

PERRIN

PERFORMANCE

2013 BRZ /FR-S 19mm Front Sway Bar

2013-01-03

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@PERRINperformance.com

Instant Chat off the main page of www.PERRINperformance.com

Or simply call our tech team at 503-693-1702

SUSPENSION INSTALLATION NOTE

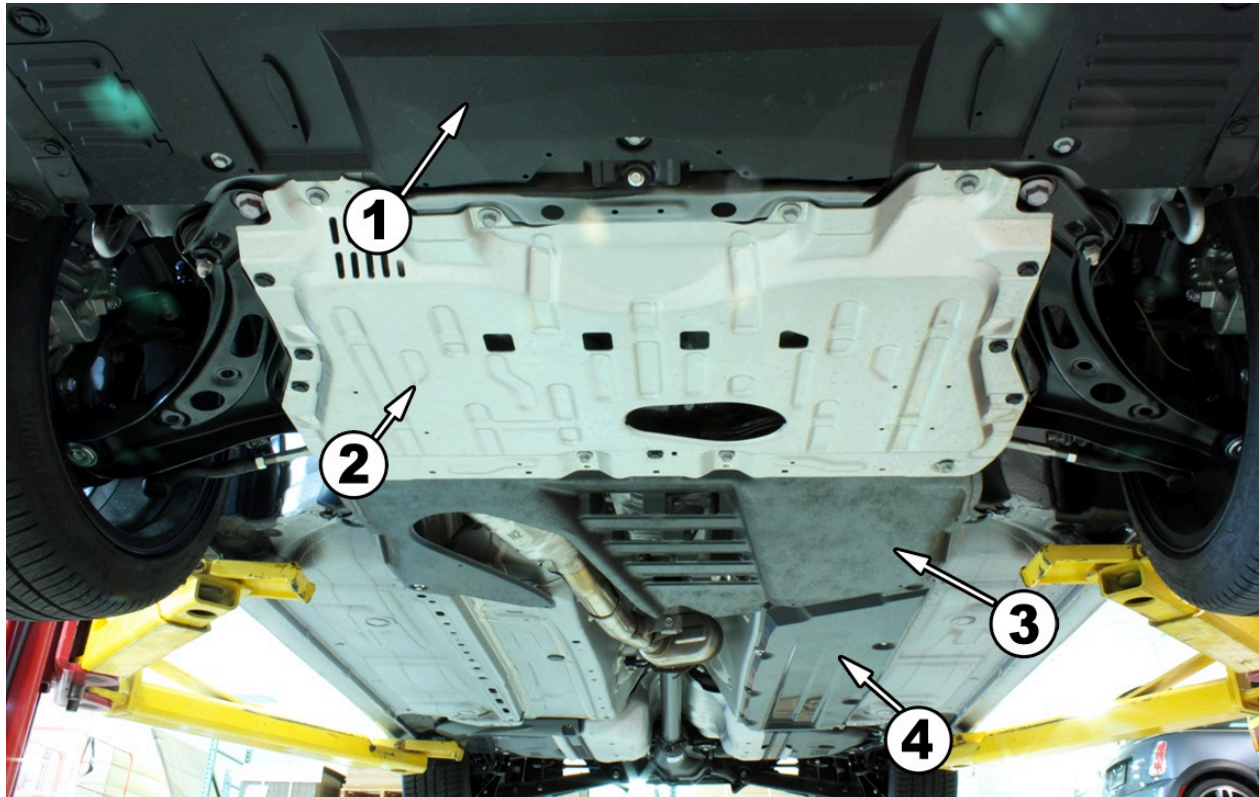
Installation of this product is a modification to the vehicle suspension. As a result, the vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this 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 your owner's manual, service manual, instructions accompanying this product, and local laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

SPECIAL NOTES:

- It is critical that all bolts and nuts are tightened, improper tightening can cause serious injury or death.
- Make sure to use supplied Energy Suspension grease with installation. Do not use regular grease as this doesn't last very long and can damage bushings over time.

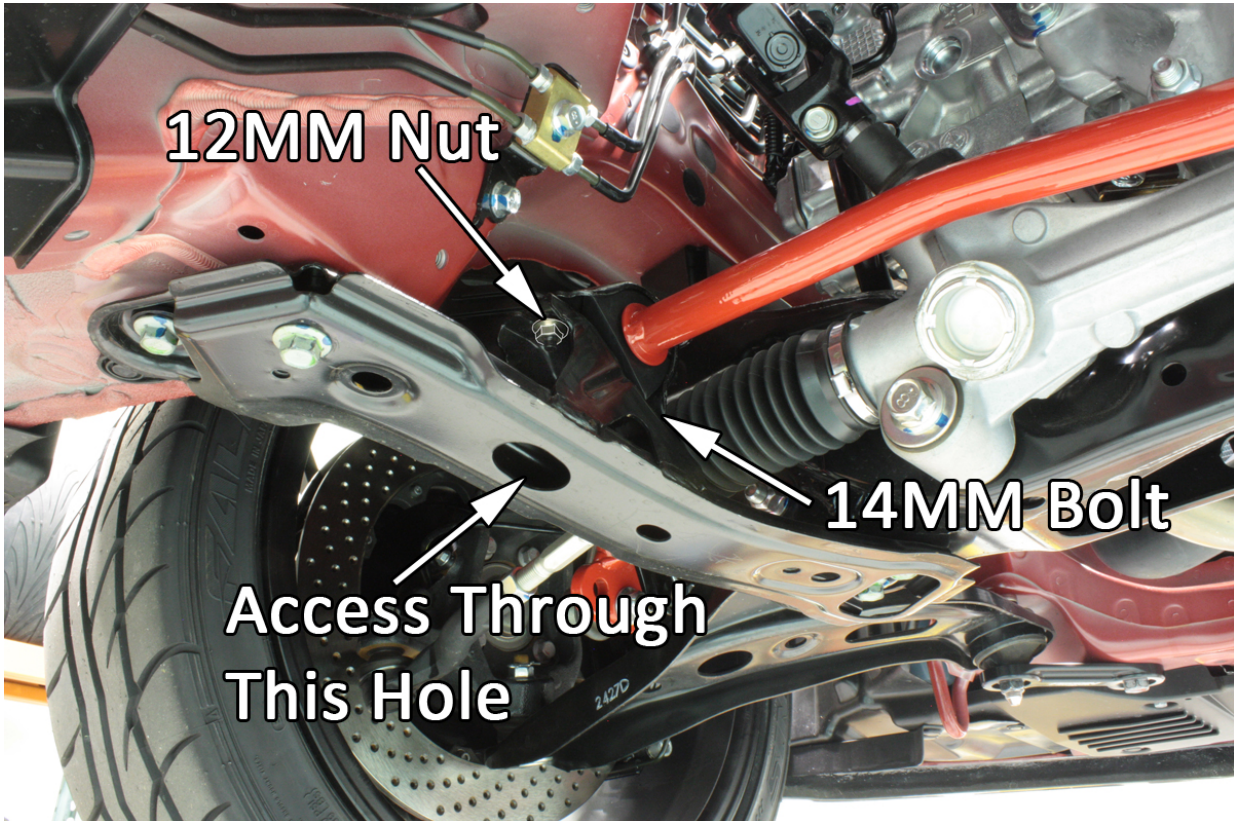
Parts Included with the PERRIN BRZ/FR-S Front Swaybar:

- (1) 19mm Front BRZ/FR-S Swaybar
- (2) 19mm Sway bar bushings
- (1) Energy Suspension Grease Packet



Installation of PERRIN Sway Bar:

1. Raise front wheels off the ground. The vehicle's weight must be supported by jack stands. Death or serious injury could result from an improperly supported vehicle.
2. Using the above diagram, remove lower fiberglass woven shield (#3 above). Locate and remove (11) 10mm bolts securing it to car.
3. Using the above diagram, remove lower aluminum splashguard (#2 above). Locate and remove (7) plastic pop-it fasteners, (8) 12mm bolts securing it to car.
4. Park car on a smooth level surface. Using suitable commercial vehicle hoist or floor jack, raise vehicle onto jack stands. **NEVER WORK UNDER A VEHICLE SOLELY SUPPORTED BY A JACK! DEATH OR INJURY MAY OCCUR.**
5. Remove nuts securing endlinks to OEM swaybar.
6. Locate swaybar bushing bracket and remove 12mm nut securing rear portion of bushing bracket to subframe. This can be accessed using a long extension going through hole on subframe as shown below.
7. Locate 14mm bolt holding front of swaybar bushing bracket to chassis. Loosen roughly 5 full turns to allow bracket to be slid out.



8. Remove swaybar bushing brackets from chassis.
9. Remove swaybar from chassis. This can be a little tricky but can easily be done by sliding the bar to the right, then dropping out one side, then sliding it left.
10. Generously grease PERRIN swaybar bushings using supplied grease and place bushings on bar toward outside of washer.
11. Install the PERRIN swaybar into car making sure that the ends of the bars bend down toward ground. **Note: Swaybar goes OVER steering linkage not under!**
12. Align bushing to chassis same as OEM bushings were aligned. Slide front portion of swaybar bushing brackets under 14mm bolt, then drop rear through hole and install 12mm nut.
13. Tighten 12mm nut to 15ft-lbs and tighten 14mm bolt to 30ft-lbs.



Percentage Increase in stiffness over OEM 18mm Swaybar

| | Setting #1 | Setting #2 |
|-------------|------------|------------|
| PERRIN 19mm | 25% | 72% |
| PERRIN 22mm | 130% | 218% |

14. Connect end links using stock hardware removed earlier and tighten nuts to 45ft-lbs.
15. End links can be bolted to either of the two mounting holes. The hole closest to the front of the car is the softest setting; the hole closest to the rear is the stiffest setting. NOTE: Stiffer settings will increase vehicles tendency to under steer but keep the car flatter in turns.
16. Reinstall engine splashguards removed earlier. Tighten 12mm bolts to 18ft-lbs.
17. Lower vehicle from jackstands or hoist, and proceed to test drive. If "squeaking" is noted in front of car, re-grease bushings.

NOTE: STIFFER SETTINGS WILL INCREASE VEHICLES TENDENCY TO UNDER STEER. THE HANDLING OF YOUR VEHICLE WILL BE AFFECTED DRAMATICALLY WITH THE INSTALLATION OF THIS SWAY BAR AND THE END LINK POSITION YOU CHOOSE. DRIVE VEHICLE CAUTIOUSLY UNTIL YOU BECOME FAMILIAR AND ACCUSTOMED TO THE NEW HANDLING CHARACTERISTICS OF YOUR VEHICLE!

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