# Driveshaft Carrier Bushings
# For 2002+ WRX/STI

2025-04-24 PSP-DRV-210

Thank you for purchasing this PERRIN product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email Tech@PERRIN.com
Instant Chat off the main page of www.PERRIN.com
Or simply call our tech team at 503-693-1702

### GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

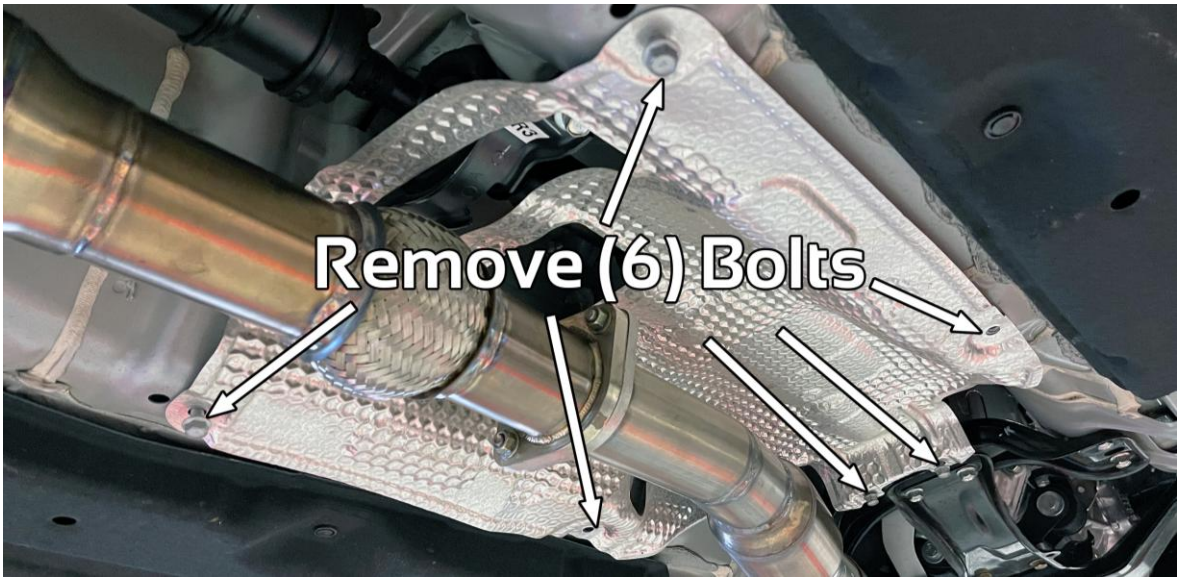
**WARNING:** This product can expose you to chemicals including Lead which is known to the State of California to cause cancer birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

## SPECIAL NOTES:

- A slight increase to NVH (Noise, Vibration, and Harshness) is normal to find after installing this part.
- If the bearing on your driveshaft (not the rubber surround but the bearing inside of the rubber) is bad, a new driveshaft is recommended as the PERRIN carrier bearing support bushings will accentuate the noise from the bad bearing.
- The PERRIN Carrier Bushings are designed to align the driveshaft not only left to right, but also up and down making the two driveshafts more parallel. In doing so, this will drop your driveshaft down slightly and may cause a slight clearance issue with aftermarket exhausts. It may require that some adjusting of an aftermarket exhaust will be required after the installation.
- For BRZ/FR-S/86/GR86 customers, we recommend installing the bushings upside down compared to the instructions. This aligns the front and rear driveshaft to be more parallel to each other.

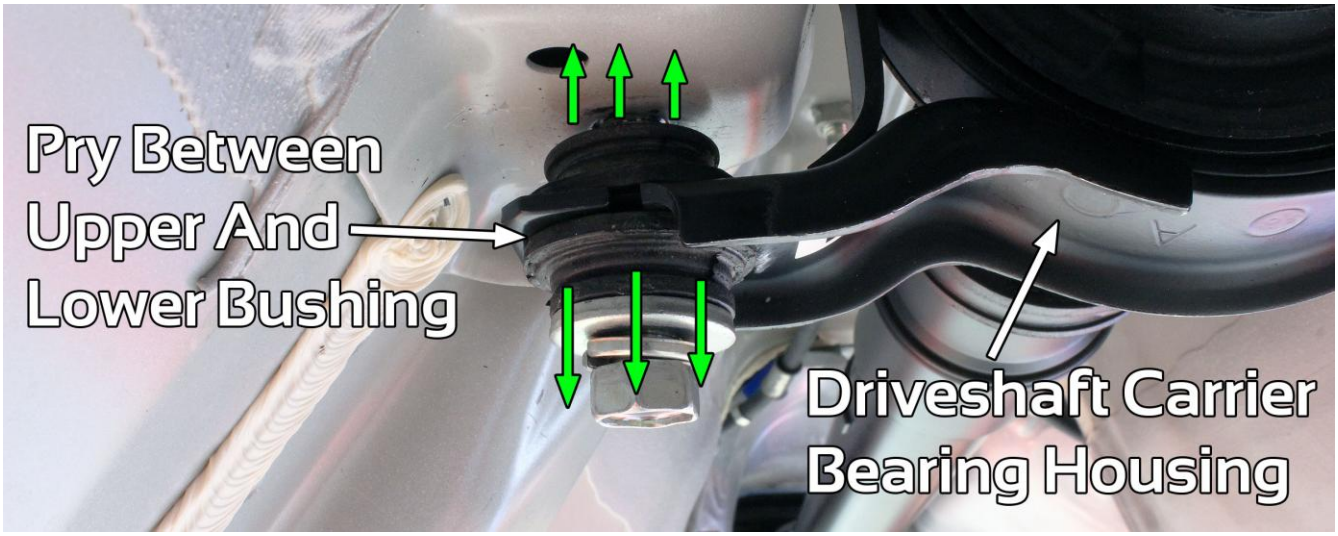
## Parts Included with the PERRIN WRX Carrier Bushings:

| QTY | Part Number | Description |
|---|---|---|
| 2 | X-PSP-DRV-210-1 | Driveshaft Carrier Bushing Upper/Male Type |
| 2 | X-PSP-DRV-210-2 | Driveshaft Carrier Bushing Upper/Female Type |



# Installation of PERRIN Carrier Bearing Support Bushings

1. Raise vehicle off ground using vehicle hoist or proper jack and jack stands. Never support vehicle with jack as death or injury may occur.
2. Locate (4 to 6) M8 bolts and remove exhaust heat shield from car. **NOTE: Removing this can be done with the OEM exhaust in place but it can be tight pulling it out. It will require minor bending of the shield to get it out but can be bent back into place during reinstallation.**




3. Starting with one side, remove (1) M10 bolt securing driveshaft support to chassis and let driveshaft hang down.
4. Using one of the below methods remove the upper and lower bushing from the driveshaft carrier. **NOTE: This step can be difficult as the OEM parts are pressed together and start to corrode over time. Using a penetrating oil/spray on these can help with getting them to come apart.**
    a. Using vise-grip type pliers, clamp onto lower half of bushing and rock it back and forth while pulling down. Using a pry bar between the two halves while doing this can help split them apart.
    b. Using two sets of vise-grip type pliers clamped to each bushing, twist the upper and lower halves until they come apart.
    c. Place an large adjustable wrench between the chasing and the driveshaft support, then hit the center of the lower bushing with a ½" extension or large punch a few times to split them apart.
    d. Any combination of these methods can work, but in NO case, should the driveshaft support housing be pried apart to remove the OEM bushings.

PERRIN Upper Bushing



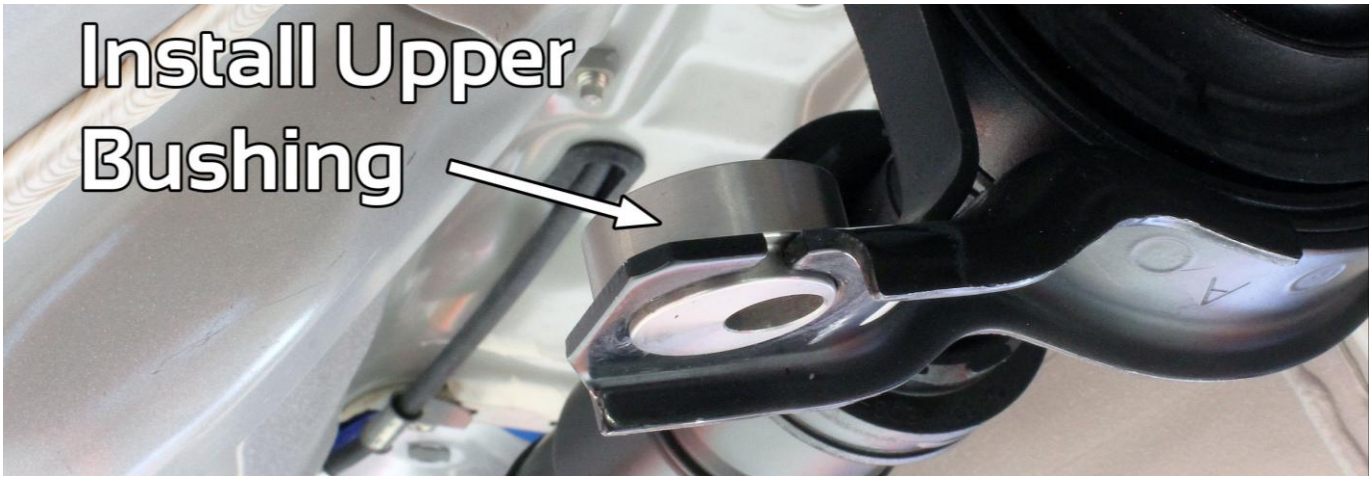
OEM Upper Bushing



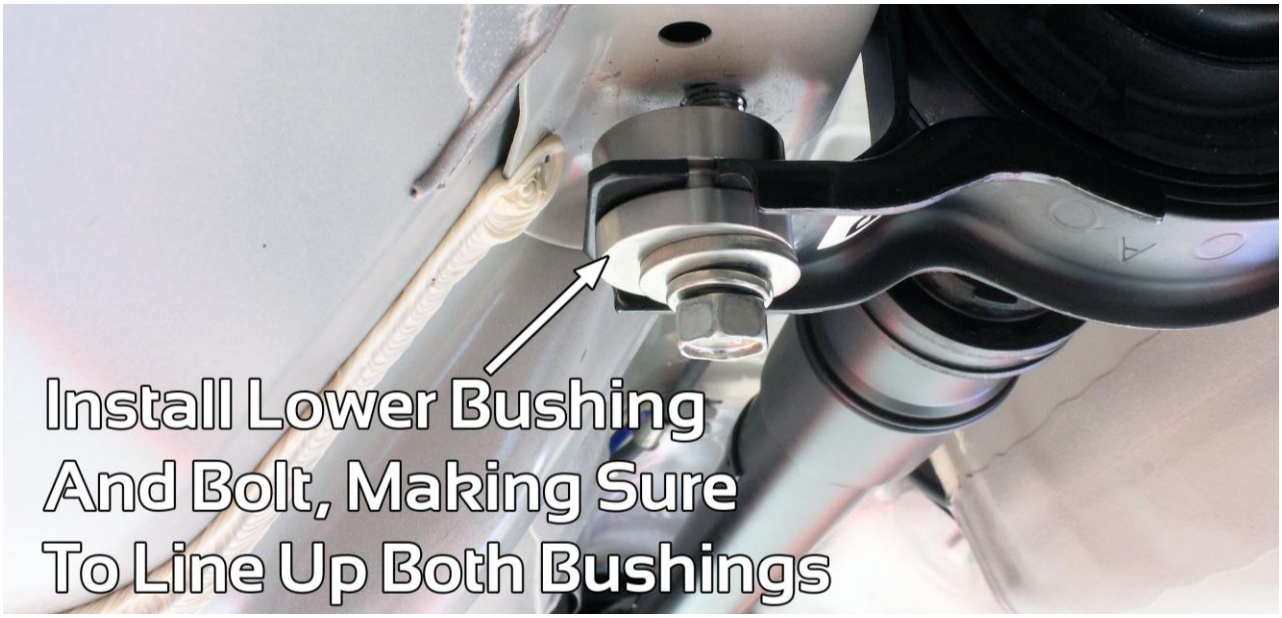
PERRIN Lower Bushing

OEM Lower Bushing

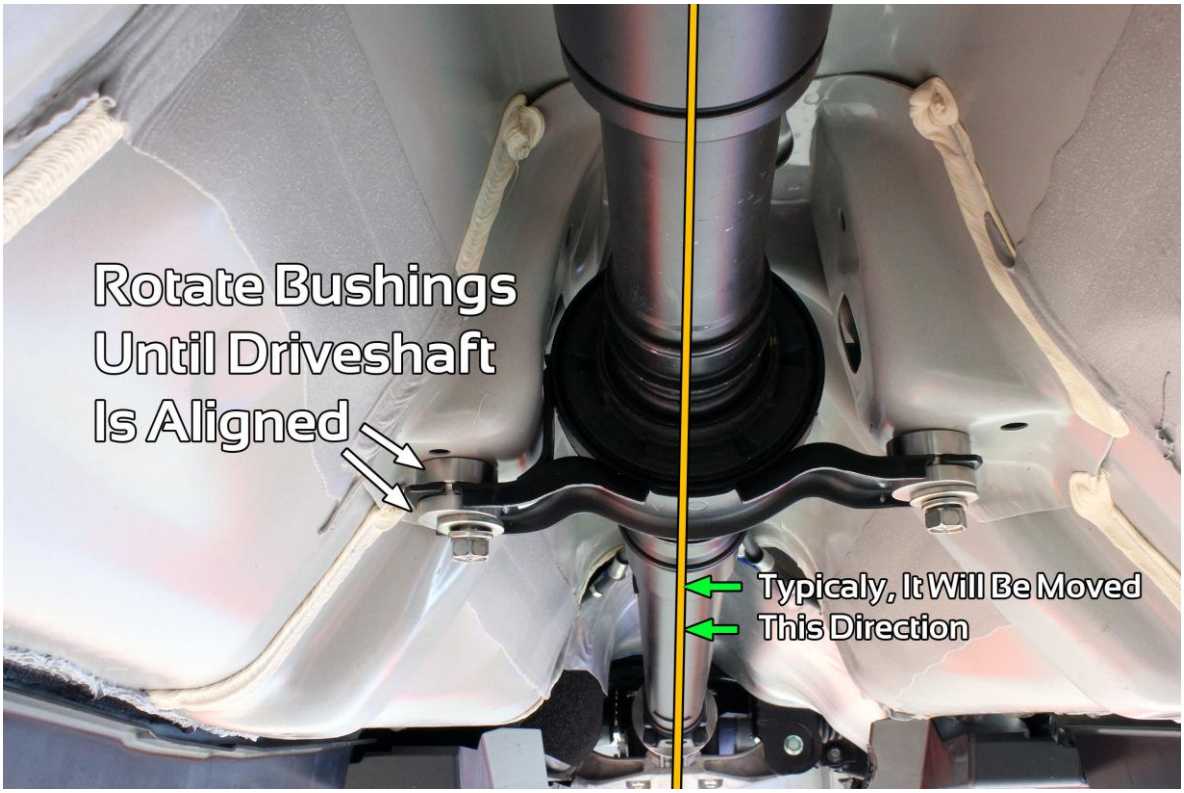
5. Install the upper bushing above the carrier bearing housing as shown below. **NOTE: If you are installing these on a BRZ/FR-S/86/GR86, install the upper bushing on the bottom and the bottom bushing on the top of the carrier bearing housing!!!**




6. Install the lower bushing and slide the bolt through it and thread it into the chassis just enough to hold the driveshaft in place. **NOTE: If you are installing these on a BRZ/FR-S/86/GR86, install the upper bushing on the bottom and the bottom bushing on the top of the carrier bearing housing!!!**
7. Repeat this process on the other side of the carrier bearing housing.




8. Hand tighten both M10 bolts and as they get closer to securing carrier bearing housing to chassis, make sure that the lower PERRIN Bushing is lined up with upper bushing while doing this step. Repeat this process on the other side of the car.
9. Back M10 bolts off about ½ of a turn, then align drive shaft to the desired position. This is done by rotating both sides of the upper and lower PERRIN bushings together at the same time on both sides. Since the bolt holes are offset, as they rotate around they are able to be move the driveshaft left to right. **NOTE: If you are having some trouble getting both left and right bushings to align, grab the driveshaft and give it a good wiggle back and forth a bit, while turning the bushings.**




10. With driveshaft aligned, tighten M10 bolts to 38 ft-lbs.
11. Reinstall exhaust heat shield and tighten M8 bolts to 8 ft-lbs.
12. Take car for test drive and verify there are no clunking noises or abnormal sounds. When installed properly, there should not be any extreme vibration felt. Re-check the installation and re-test.

**Questions, Comments and Suggestions Contact:** Tech@PERRIN.com
**Visit Our Website for Instant Chat Options at** www.PERRIN.com
**Call Our Tech Team at 503-693-1702**