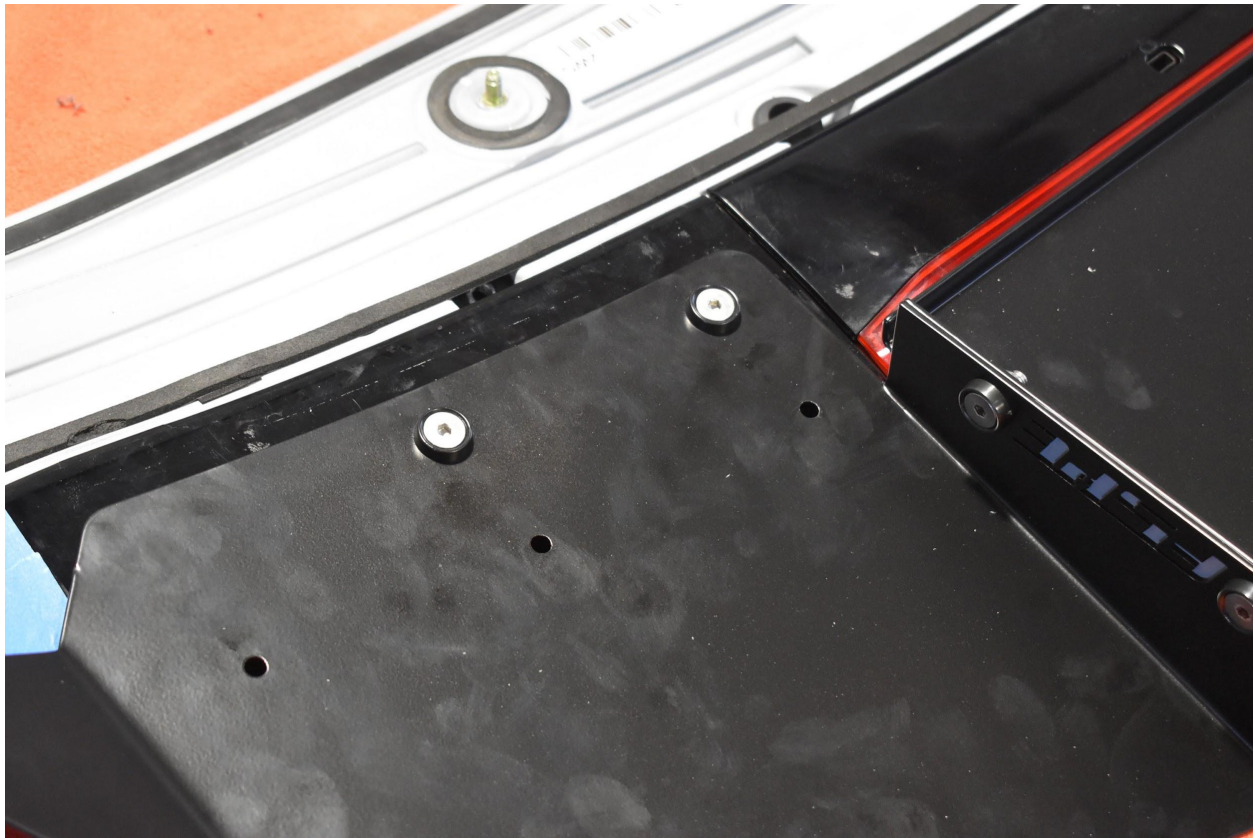


10.) Once the holes are opened up to ½” the well nuts can fit inside. Do NOT push them into the hole!!!! They will be lost and very hard to get back out.



11.) Install your spoiler extension onto the OEM spoiler into the 4 holes /well nuts installed. Thread the 1.25" bolts with countersunk washers through the spoiler extension and into the well nuts. **DO NOT PUSH THE WELL NUTS THROUGH THE HOLE.** This can be avoided by lightly threading the bolts into them and not pushing very hard. Push hard on the spoiler extension to close the gap between the extension and OEM spoiler.

- You can also partially thread the well nuts onto the bolts before putting them into the holes.
- Well nuts expand on the inside as you tighten the bolt.
- They need to be snug. No need to over tighten.
- If you need more help look up how well nuts work online :)



12.) Now you need to drill into the remaining holes for the spoiler extension. Drill either 7/64" or 1/8" holes through the remaining 6 holes in the spoiler extension. **DON'T** go through the other side of the OEM spoiler. Picture on next page.



13.) While pushing down (HARD) onto the spoiler extension install the screws with stainless steel washers into the OEM spoiler.

→ When installing these you need a friend to close the gap between the spoiler and OEM spoiler. I recommend threading them all partially in before tightening any of them up. They are installed when the gap is closed and the washers under the heads don't spin freely.

→ If you need to, slightly loosen the well nuts to help with install.





14.) Make sure everything is tightened and reinstall your OEM spoiler. Make your electrical connections and reconnect your nozzle hose. Put all body panels back in place. Feel free to reapply double sided tape onto the OEM spoiler when doing so - we didn't though :)



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

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Or call/text us at (661) 809-0954