

# VERUS ENGINEERING

## Ford Focus ST Rear Diffuser

### Install Manual



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#### Document Revisions

Rev	Date	Author	Description
01	2018/05/17	E. Hazen	Initial release of install manual

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## Ford Focus ST Rear Diffuser – Install Manual

### 1. Introduction

**1.1. Overview:** Detailed instructions on installing the Ford Focus ST Rear Diffuser and Suspension Covers.

**1.2. Difficulty:** Beginner

**1.3. Time Required:** 1.5-2 hours

**1.4. Tools Needed:**

- 1.4.1. Jack
- 1.4.2. Jack Stands
- 1.4.3. Ratchet
- 1.4.4. 10mm socket
- 1.4.5. 12mm socket
- 1.4.6. 14mm socket
- 1.4.7. 4mm allen wrench/socket
- 1.4.8. 5mm allen wrench/socket
- 1.4.9. 10mm wrench
- 1.4.10. Level

**1.5. Rear Diffuser Components**

- 1.5.1. (1) Rear Diffuser
- 1.5.2. (2) Brackets
- 1.5.3. (1) Hardware Bag
  - 1.5.3.1. (9) M6 x 1.0 SS BHCS, 16mm Length
  - 1.5.3.2. (16) M6 SS Washer
  - 1.5.3.3. (9) M6 x 1.0 Flanged SS Serrated Nut
  - 1.5.3.4. (9) M6 x 1.0 SS BHCS, 45mm Length
  - 1.5.3.5. (8) 5mm Long Nylon Spacer
  - 1.5.3.6. (8) 10mm Long Nylon Spacer
  - 1.5.3.7. (8) 15mm Long Nylon Spacer
  - 1.5.3.8. (4) M8x1.25 SS BHCS, 30mm Length
  - 1.5.3.9. (4) M8 Washer, Stainless
  - 1.5.3.10. (4) M8 Aluminum Spacers



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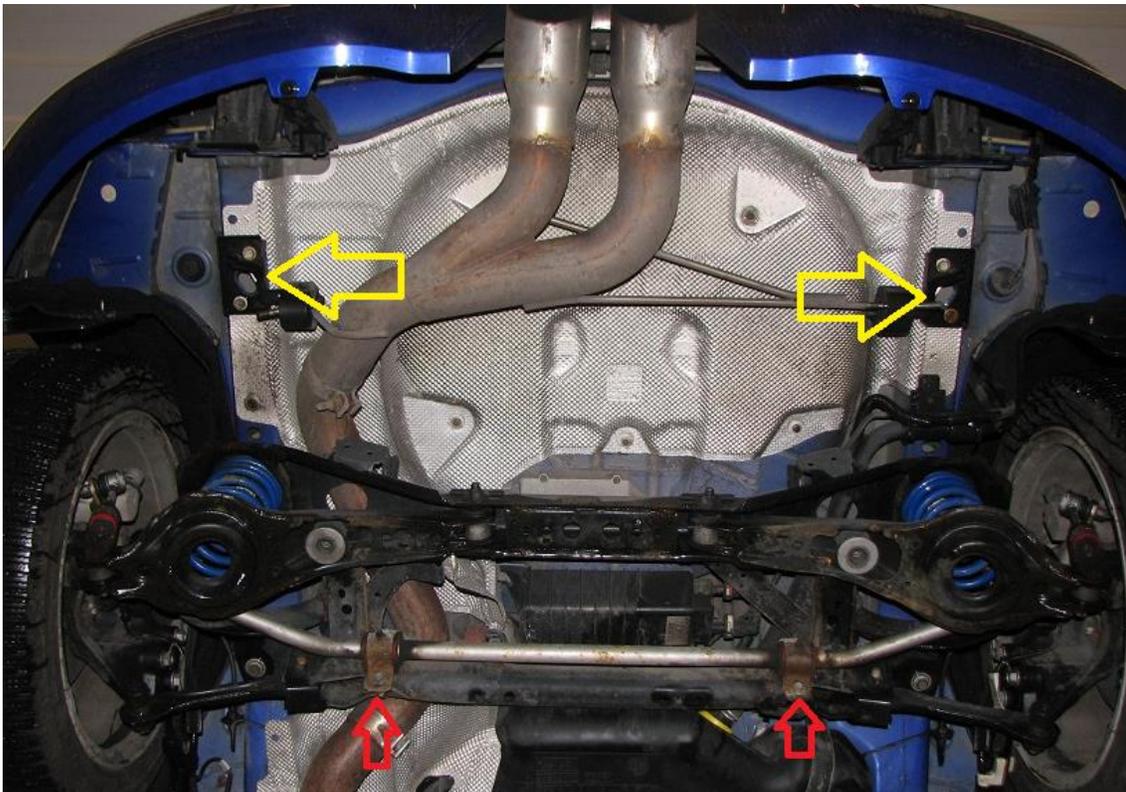
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**1.6. Rear Suspension Cover Components**

- 1.6.1.** (1) Suspension Cover
- 1.6.2.** (2) Brackets
- 1.6.3.** (1) Hardware Bag
  - 1.6.3.1.** (8) M6 x 1.0 SS BHCS, 16mm Length
  - 1.6.3.2.** (8) M6 SS Washer
  - 1.6.3.3.** (8) M6 x 1.0 Flanged SS Serrated Nut

**2. Rear Diffuser Installation**

- 2.1.** Verus is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products
- 2.2.** We begin by jacking the car up. You'll want to choke the front wheels and do this on a flat surface to ensure the car does not want to roll away.
- 2.3.** Place a jack stand on either side of the car, you can use the frame rails or the pinch welds.
- 2.4.** With the rear of the car off the ground, we can get a better idea of what we're working with. The yellow arrows are where the rear diffuser brackets will bolt to, while the red arrows will be used for the suspension cover brackets.



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- 2.5. Remove the two OEM bolts holding on the exhaust hangers. It is recommended to do one side at a time so that one side is holding up the exhaust. These are circled in red below.



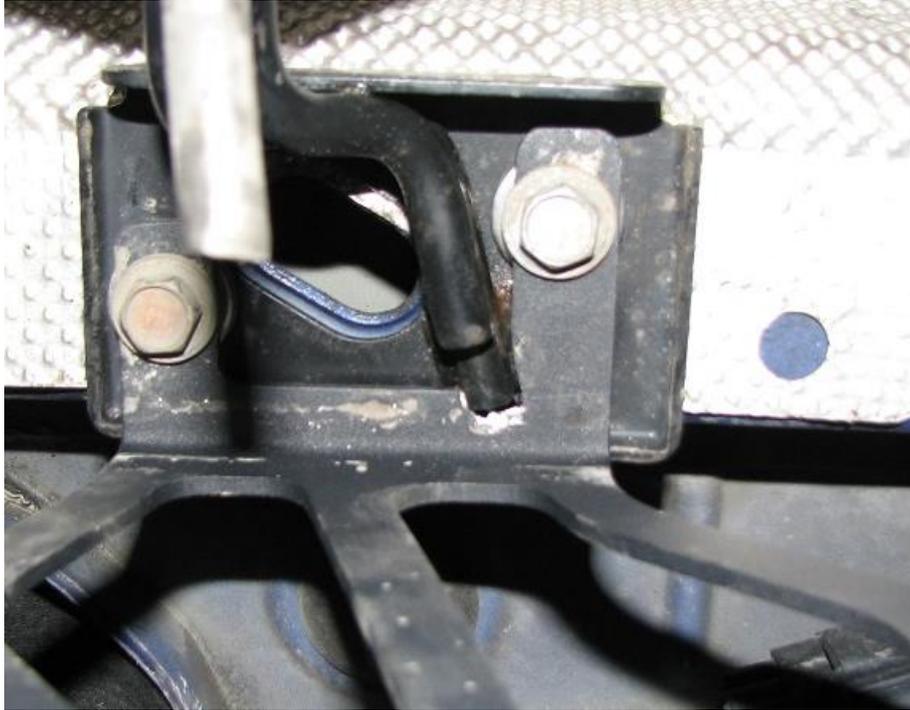
- 2.6. To install the brackets, the bottom surface should slant upward towards the rear with the flanges pointed towards the center of the vehicle. They are side specific.



- 2.7. Install these brackets by using the M8x1.25 x 30mm long BHCS with a washer below the bracket, with the spacers above the bracket. **Note: The below photo does not represent this as it was a prototype unit.**

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- 2.8.** Once both brackets are installed, we can install the rear diffuser. It helps to have a friend who can lend a hand but not entirely necessary.
- 2.9.** Hoist the diffuser up and begin to bolt it to the brackets. The exhaust will dictate the height the diffuser can be installed; we recommend as high as possible. The short bolts can be used if the diffuser is installed all the way up, otherwise the longer bolts with spacers can be used to space the diffuser down slightly.



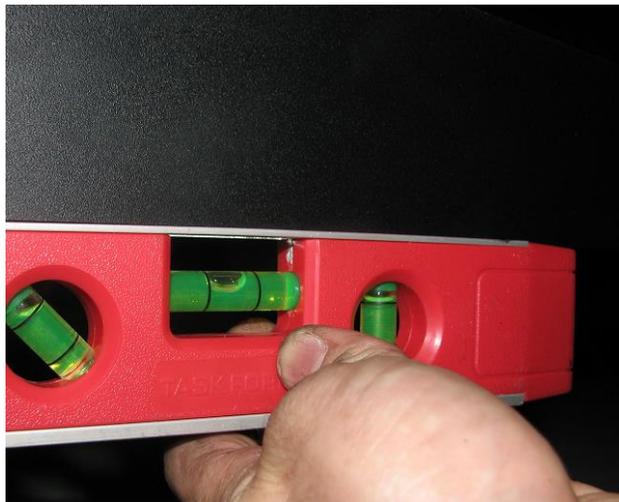
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- 2.10.** Once all (8) bolts, washers, and nuts (and maybe spacers) are placed on the diffuser, you can move onto leveling the diffuser.



- 2.11.** Ensure the diffuser is level laterally (left to right) with a level across the front most portion of the diffuser.
- 2.12.** Moving onto the crucial part of performance, ensure the strakes are level, longitudinally (forward to rear). This ensures the correct diffuser angles are achieved for maximum benefits.



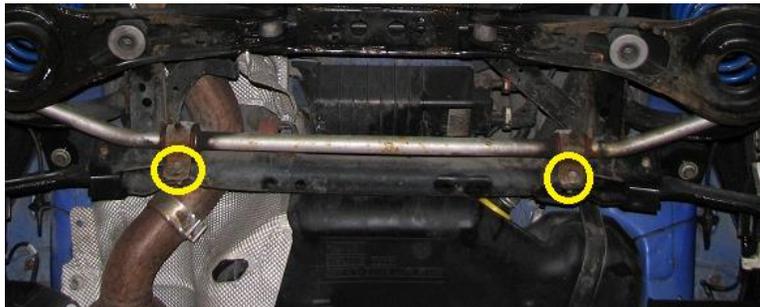
- 2.13.** If everything is level as it should be, fully tighten all the bolts to 6-8 ft-lbs.
- 2.14.** Congratulations, the rear diffuser is fully installed. If you purchased the suspension cover kit as well, move onto step 3.

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**3. Rear Suspension Cover Install**

- 3.1.** Starting with the front brackets, remove the OEM sway bar bolts located below. These are circled in yellow.



- 3.2.** Install the front brackets as shown below. The flange should face forward and be near horizontal when installed.

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- 3.3.** Once both brackets are installed on the sway bar bolts, we can fasten the suspension covers to the front brackets. Use the M6x1.0 bolt, with a washer on the bottom side and then a nut on the top of the bracket.



- 3.4.** At this point, the suspension cover is held up with the front bolts only.
- 3.5.** Using the remaining bolts, washers, and nuts; fasten the suspension cover to the rear diffuser.

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**3.6.** Fully tighten all the bolts and nuts.

**3.7.** This concludes the suspension cover kit install. Please send any comments, concerns, questions, and general feedback to Verus Engineering via [sales@verus-engineering.com](mailto:sales@verus-engineering.com).



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