

# VERUS ENGINEERING

## Dive Plane Kit for the Mk3 Ford Focus ST

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### Install Manual



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Approvals: E. Hazen, P. Lucas

#### Document Revisions

Rev	Date	Author	Description
01	2018/07/06	E. Hazen	Initial release of install manual

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## Dive Plane for Ford Focus ST – Install Manual

## 1. Introduction

**1.1. Overview:** Detailed instructions on installing the Verus Engineering dive planes on the Mk3 Ford Focus ST.

**1.2. Difficulty:** Easy

**1.3. Time Required:** 1-1.5 hour

**1.4. Tools Needed:**

- 1.4.1. Tape
- 1.4.2. Drill
- 1.4.3. Scissors
- 1.4.4. Phillips screwdriver
- 1.4.5. 1/8" Drill Bit
- 1.4.6. 11/64" Drill Bit
- 1.4.7. Center Punch or Sharp Tap
- 1.4.8. Counter Sink
- 1.4.9. 7mm Wrench
- 1.4.10. T30 Torx Bit
- 1.4.11. Ratchet for Torx Bit
- 1.4.12. Flat Head Screwdriver
- 1.4.13. 2.5mm Allen Wrench

**1.5. Dive Plane Components**

- 1.5.1. Left-hand Dive Plane
- 1.5.2. Right-hand Dive Plane
- 1.5.3. Hardware Bag

**1.5.3.1.** (9) M4 x 0.7 Stainless Button Head Cap Screw (BHCS), 12mm Long

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- 1.5.3.2.** (9) M4 x 0.7 Nyloc Nut, Stainless
- 1.5.3.3.** (18) M4 Large Diameter Washers, Stainless
- 1.5.3.4.** (2) Paper Template



## 2. Mk3 Ford Focus ST Dive Plane 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.** It is wise to have the car fairly clean for this install, or at least the front bumper. Due to the template and drilling on the vehicle, starting with a clean car reduces the risk of scratches and improves install ease.
- 2.3.** We begin by gaining access to rear of the front bumper so that we can place the nuts on the back side of the bumper. To do this, we need to remove some of the fender liner.
- 2.4.** To remove the fender liner or at least gain access to the rear of the bumper, we will need to remove (3) T30 Torx screws from the fender liner, shown below.

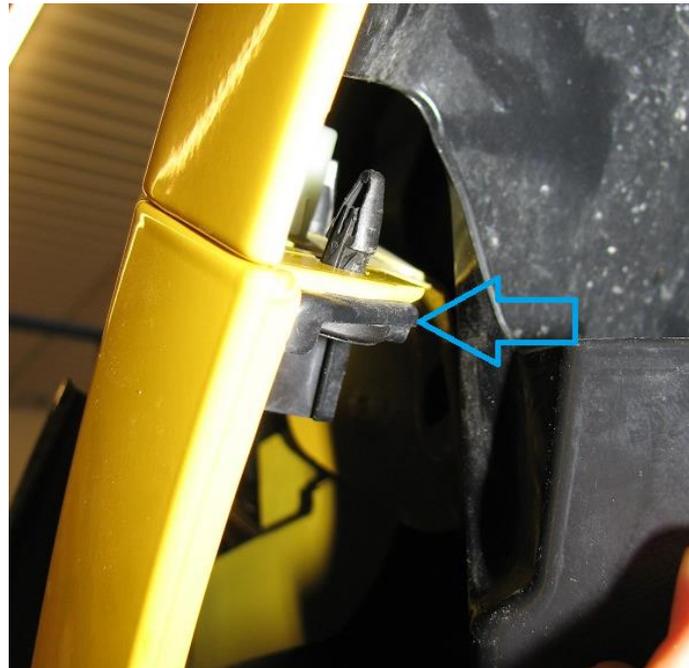
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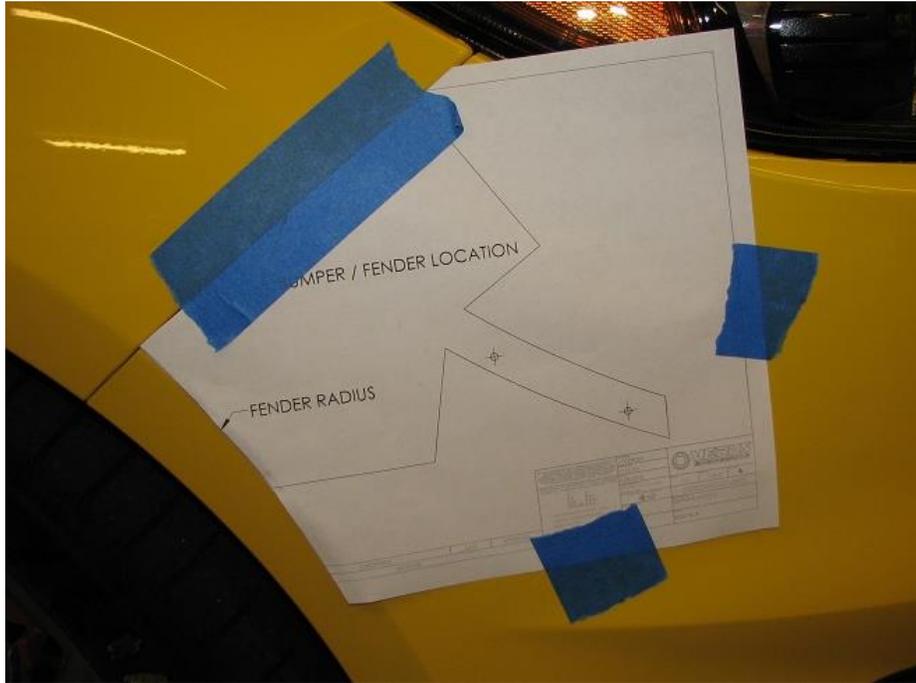
- 2.5. To further improve ease of install, you can loosen the bumper by removing the single plastic push pin with a flat head and pulling the bumper away from the car.



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- 2.6. Using the supplied template, cut along the fender radius and the bumper line as written on the paper template.
- 2.7. Place the cut template on the bumper as shown below. Note how it lines up properly with the lines of the bumper.



- 2.8. Before marking the holes with a center punch or tap, ensure these holes on the template line up with the dive plane's holes and that the dive plane mount surface fits with the bumper well.



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- 2.9.** Mark the center of the holes with a center punch or tap. **You will use the paper templates for the top (2) holes but will need to use the dive plane for the most forward hole.**



- 2.10.** Begin drilling the holes with a 1/8" drill bit.



- 2.11.** Increasing the drill size to 11/64" and open the holes to 11/64".



- 2.12.** Using the countersink, clean the holes from any burrs from drilling.

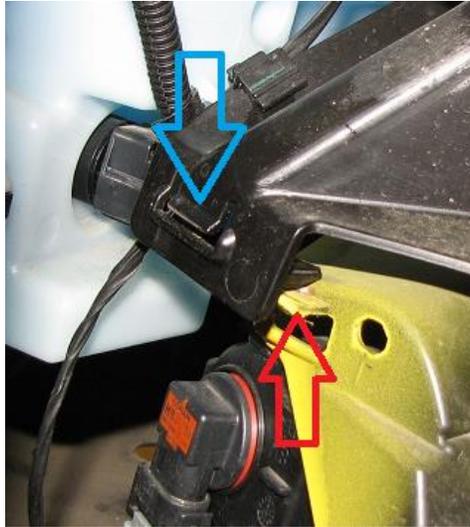


- 2.13.** Using the M4 bolts, and a washer on the outside if you chose, begin installing the dive planes. **We chose not to use a washer on the outside but there is enough supplied in the kit to do a washer on both sides.**

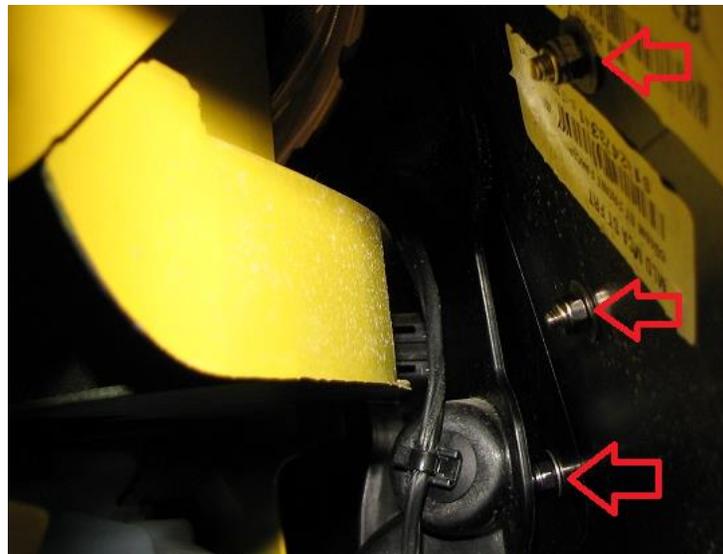
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- 2.14.** Reaching your hand behind the front bumper you can start threading on the washer and then the nyloc nut.
- 2.15.** The 2<sup>nd</sup> location from the front is difficult to reach due to some plastic behind the bumper, you can move this by pressing the plastic clips and pulling the black plastic piece rearward. This is shown below.



- 2.16.** With the nuts and washers on the rear side of the bumper, you can tighten the bolts on the dive planes. We found tightening the bolts from the outside while holding the nuts on the rear with a wrench easiest.



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- 2.17.** Tighten torque should be no more than 40-60 in-lbs. The nyloc will resist backing off, so the fasteners only need to be snug to the bumper.



- 2.18.** Repeat the steps on the other side of the car.
- 2.19.** Reinstall everything in reverse order.
- 2.20.** Congratulations on installing the Verus Engineering dive planes for the Subaru BRZ. Enjoy the benefits the dive planes have on front end downforce.
- 2.21.** Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; [sales@verus-engineering.com](mailto:sales@verus-engineering.com).



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