Rear Shifter Bushing For Subaru

2025-08-12 PSP-INR-007

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

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 in vibration may be felt in shifter after installation, which in turn will give you much crisper shifting.
- Instructions are split between BRZ/FR-S/86/GR86 and all other models.

Parts Included with the PERRIN Rear Shifter Bushing:

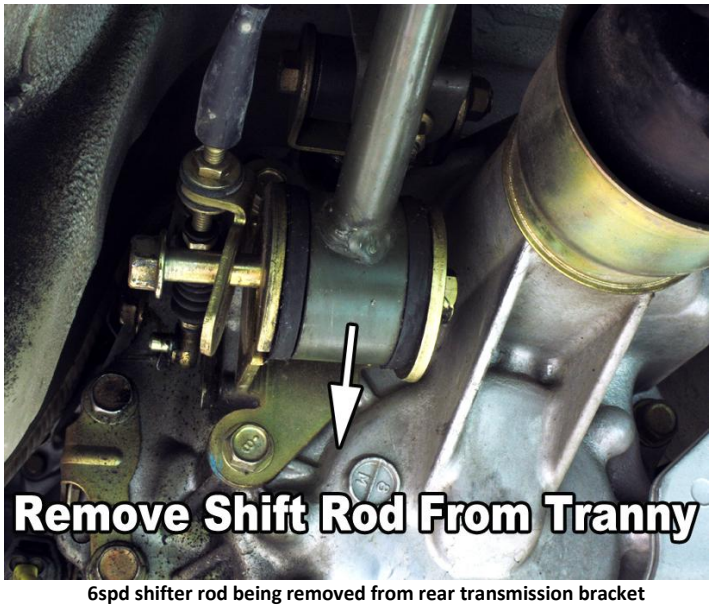
QTY	Part Number	Description
1	X-PSP-INR-005-2	Shifter Bushing for Rear Shift Rod w/PERRIN logo
2	X-PSP-INR-005-3	Spacer .467" x .325" x .740" for rear shifter bushing
2	X-BLT-M8X40CH10.9-ZFT	M8 X 40 Hex Head 10.9 Bolt
2	X-BLT-M8X25WF-Z	M8 Fender Washer
1	X-BLT-GRS-209	Grease for Polyurethane Bushings Packet

WRX/STI/Impreza/Forester/Legacy Rear Shifter Bushing Instructions:

1. Raise vehicle onto jack stands or use commercial vehicle hoist. **NOTE: NEVER WORK ON A VEHICLE SOLELY SUPPORTED BY A JACK!**
2. Locate lower shifter linkage on back of transmission. This linkage attaches to the transmission (where shifter bushings are) and to chassis (where rear shift rod bushing is).
3. For 5spd customers:
    a. Support transmission using jack. Remove bolts securing transmission braces to chassis. Use both 17mm, and 14mm sockets to remove bolts on outside of braces. Remove (2) 14mm nuts securing brace to transmission mount and remove brace from car. You do not need to completely remove this piece but its makes for easier installation.
    b. Lower transmission down roughly 3” to expose lower shifter bushing.
    c. Remove 12mm nut and flat washer from bushing bracket. Slide lower shift linkage and bushing off of bracket.
    d. Raise transmission back up into car temporarily. Skip to step 5.
4. For 6spd STI customers:
    a. Support transmission, using jack. Remove bolts securing transmission braces to chassis. Use both 17mm, and 14mm sockets to remove bolts on outside of braces. Remove (2) 14mm nuts securing brace to transmission mount and remove brace from car. Leave transmission up at this time.
    b. Loosen 14mm bolt until roughly .500” of bolt is exposed. Slide lower linkage out of bushing bracket.

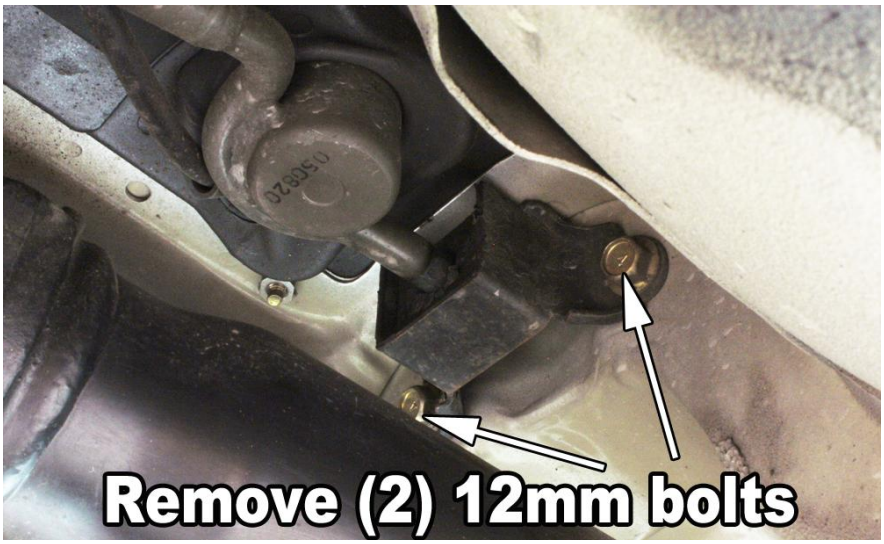


5spd shift rod being removed at transmission



6spd shifter rod being removed from rear transmission bracket

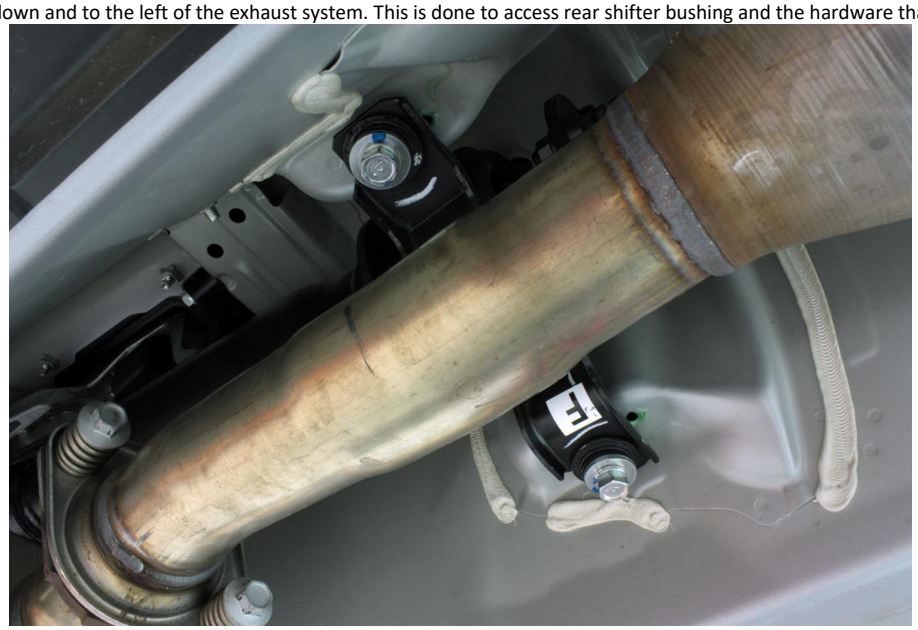
5. Once shift rod assembly is removed from transmission, spray a small amount of lube on the rear part of shift rod where it passes through rear bushing mount. This will aid in removing shift rod from rubber OEM bushing.
6. Remove (2) 12mm bolts securing OEM rear shifter bushing to chassis and pull bushing from shift rod. **NOTE: This step can be tricky, but pulling shift rod toward front of car and pushing it down should provide enough room. Take care not to pull shift rod from chassis boot as this requires taking apart inside of car to reinstall boot.**



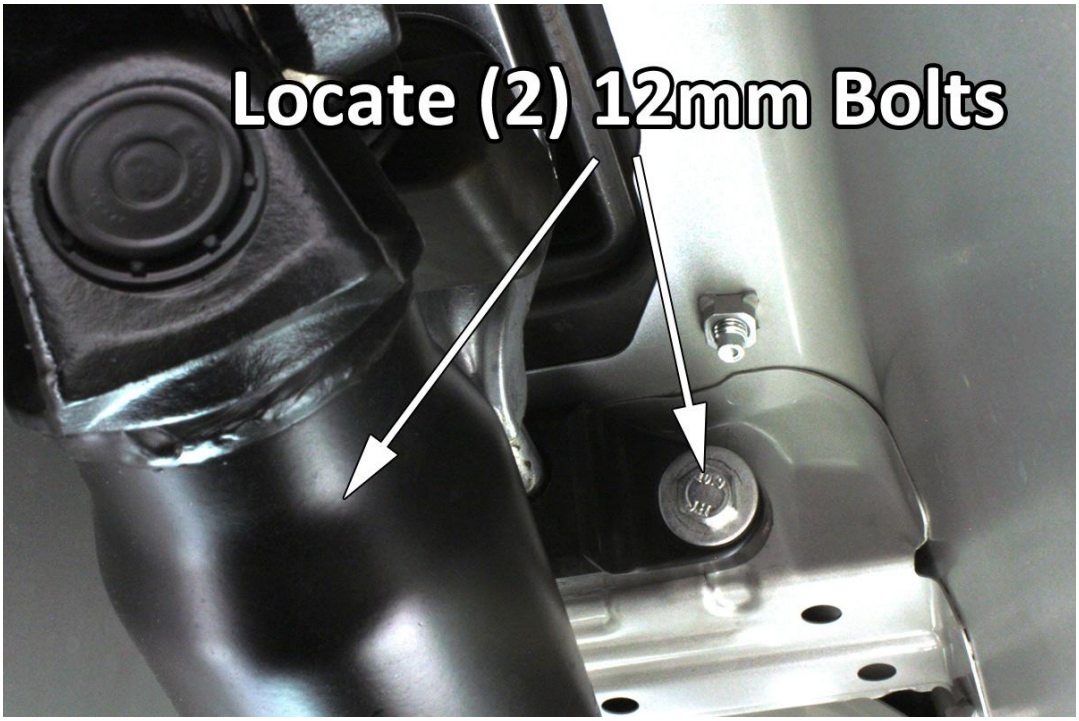
7. Clean off rear part of rod and apply supplied grease to end of rod. Apply grease to inside of PERRIN Rear Shifter Bushing. Slide PERRIN Rear Shift Bushing onto rod**. NOTE: This is a tight fit, some twisting and pulling will be needed.**
8. Since shifter bushing mounts at an angle on the shifter rod, make sure and rotate bushing until it mounts flat to the chassis.
9. Using supplied M8 bolts and fender washers, secure PERRIN Rear Shifter Bushing to chassis and tighten bolts to roughly 15ft-lbs.
10. Reinstall lower shifter linkage back onto transmission and retighten nut or bolt. During this step, raising or lowering the transmission can be helpful to get shifter rod to align to transmission mount. 6spd customers tighten bolt to 15ft-lbs, 5sp Customers tighten nut to 13ft-lbs. **NOTE: If you have a 6spd transmission and PERRIN Shifter Bushings, because there is no center sleeve on the bushings you can tighten bushing beyond 15ft-lbs to make bushing even stiffer. This can create an even more solid feel to shifting.**
11. Reinstall lower transmission brace and raise transmission with transmission supports back to chassis and tighten bolts. 17mm bolts, tighten to 103ft-lbs and 14mm bolts, tighten to 51ft-lbs.
12. Double check tightness of all hardware and connections, and double check for smooth shifter action.
13. Lower vehicle from jack stands and proceed to test drive car.

BRZ/FR-S/86/GR86 Rear Shift Rod Bushing Instructions:

1. Raise vehicle onto jack stands or use commercial vehicle hoist. **NOTE: NEVER WORK ON A VEHICLE SOLELY SUPPORTED BY A JACK!**
2. Place transmission into neutral.
3. As shown in picture below, locate driveshaft center carrier bearing and remove (2) 14mm bolts securing it to the chassis.
4. Pull driveshaft down and to the left of the exhaust system. This is done to access rear shifter bushing and the hardware that secures it to chassis.



5. Locate lower shifter linkage above driveshaft behind transmission. Follow this back to where the linkage mounts to the chassis and locate the OEM rear shifter bushing. Remove (2) 12mm bolts holding rear shifter bushing to chassis.



6. Drop shift rod down and slide off OEM bushing.
7. Clean off rear part of rod and apply supplied grease to end of rod. Apply grease to inside of PERRIN Rear Shifter Bushing. Slide PERRIN Rear Shifter Bushing onto rod, making sure PERRIN Logo is facing down toward ground**. NOTE: This is a tight fit, some twisting and pulling will be needed.**
8. Since shifter bushing mounts at an angle on the shifter rod, make sure and rotate bushing until it mounts flat to the chassis.
9. Using supplied M8 bolts and fender washers, secure PERRIN Rear Shifter Bushing to chassis and tighten bolts to roughly 15ft-lbs.
10. Reinstall (2) bolts securing driveshaft center bearing support to chassis. Tighten bolts to 38 ft-lbs.
11. Double check tightness of all hardware and connections, and double check for smooth shifter action.
12. Lower vehicle from jack stands and proceed to test drive car.

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