

# PERRIN

## Strut Brace for 2008-21 WRX/STI & 2005-2009 Legacy

2021-07-29

PSP-SUS-056

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](mailto:Tech@PERRIN.com)

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

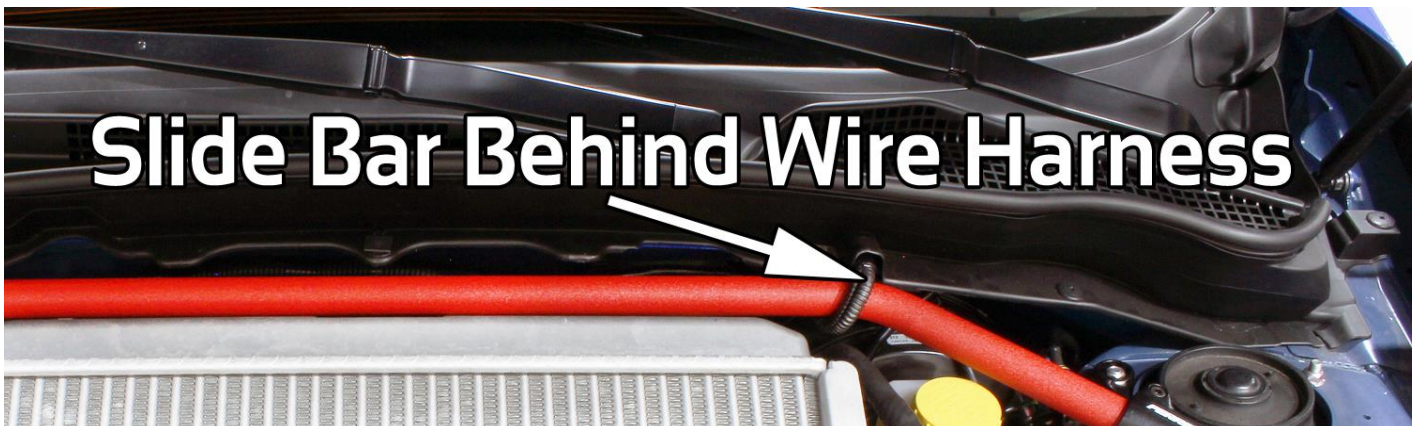
- Leave vehicle on the ground during installation.
- Bar may be tight fitting if car has been in an accident. Take extra time aligning each side before final tightening.
- Legacy owners take note of trimming of plastic shroud below. This can be done easily with a dremmel or die grind type tool.

### Parts Included with the PERRIN Front Strut Bar:

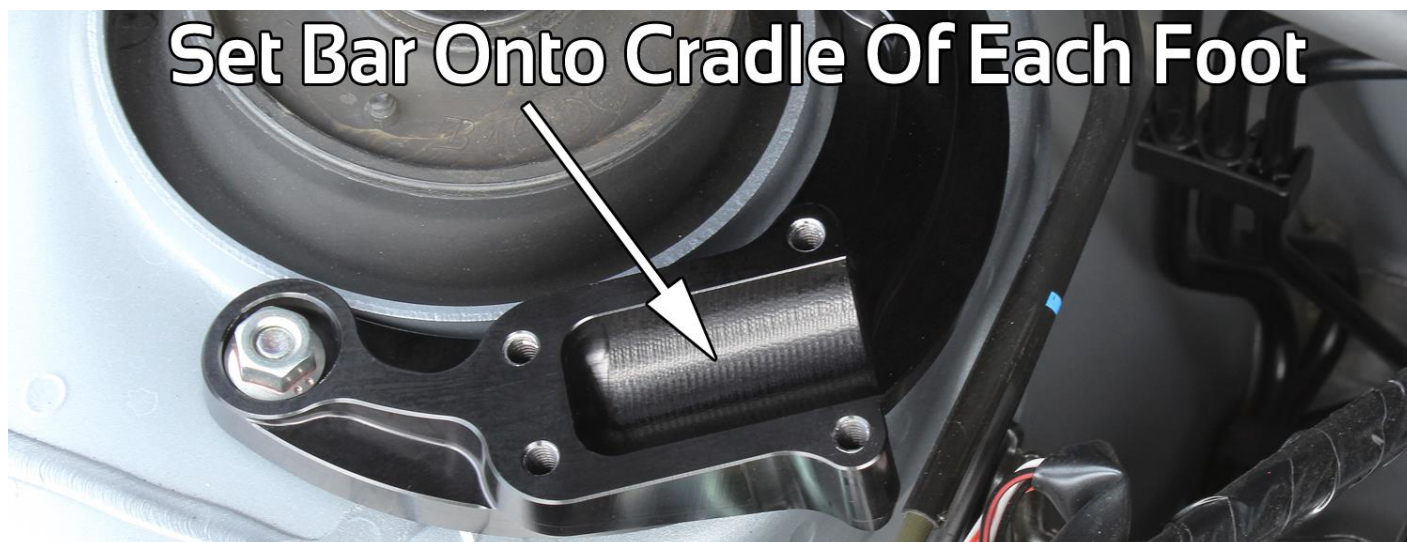
- (1) Pair of Left and Right feet
- (2) Strut Foot Caps
- (1) Crossbar
- (8) M6x14 Button Head Cap Screw
- (1) M4 Hex Wrench
- (4) Zip Ties
- (4") 1/2" Hose

### Strut Bar Instructions:

- 1) Remove (6) OEM strut top nuts using a 12mm socket.
- 2) Set both strut bar feet onto strut tops and install OEM nuts removed, leaving 1-2 turns loose.
- 3) Install bar onto feet:
  - For 2005-2009 Legacy customers, remove plastic intercooler shroud from engine (4 plastic fasteners at the corners), then set bar onto feet.
  - For 2008-2014 vehicles, feed strut bar behind wire harness as shown below, then set bar onto feet.
  - For 2015 STI models, slide bar behind intercooler, and under plastic tray and set bar onto feet.



- 4) Line up bar on feet so there is roughly the same amount resting in each foot. **NOTE: Some misalignment may be noticed during this step, this is normal and to be expected. The bars are not designed to bottom out on the inside of the foot, so expect there to be a gap from the end of the bar to the inside of the foot.**



- 5) Set supplied strut bar caps onto each foot and install supplied hardware but leave loose until both sides are done. Finger tighten each bolt so that the cap evenly sits on foot.
- 6) Tighten (6) nuts on strut tops to 14ft-lbs. **Note: Having a thin wall socket or smaller 1/4" drive socket will aid in tightening down nuts holding strut feet to chassis.**



- 7) Starting with the inner, working toward the outer bolts on each foot, hand tighten them making sure there is an even gap all the way around. Using proper 1/4" drive or 3/8" torque wrench, tighten all (8) M6 socket cap screws to 5ft-lbs, then to 10ft-lbs or 96 to 120in-lbs. **DO NOT OVER TIGHTEN!! Using supplied M4 short arm wrench to hand tighten is also acceptable, just make sure to tighten then down evenly.**
- 8) If bar appears to be slightly misaligned to engine, simply loosen the (8) M6 bolts and adjust bar by sliding in and out of each foot, then retighten hardware.



9) After Installation Notes:

- For 2005-2009 Legacy GT customers, trim roughly 1" from the rear section of the plastic engine cover. Test fit plastic cover to ensure it does not hit on strut bar. If further clearance is needed, continue trimming. Reinstall plastic cover using (4) plastic fasteners removed earlier.
- For 2015+ STI Customers, cut supplied hose down the middle and place over fuel line that runs next to strut bar foot. Use supplied zip ties to secure to fuel line.



- For 2015+ WRX customers, take note of clearance of wire harness on right side strut tower. If bar is resting on harness, slightly bending bracket away from strut tower will add clearance. Alternatively you can unclip the harness from the bracket and zip-tie it to harness located just below. These parts do not move independent of each other, so any amount of clearance is acceptable.



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