

# PERRIN

## PERFORMANCE

### Transmission Mount Support for BRZ/FR-S

2013-03-28

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](mailto:Tech@PERRINperformance.com)

Instant Chat off the main page of [www.PERRINperformance.com](http://www.PERRINperformance.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.

#### SPECIAL NOTES:

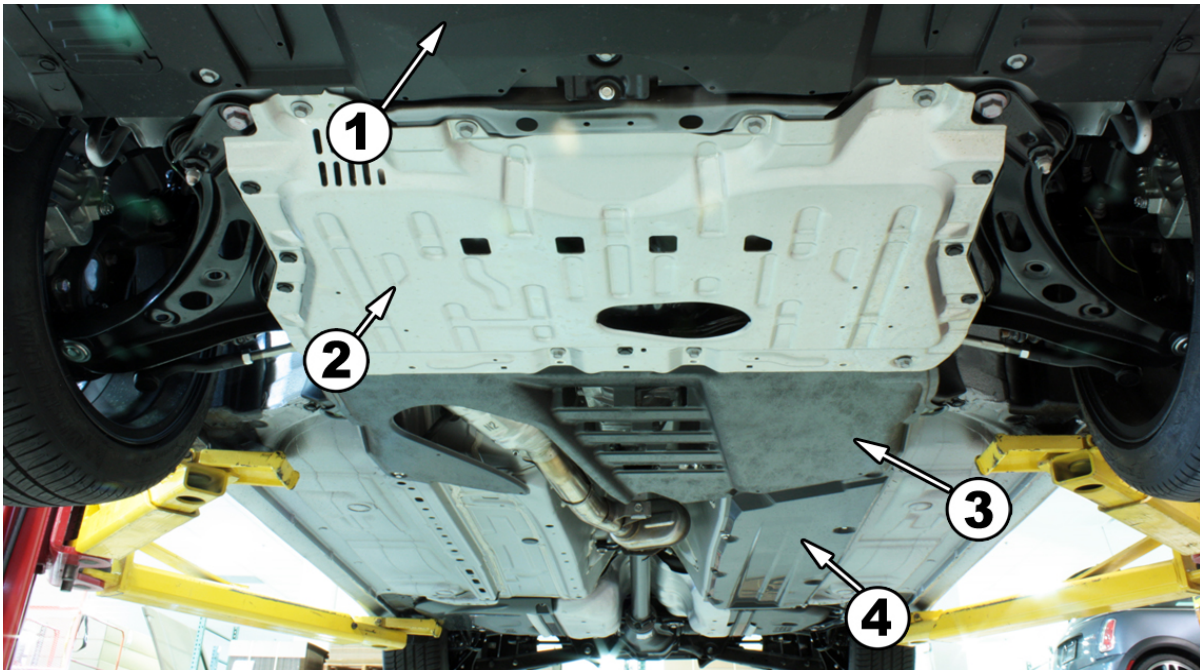
- The use of a factory service manual is highly recommended for installation. These can be purchased online at <http://techinfo.subaru.com>.
- Expect added NVH during all driving situations especially under high load in 1-2<sup>nd</sup> gear.
- Installation can be completed without a tranny jack or threaded jack stand, but it is recommended to help lift tranny up to chassis.

#### Included Parts with PERRIN Transmission Mount Support Kit:

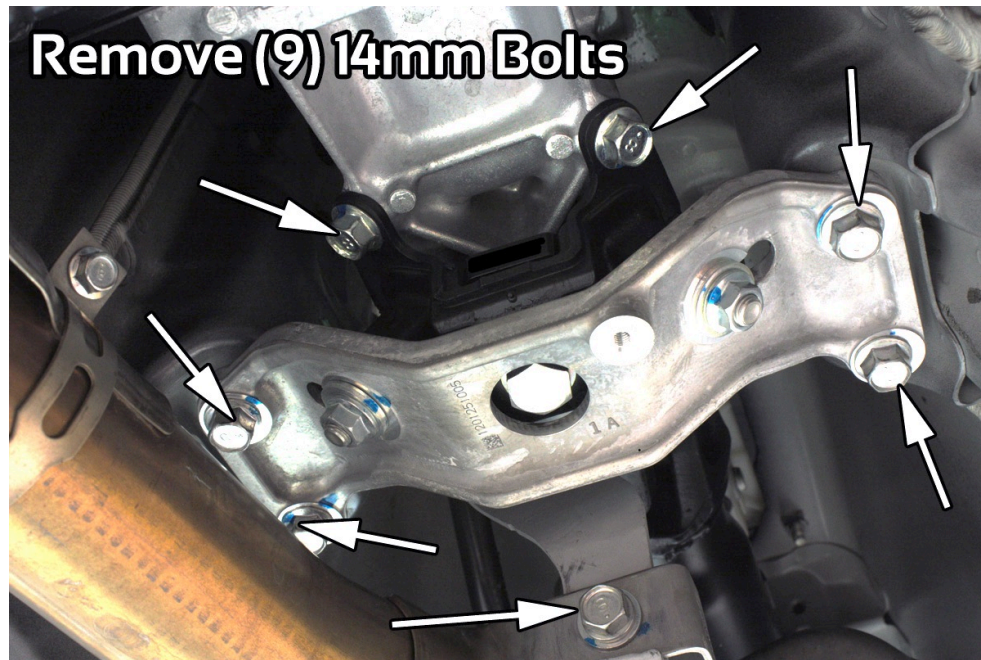
- (1) PERRIN Transmission Mount Stiffener
- (1) M12 x60mm Bolt
- (1) 7/16" Washer

#### Installation Instructions

1. Raise car off ground using professional hoist or jack and jack stands. NOTE: If installing on manual transmission, place gear into neutral.
2. Using the below diagram, remove lower fiberglass woven shield (#3 above). Locate and remove (11) 10mm bolts securing it to car.



3. Locate transmission cross member and place a jack or threaded jack stand under transmission and support.
4. Using below diagram, remove (9) 14mm bolts shown. **NOTE: Exhaust system will slightly interfere with one side of crossmember, which is why we recommend removing the 14mm bolt on the exhaust hanger. This allows you to move the exhaust system over slightly to help clear bolts. Having a universal joint type socket is also a good idea.**



5. Slowly lower transmission down using jack or threaded jack stand until it is free from car,
6. Remove transmission mount and crossmember from chassis.
7. With transmission mount out of car, remove 17mm nut securing center "T" shaped reinforcement bolt from center of mount.



8. Replace "T" shaped reinforcement bolt with PERRIN Tranny Mount Support. Install supplied M10 bolt to mount and tighten to 60ft-lbs.
9. Place jack or threaded jack stand under tranny and raise tranny up to chassis.
10. Reinstall tranny mount and crossmember back to chassis using bolts removed earlier. Tighten all 14mm bolts to 35ft-lbs. **NOTE: Don't forget to reinstall 14mm bolt holding exhaust to hanger.**





11. Lower jack or threaded jackstand from tranny and remove from car.
12. Reinstall fiber type splash shield back to car using 10mm bolts removed earlier.
13. Lower car from jack stands and take car for test drive.
14. Listen for clunking sounds, or clicking type sounds. If you find any of these sounds, recheck all hardware for tightness. If no sounds are found, installation complete! **NOTE: It is normal to here whining type sound under heavy load in 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> gears.**

Questions, Comments and Suggestions Contact: [Tech@PERRINperformance.com](mailto:Tech@PERRINperformance.com)  
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Call Our Tech Team at 503-693-1702