



VERUS ENGINEERING

Pitch Stop Brace – 2022+ Subaru WRX (VB) Install Manual



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1. Introduction

1.1. Overview: Detailed instructions on installing the Verus Engineering Pitch Stop Brace for the Subaru VB WRX.

1.2. Difficulty: Easy

1.3. Time Required: 1 hour

1.4. Tools Needed:

- 1.4.1. 12mm Socket
- 1.4.2. 14mm Socket
- 1.4.3. Ratchet and/or Impact
- 1.4.4. Torque Wrench
- 1.4.5. Flathead Screwdriver
- 1.4.6. High-Temp Silicone Grease (Sil-Glyde)

**1.5. Pitch Stop Brace Components**

- 1.5.1. (1) Anodized Pitch Stop Brace
- 1.5.2. (1) Hardware Bag
 - 1.5.2.1. (1) Small Inner Bushing Sleeve
 - 1.5.2.2. (1) Large Inner Bushing Sleeve
 - 1.5.2.3. (4) 70A Durometer Bushing (Black)
 - 1.5.2.4. (4) 80A Durometer Bushing (Grey)
 - 1.5.2.5. (4) 90A Durometer Bushing (Blue)



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2. Subaru VB WRX Pitch Stop Brace 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 the underside the hood. Pop the hood and open it fully.



- 2.3. First, we need to remove the charge cooler. Using a 12mm socket and the driver of choice, remove the bolts securing the charge cooler.



- 2.4. After the bolts are removed, use your flathead screwdriver to loosen the charge pipe clamp.

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2.5. Fully remove the charge cooler and set aside until it is time to reinstall.



2.6. Now it is time to assemble the Pitch Stop Brace with your choice of bushing durometer.

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Durometer



- 2.7. After you select which durometer bushings you would like to run, apply some grease to the inside and outside of the bushing halves that will be pressed into the brace.



- 2.8. Insert the bushing halves into the brace.



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- 2.9. After the bushing halves are installed, you can now install the bushing sleeves. **Note: There is a small sleeve and a large sleeve. The longer sleeve gets installed in the thicker side of the brace. They should sit flush with the bushing halves once fully installed.**



- 2.10. Next, we need to remove the factory unit from the car. Do so by using a 14mm socket and your choice of driver. The engine side has a nut and bolt, so ensure you are holding the nut when loosening the bolt so that you do not lose the nut inside the engine bay. **Note: We have a prototype unit installed, but the removal will be the same for the factory unit.**



- 2.11. Remove the factory brace from the car.
- 2.12. Insert your assembled Verus Engineering Pitch Stop Brace into the firewall side first, as shown below. Using the OEM hardware, start this rear bolt by hand.

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- 2.13. Once the rear bolt is started, you can now slide the front of the brace into place. Again, using the OEM hardware, start the front nut and bolt by hand.
- 2.14. Once both bolts are started by hand, torque the rear bolt to 43 ft-lbs and the front bolt to 37 ft-lbs.
- 2.15. Reinstall charge cooler in reverse order from earlier and torque bolts to 12 ft-lbs.
- 2.16. Congratulations on installing the Verus Engineering Pitch Stop Brace for the Subaru VB WRX.
- 2.17. Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; sales@verus-engineering.com.



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