



Rear Diffuser for Hyundai Veloster N

Install Manual



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Approvals: E. Hazen

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1. Introduction

1.1. Overview: Detailed instructions on installing the Verus Engineering dive planes on the Hyundai Veloster N.

1.2. Difficulty: Easy

1.3. Time Required: 1 hour

1.4. Tools Needed:

- 1.4.1.** Ratchet
- 1.4.2.** 4mm Allen Key or Socket
- 1.4.3.** 10mm socket or wrench
- 1.4.4.** 14mm Socket or wrench
- 1.4.5.** M10x1.25 Tap or Thread Chaser
- 1.4.6.** Flashlight
- 1.4.7.** Level



1.5. Rear Diffuser Components

- 1.5.1.** Rear Diffuser
- 1.5.2.** Right-hand Mounting Bracket
- 1.5.3.** Left-hand Mounting Bracket
- 1.5.4.** Stiffening Bracket
- 1.5.5.** Rear Mounting Bracket
- 1.5.6.** Hardware Bag
 - 1.5.6.1.** (16) M6x1.0 16mm Long BHCS (Button Head Cap Screw), Stainless Steel
 - 1.5.6.2.** (16) M6x1.0 Serrated Flange Nut, Stainless Steel

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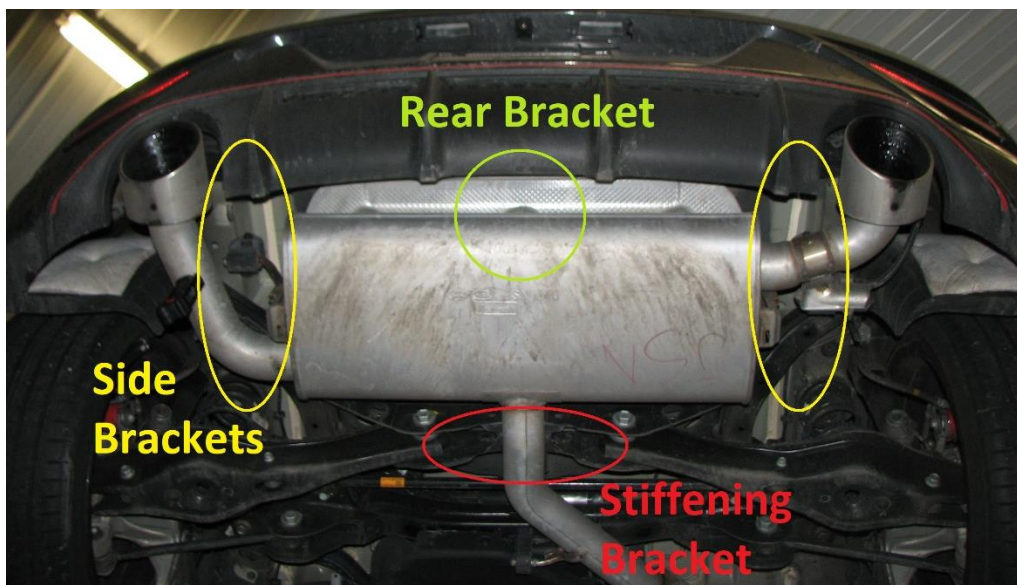
- 1.5.6.3.** (16) M6 18mm Fender Washer, Stainless Steel
- 1.5.6.4.** (3) M6x1.0 45mm Long BHCS, Stainless Steel
- 1.5.6.5.** (3) M6 5mm Long Nylon Spacer
- 1.5.6.6.** (3) M6 10mm Long Nylon Spacer
- 1.5.6.7.** (3) M6 15mm Long Nylon Spacer
- 1.5.6.8.** (4) M10x1.25 20mm Long Hex Head Cap Screw, Zinc Plated Steel



2. Hyundai Veloster N Rear Diffuser Install

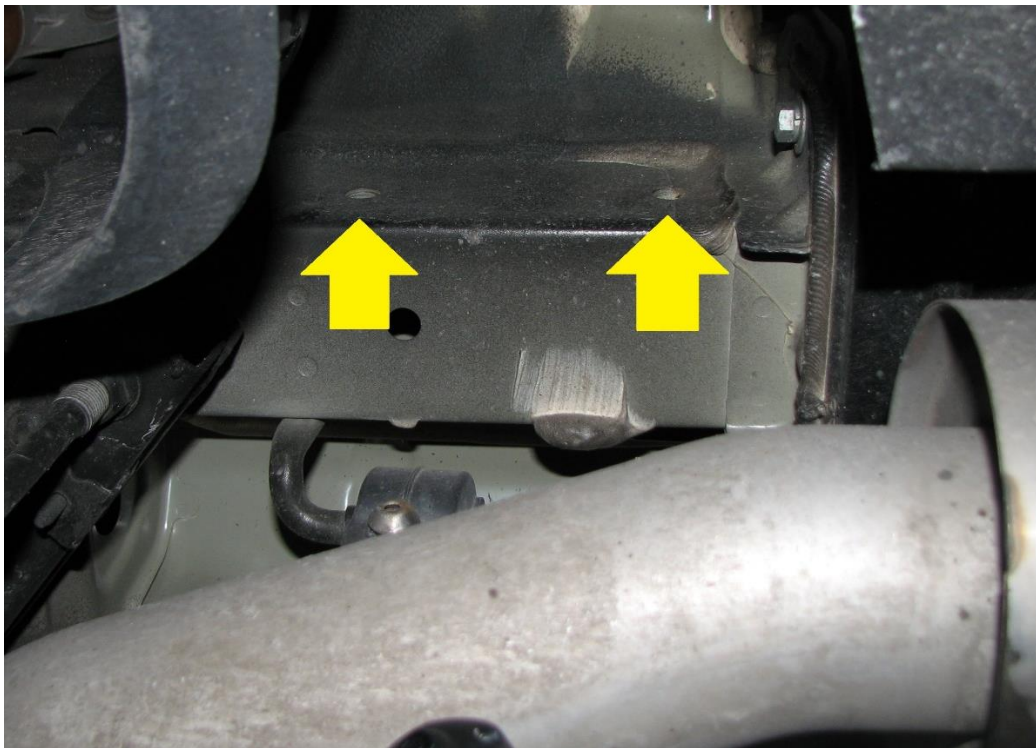
- 2.1.** Verus Engineering is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products.
- 2.2.** Start by jacking the vehicle up, and supporting it safely.
- 2.3.** Here is an overview of the brackets, and their general locations after installation.

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- 2.4. Locate the two threaded holes in both rear wheel wells. These are M10x1.25 thread pitch. We have found these holes to be filled with either road debris, and/or body seam sealer so we highly recommend cleaning the threads out with a tap or thread chaser. Not doing so can lead to damaging the bolt or stripping the threads.

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- 2.5. With the threads cleaned out, use the supplied M10x1.25 bolts to loosely install both side brackets.



- 2.6. Next, move to the rear of the car. Above the muffler (OEM in our case), there is a 10mm nut basically in the middle of the heat shield above the muffler. Remove the nut, and install the

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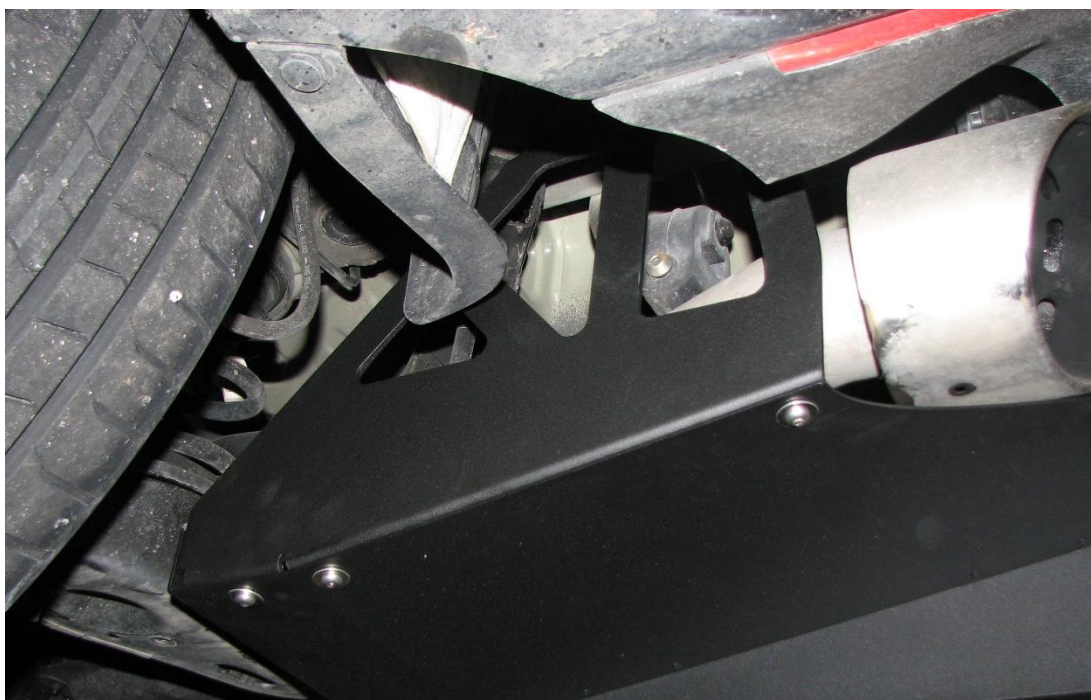
rear bracket as shown by reusing the nut. Do your best to square up the bracket and make it parallel with the bumper. Torque to 6 ft-lbs.



- 2.6.1.** At this point it will help to have a friend to put the diffuser up while you start the bolts. We will be using 16mm M6x1.0 BHCS, 18mm fender washers, and M6 serrated flange nuts.

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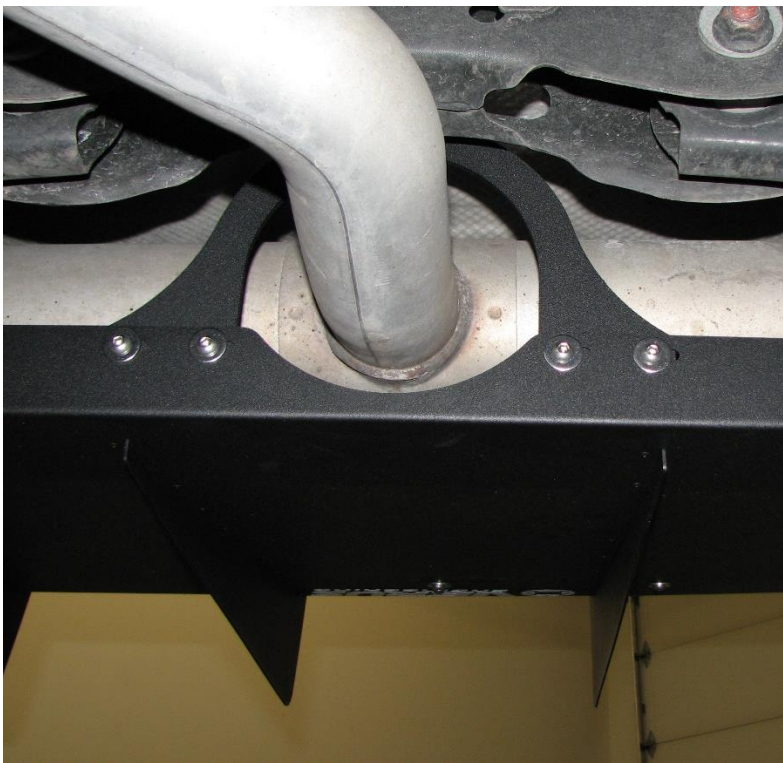
- 2.7. Install the 16mm BHCS in all locations that match with the mounting bracket holes. Install the bolts with the button head and the washer on the bottom of the diffuser. Do not tighten at this time.



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- 2.8.** Install the stiffening bracket OVER the exhaust pipe, and use four more 16mm BHCS, 18mm washers, and serrated flange nuts. You can tighten these bolts at this time. Torque to 6 ft-lbs.



- 2.9.** Check the angle of the diffuser, and adjust if needed. We recommend the strakes be level with the ground.



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- 2.10.** In order to begin the final tightening of all the bolts, you will need to determine how high up you want/need the diffuser to sit. Use the supplied nylon spacers on the three bolts that attach to the rear bracket, and the slots on the side brackets to adjust the height. Note that if you use any spacers, you will need to swap the three middle bolts to the 45mm BHCS.
- 2.11.** Once you have the diffuser where you want it, torque the M6 bolts to 6 ft-lbs, and the M10 bolts to 12 ft-lbs.
- 2.12.** Congratulations on installing the Verus Engineering Rear Diffuser for the Hyundai Veloster N!
- 2.13.** Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; sales@verus-engineering.com.

