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Fuel Starvation Door for the FRS/BRZ/GT86/WRX

Install Manual



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Release Date: 2017/08/03

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Document Revisions

| Rev | Date | Author | Description |
|-----|------------|----------|-----------------------------------|
| 01 | 2017/08/03 | E. Hazen | Initial release of install manual |
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Fuel Starvation Door for FRS/BRZ/GT86/WRX – Install Manual

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1. Introduction

1.1. Overview: Detailed instructions on installing the fuel starvation door for the FRS, BRZ, GT86, and WRX.

1.2. Difficulty: Easy

1.3. Time Required: 1 hour

1.4. Tools Needed:

1.4.1. 10mm Wrench

1.4.2. Ratchet

1.4.3. Hammer

1.4.4. Extension

1.4.5. Screwdriver

1.4.6. Razor Blade

1.4.7. Need Nose Pliers

1.5. Fuel Starvation Door Components

1.5.1. Fuel Starvation Door

1.5.1.1. Viton O-Ring, Installed, Good for Ethanol and pump fuels

1.5.1.2. Anodized Fuel Starvation Door



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2. Fuel Starvation Door Install

- 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 releasing the pressure from the fuel pump lines. You can do this by removing the fuel pump fuse, the fuel pump wire harness, or just deal with a little spray when unhooking the pressure line.
- 2.3. Moving forward, we need to access the fuel basket. To do this, we slide the driver's seat forward and locate a 10mm bolt that needs removed (circled below in red).



- 2.4. The rear of the seat needs pushed down and then forward to unlatch from the chassis. The seat has a loop that attaches to the chassis, it is located roughly in the middle of the seat. Shown below is the bottom of the seat cushion when removed.



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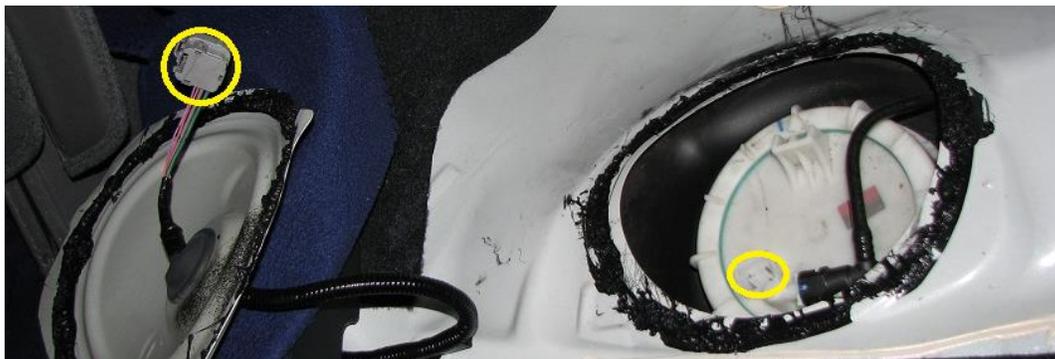
2.5. With the rear seat out, we can work on getting the basket out.



2.6. Use a screwdriver to pull up on the metal lid. With a razor, cut the black silicone to aid in removal.



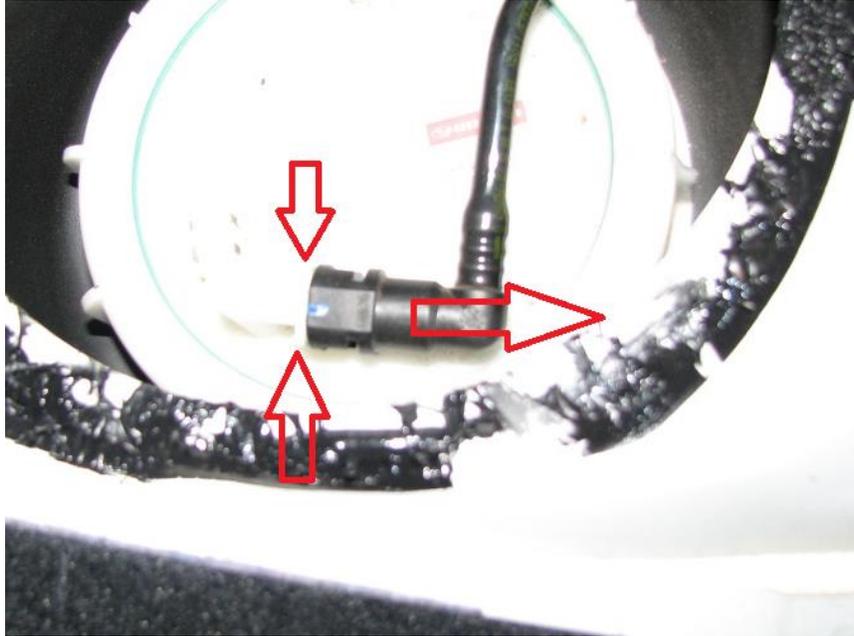
2.7. Remove the plug from the top of the basket, circled in yellow below.



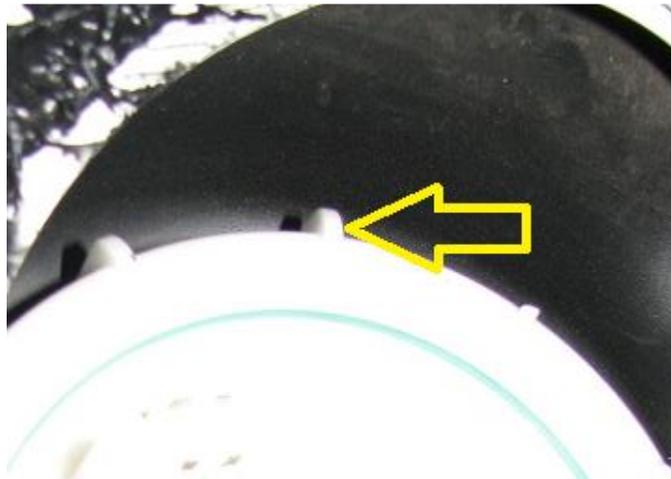
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- 2.8. Next, we remove the fuel hose from the top of the basket by pressing the white plastic pieces inward and pulling the hose off the nipple.



- 2.9. Using a small hammer and an extension or large screwdriver, tap the sides of the basket to loosen the cap that holds the basket into the tank.

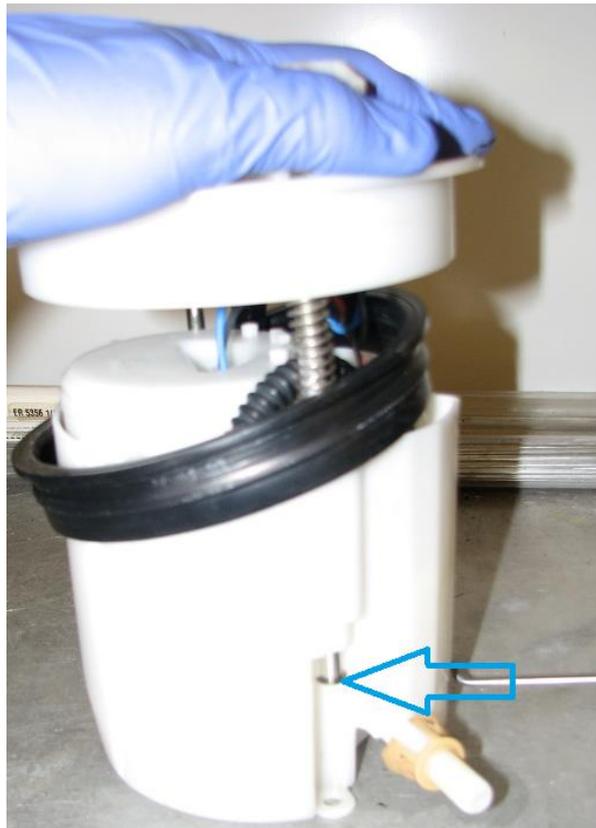


- 2.10. When the cap is unscrewed, the basket can come out of the tank. You will have to remove the cross-over tube circled in red below before removing the basket completely from the car.

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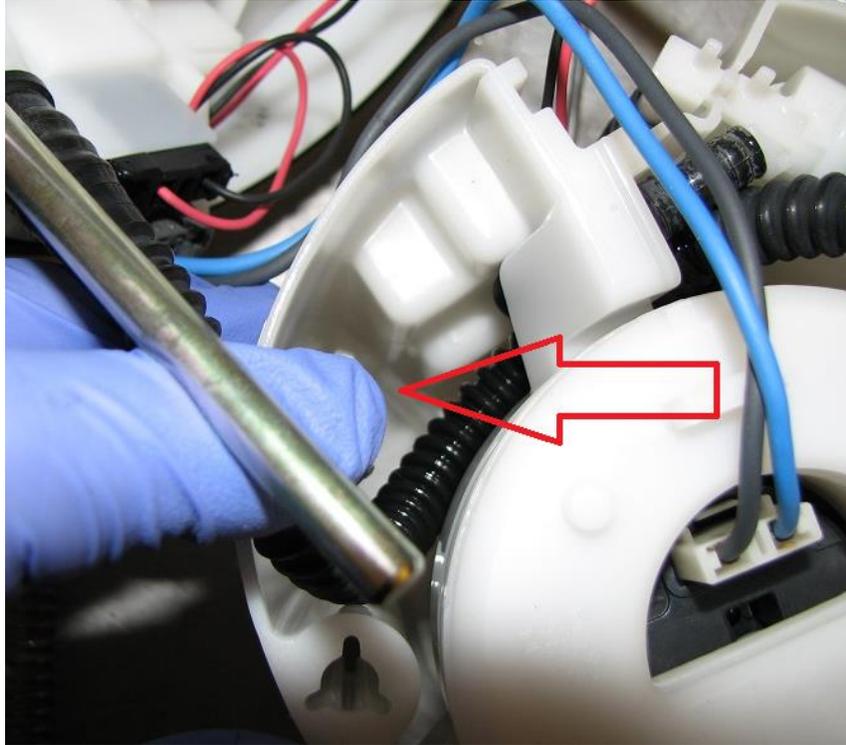
- 2.11. With the basket on a work bench, press down on the top to expose an e-clip hat needs removed. Remove this with needle nose pliers. This is circled in blue below.



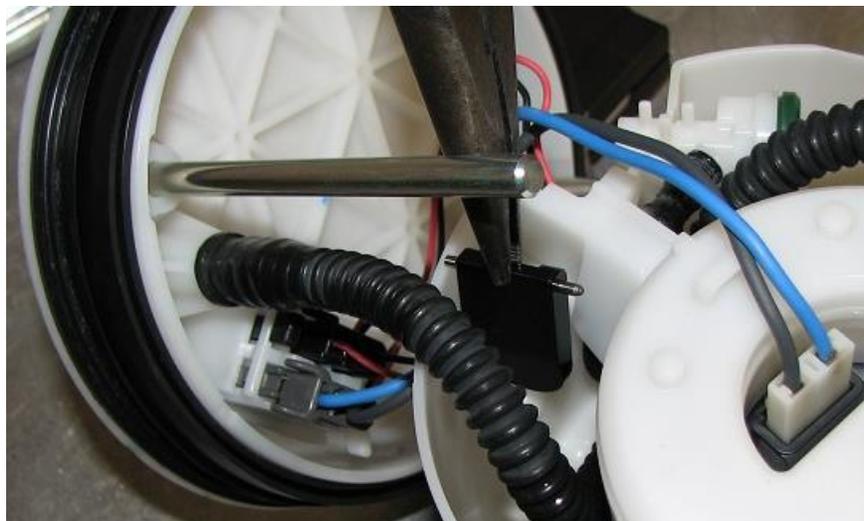
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- 2.12.** With the clip removed, the top of the basket can be removed from the bottom of the basket. We can gain access to the point needed for the install of the fuel starvation door at this time.



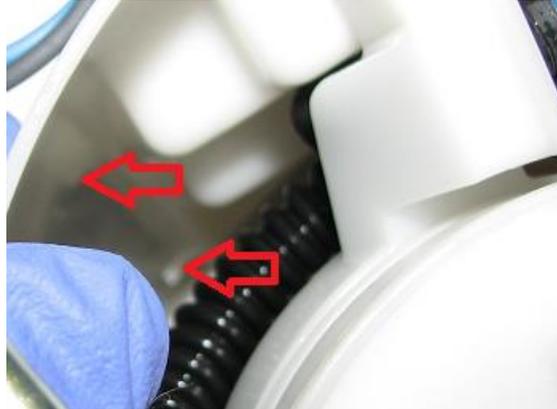
- 2.13.** Using needle nose pliers, grasp the top of the door as shown below.



- 2.14.** Gently place the door on the top of the two U-shaped pieces shown below.

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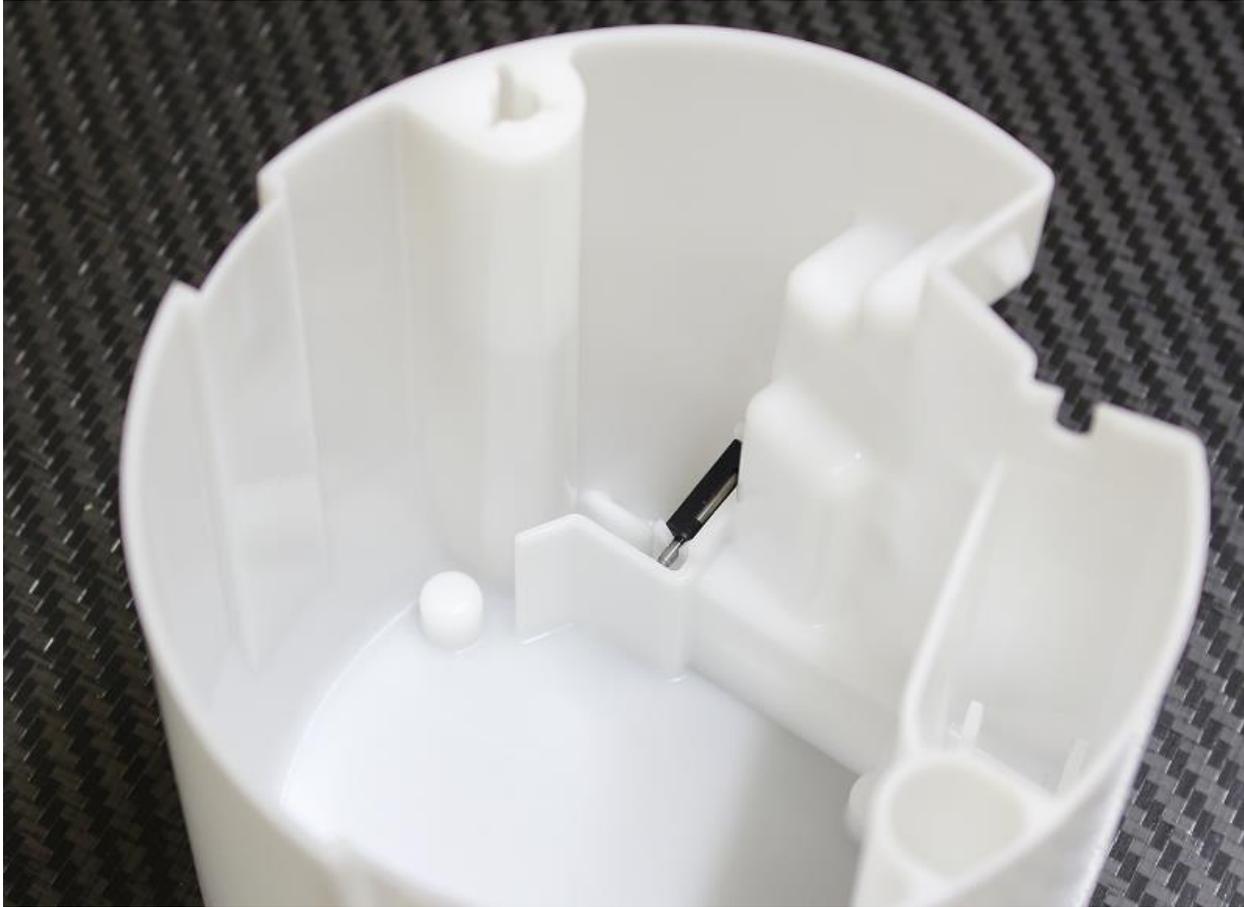
- 2.15.** With it gently placed here, you can remove the needle nose from holding the door.
- 2.16.** Using the tip of the needle nose pliers, press firmly down on the top of the door. You will hear and feel a very distinctive and positive engaging click. The door is now installed.



- 2.17.** If the door is installed correctly, it should be able to move freely when the basket is moved around. It acts as a hinged door at this point.
- 2.18.** Reinstall everything in reverse order.
- 2.19.** Enjoy a car with significantly less fuel starvation during left hand turns on the track! Please send any feedback, questions, comments, etc to Verus Engineering via e-mail, sales@verus-engineering.com.

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