

VERUS ENGINEERING

Front Splitter Support Kit – Toyota Supra Install Manual



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Release Date: 2023/03/07
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Document Revisions

Rev	Date	Author	Description
01	2023/03/07	T. Lang	Initial release of install manual

Splitter Mount Upgrade Kit, Toyota Supra – Install Manual

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1. Introduction

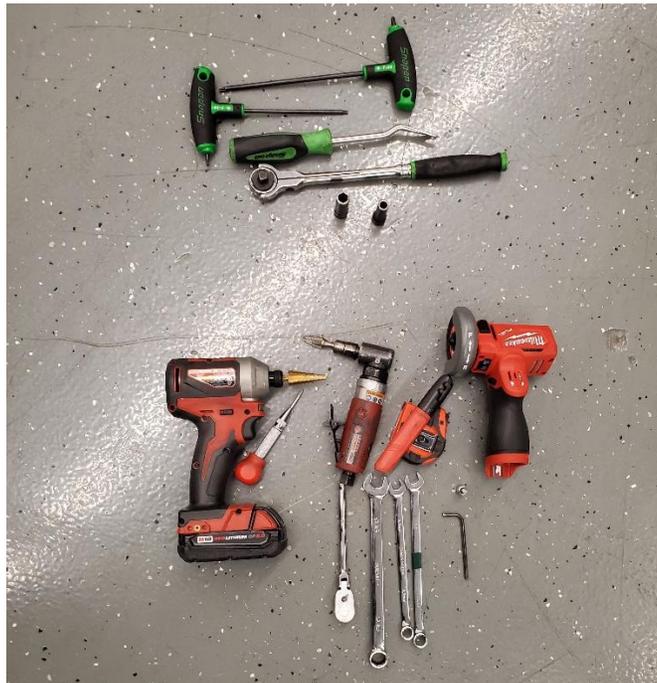
1.1. Overview: Detailed instructions on installing the Verus Engineering Splitter Mount Upgrade for the Toyota Supra.

1.2. Difficulty: Moderate

1.3. Time Required: 3-4 hours

1.4. Tools Needed:

- 1.4.1. Ratchet
- 1.4.2. 5mm Allen Key or Socket
- 1.4.3. 4mm Allen Key or Socket
- 1.4.4. 8mm Socket
- 1.4.5. 10mm Socket or Wrench
- 1.4.6. 9/16" Wrench
- 1.4.7. Drill
- 1.4.8. Cut-off Wheel or Grinder
- 1.4.9. 3/8" Drill Bit / Step Drill Bit
- 1.4.10. 1/8" Drill Bit
- 1.4.11. Center Punch
- 1.4.12. Tape Measure
- 1.4.13. Marker
- 1.4.14. Clip Removal Tool or Flat tip screwdriver



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1.5. Splitter Mount Upgrade Kit Components

1.5.1. (4) Pre-Drilled Clevis

1.5.2. (2) Adjustable Support Rod

1.5.3. Hardware Bag

1.5.3.1. (4) M6 x 1.0 Heavy Duty Rivet Nut

1.5.3.2. (4) M6 x 1.0 x 25mm Long Low Profile SHCS (Socket Head Cap Screw), Stainless

1.5.3.3. (4) M6 x 1.0 x 25mm Long BHCS, Stainless

1.5.3.4. (4) 12mm O.D. M6 Washer, Stainless

1.5.3.5. (4) M6 x 1.0 Serrated Flange Nut, Stainless



2. Toyota Supra Splitter Mount Upgrade Kit 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.

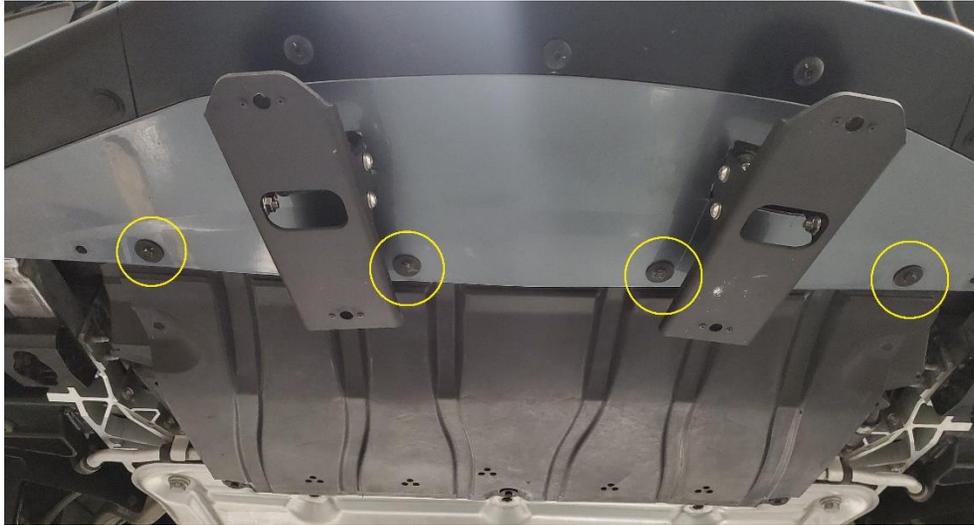
2.2. We begin by gaining access to underneath the hood. Pop the hood and open it.

2.3. Jack the car up, and support it safely.

2.4. Remove the front bumper.

2.4.1. Remove the four under panel screws as well as the splitter mounting brackets shown below.

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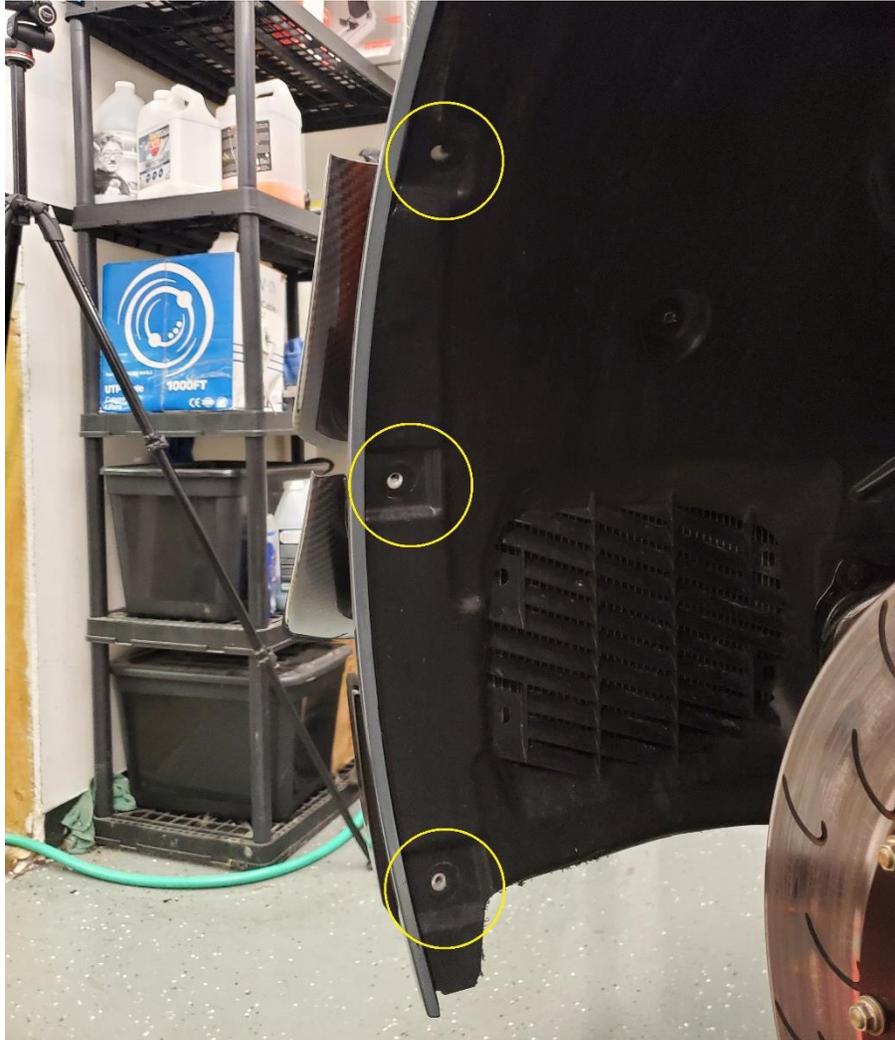
2.4.2. Peel up the weatherstrip, and remove the top bolts.



2.4.3. Remove the tow hook if you have one installed.

2.4.4. Remove the fender liner bolts on both sides.

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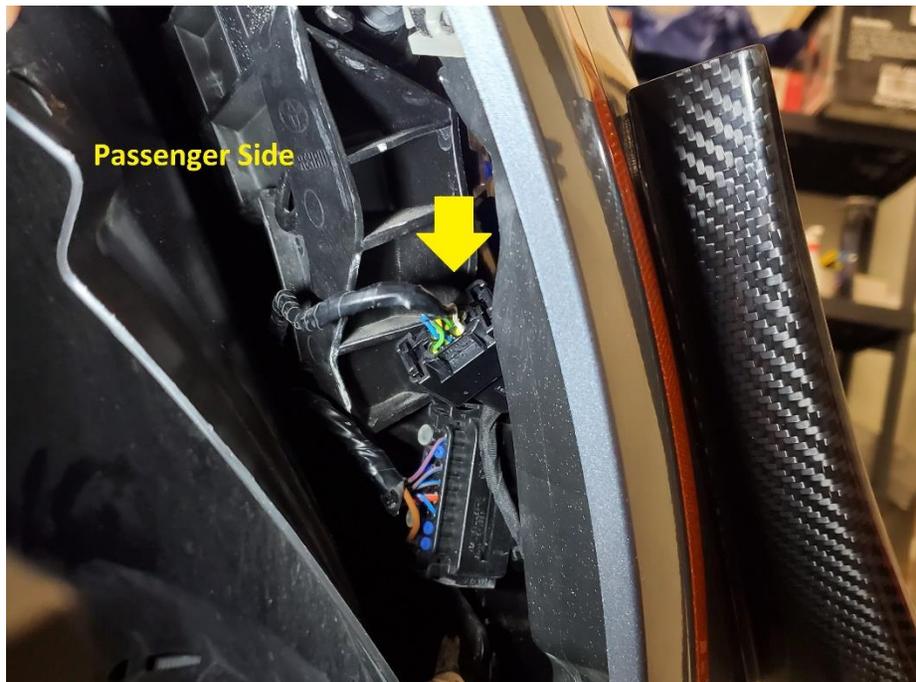


- 2.4.5.** Remove the upper corner bolts of the front bumper. It's a good idea to trace an outline around the bolts so that you can ensure the bumper goes back in the same spot during reassembly.

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- 2.4.6. Disconnect the connectors on each side of the bumper, and unclip them from the chassis.

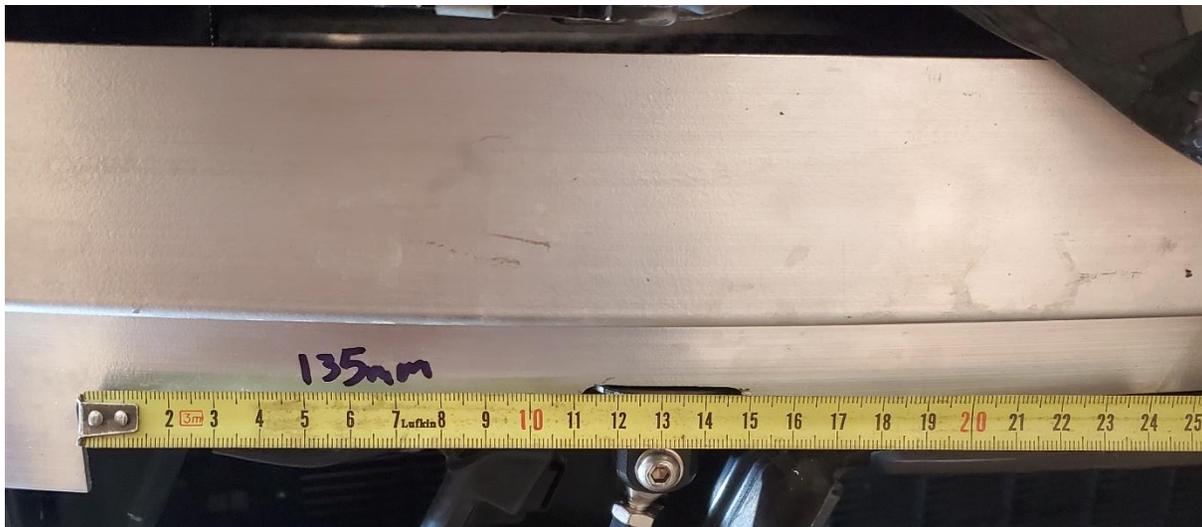


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2.4.7. Remove the front bumper. Taping the fender, and headlight can help prevent scratches.

2.5. Measure 135mm or about 5 3/8" from the edge of the crash bar surface shown below.



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- 2.6. Mark about 13mm or 1/2" on either side of that mark, and remove the lip so that the clevis can sit flat on the bottom surface of the crash bar.



- 2.7. On the bottom side of the crash bar, hold a clevis up, center it, and make a mark. Follow up with a center punch to aid in drilling.

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- 2.8. Drill the marked spot to 3/8". Using a smaller drill with a step drill bit is advised. Larger drills/drill bits may not fit between the crash bar and pedestrian bar.
- 2.9. Install a rivet nut into the hole using the provided tool. To properly install the rivet nut, you will want to thread the rivet nut onto the tool as shown below. **Note the rivet nut in the picture below is incorrect for this segment. Use this photo as a visual aide only.**



- 2.10. Using the 9/16" wrench and the 5mm allen wrench, hold the rivet nut install tool steady and tighten the allen bolt. You will have some initial resistance, then the rivet nut will begin to pull tighter on the material.

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- 2.11. Next, we'll install the rivet nut for the lower clevis.
- 2.12. Measure 400mm or 15 3/4" from the outer edge of the pedestrian bar as shown, and make a mark on the **FLAT** portion of the bar. Center a clevis over that mark, and make a new mark at the center of the clevis. Drill a 3/8" hole, and install a rivet nut just as you did in 2.8 – 2.10.



- 2.13. Assemble the support rod as shown. Note: There is a left-hand thread and a right-hand thread rod end.

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- 2.14.** Install the clevises to the rivet nuts using the 25mm long low profile SHCS going through the top of the clevis as shown below. Do not tighten at this time.



- 2.15.** Temporarily install the support rod to the clevises to get the correct angle of both clevises. Once you've done that, torque the SHCS to 6 ft-lbs.
- 2.16.** Next, use the 25mm M6 BHCS, 12mm washers, and serrated flange nut, and install them as shown below. The washer should be on the bolt side. Torque to 6 ft-lbs.

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- 2.17. Repeat the process for the opposite side.
- 2.18. Reinstall the bumper in reverse order.
- 2.19. Congratulations on installing the Verus Engineering Splitter Mount Upgrade Kit for the Toyota Supra.
- 2.20. Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; sales@verus-engineering.com.