

VERUS ENGINEERING

Ford Fiesta ST Rear Diffuser

Install Manual



Author: Eric Hazen

Release Date: 2018/05/03

Approvals: E. Hazen, P. Lucas

Document Revisions

Rev	Date	Author	Description
01	2018/05/03	E. Hazen	Initial release of install manual

Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual

CONTENTS

1. Introduction.....	<3>
1.1. Overview	<3>
1.2. Difficulty	<3>
1.3. Time Required	<3>
1.4. Tools Needed	<3>
1.5. Rear Diffuser Components	<3>
2. Front Splitter Install.....	<4-10>

Ford Fiesta ST Rear Diffuser – Install Manual

1. Introduction

1.1. Overview: Detailed instructions on installing the ND Miata rear diffuser.

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. 4mm allen wrench
- 1.4.6. 10mm wrench
- 1.4.7. Level

1.5. Rear Diffuser Components

- 1.5.1. (1) Rear Diffuser
- 1.5.2. (1) Front Bracket
- 1.5.3. (2) Rear Brackets
- 1.5.4. (1) Hardware Bag
 - 1.5.4.1. (15) M6 x 1.0 SS BHCS, 16mm Length
 - 1.5.4.2. (20) M6 SS Washers
 - 1.5.4.3. (15) M6 x 1.0 Flanged SS Serrated Nut
 - 1.5.4.4. (5) M6 x 1.0 SS BHCS, 35mm Length
 - 1.5.4.5. (5) 5mm Long Nylon Spacer
 - 1.5.4.6. (5) 10mm Long Nylon Spacer
 - 1.5.4.7. (5) 15mm Long Nylon Spacer

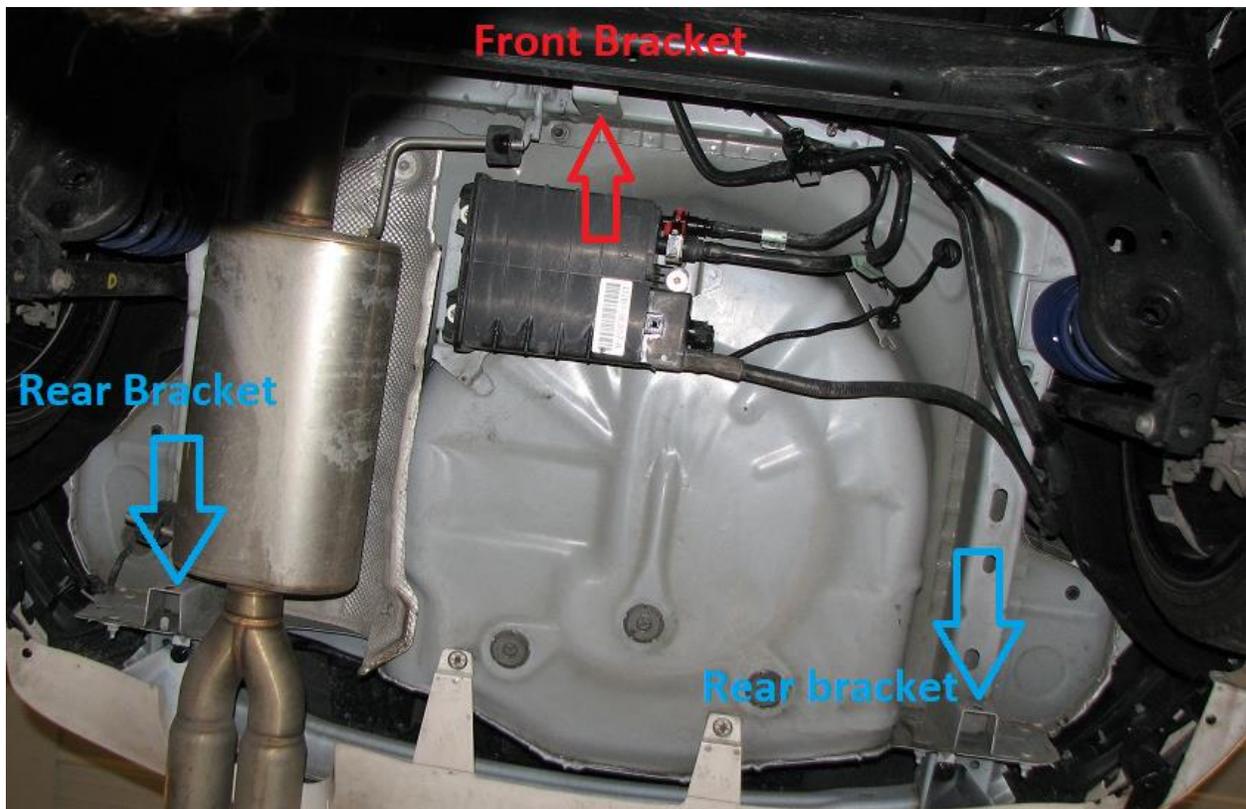


Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual

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.



- 2.5. Starting with the front location, utilizing (2) of the 16mm long bolts, with a fender washer on each, and a nut on the other side. This is shown below.

Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual



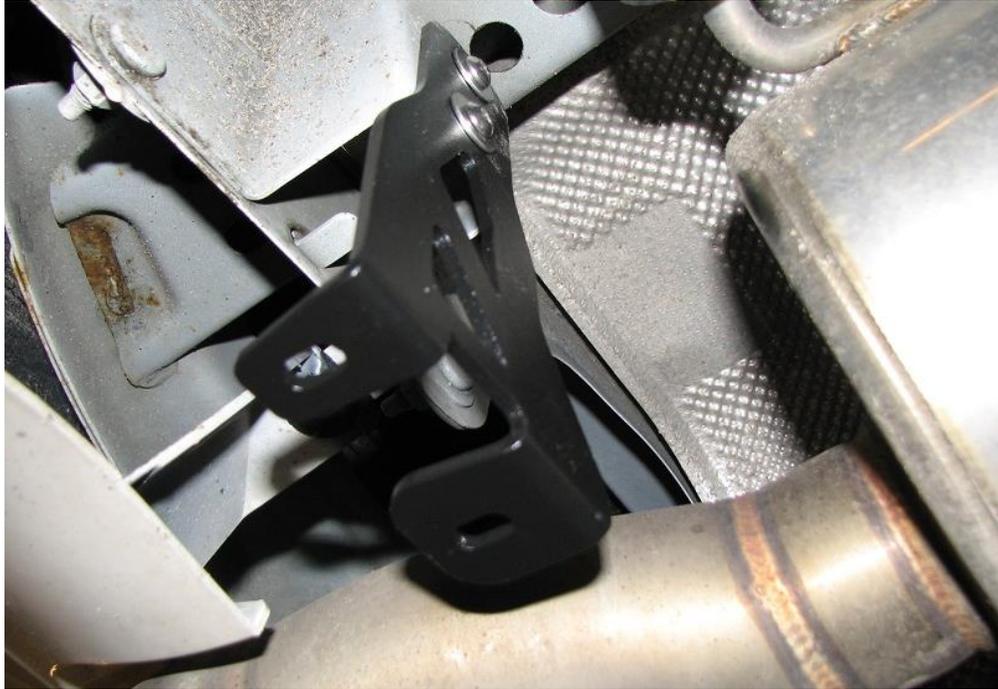
- 2.6. Moving to the rear brackets, we will start with the driver's side (non-exhaust side) rear bracket. This bracket has (3) holes on the bottom flange, which is shown below. The flange points to the rear of the vehicle when it is installed. Use (2) 16mm long bolts, washers, and nuts to install the bracket.



Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual

- 2.7.** To install the passenger side (exhaust side) rear bracket, utilize (2) bolts, washers, and nuts like the other side. This bracket has (2) holes on the bottom flange as shown below. The flange points to the rear of the vehicle, same as the driver's side.

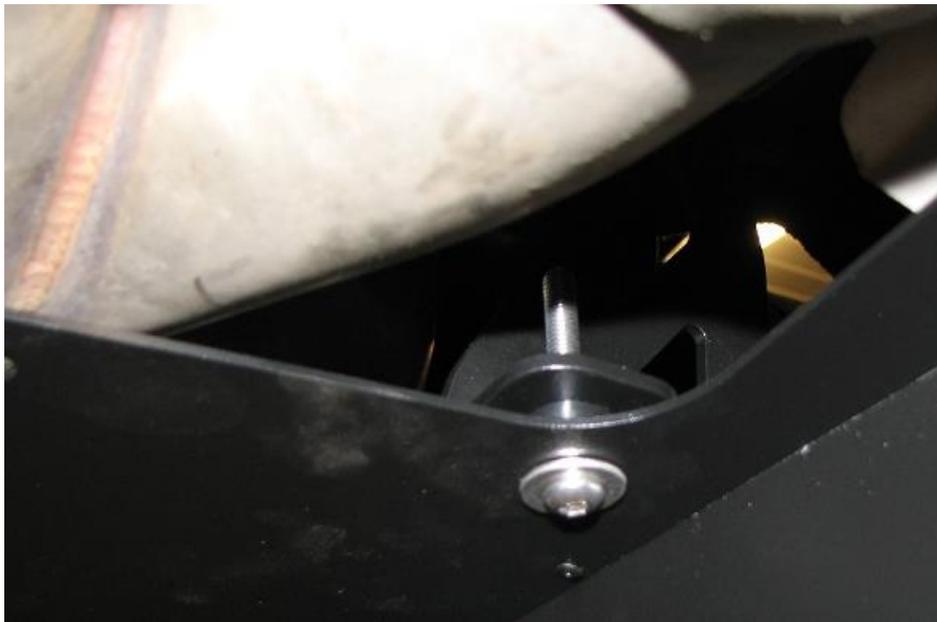


- 2.8.** At this point, everything is ready for the diffuser to be installed. An extra set of hands is definitely helpful at this point in time.
- 2.9.** Mounting height of the diffuser is dependent on the exhaust. The spacers will come into play on the rear (5) mounting points, with no spacers being used for the furthest upward installed height.
- 2.10.** Starting with the front brackets, install (3) M6x1.0 x 16mm bolts with a washer on the front side of the diffuser. Place the nut on the bracket side (rear of diffuser) as shown below. Do not fully tighten these yet.

Ford Fiesta ST Rear Diffuser – Install Manual



- 2.11.** Moving rearward, install bolts in the rear locations. Install height will determine if you use the 16mm long M6x1.0 bolt or the 45mm long bolt. If the diffuser is installed low, longer bolts will be required with more spacers. If the diffuser is installed relatively high up, the shorter bolts can be used. Shown below we used the 5mm spacers.



Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual

- 2.12.** For all the rear locations, the button heads are on the bottom with a washer, and the nut goes on top.



- 2.13.** At this point, the diffuser is completely mounted and all the bolts are snug but not fully tightened.
- 2.14.** With the car on level ground, take the level and take a look at lateral level (left to right) and ensure it is level. It should be as long as the spacers installed are the same throughout.
- 2.15.** 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.

Ford Fiesta ST Rear Diffuser – Install Manual



- 2.16. If everything is level as it should be, fully tighten all the bolts.
- 2.17. Tighten the front (3) M6 bolts (circled in red).
- 2.18. Tighten the front bracket to the chassis to 12 ft-lbs (circled in blue).
- 2.19. Tighten the (4) bolts holding the rear brackets to the chassis, and the (5) bolts holding the rear diffuser to the brackets.
- 2.20. This concludes the Ford Fiesta ST rear diffuser install. Please send any comments, concerns, questions, and general feedback to Verus Engineering via sales@verus-engineering.com.



Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.

Ford Fiesta ST Rear Diffuser – Install Manual



Confidential: Property of Verus Engineering. Not for Distribution outside intended recipient list.