

PERRIN

BRZ/FR-S/86/GR86 Cam Solenoid Guard Kit

2024-11-06

PSP-ENG-173

Thank you for purchasing this PERRIN product for your car! Installation of this product should only be performed by persons experienced with installation of after market 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

Parts Included with PERRIN Cam Solenoid Guards:

- | | | |
|-----|------------------|---|
| (2) | X-PSP-ENG-170-1 | Cam Solenoid Guards for FA/FB Engines |
| (2) | X-PSP-ENG-170-2 | Cam Solenoid Guards w/ Upside Down PERRIN |
| (8) | X-BLT-M6X16CS-SS | M6 X 16 Socket Cap Screw SS |

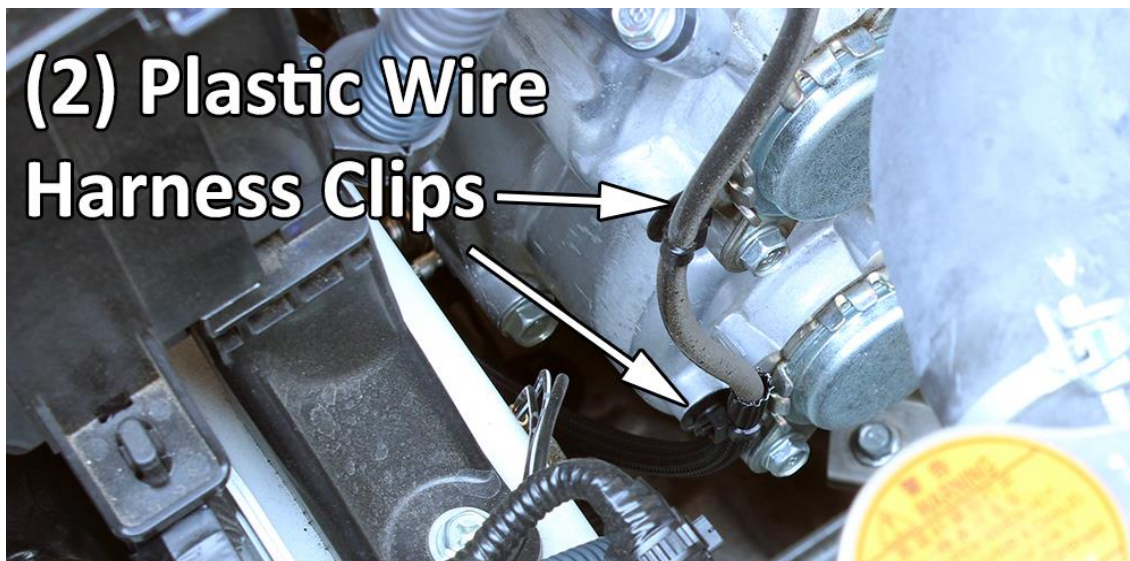
WHICH WAY IS THE RIGHT WAY?

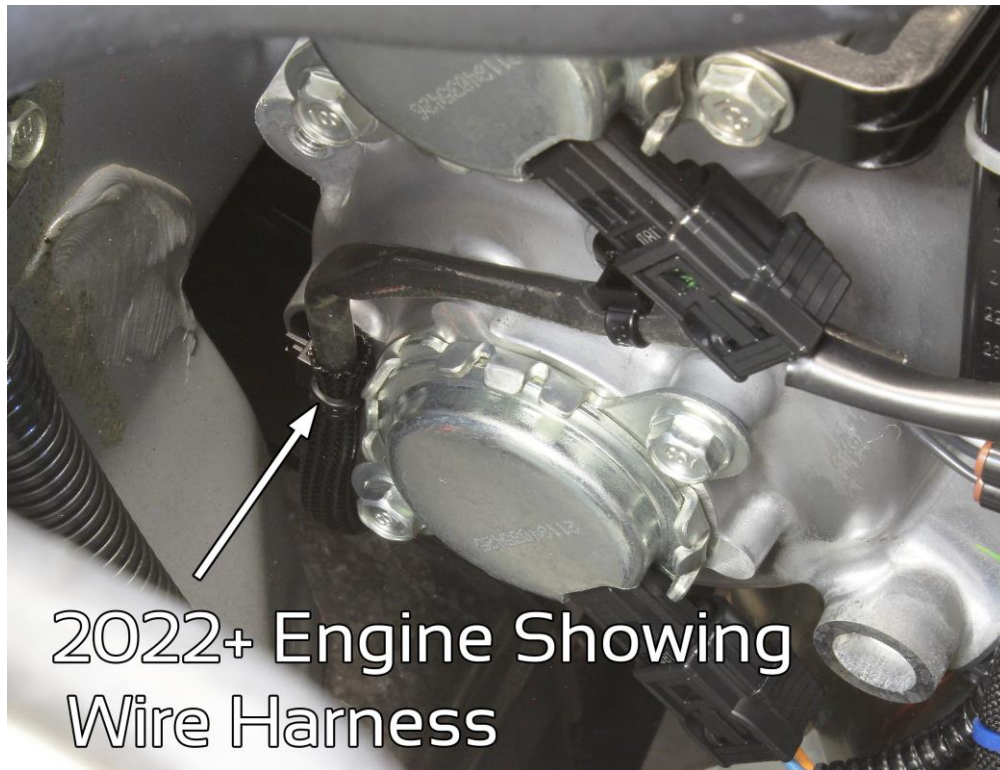
In ALL situations, when describing left and right sides of the vehicle it is always as though you are sitting in the driver's seat looking forward.

Example of a US Market Vehicle: If standing in front of the car, looking at the engine bay, the Drivers side is described as the LEFT side the vehicle.

INSTALLATION

1. Locate all (4) cam solenoids (AVCS Solenoids) and remove all (8) M6 bolts securing them to engine.
2. Install PERRIN Cam Solenoid Guards on right side of engine bay using supplied hardware. Tighten bolts to 15ft-lbs.
 - a. For 2013-2020 models, locate wire harness as shown in picture below, and remove plastic clips from engine (pushed into threaded holes) holding wire harnesses. Trim off excess plastic ties hanging off. **NOTE:** This step may not be necessary on some cars as the "tail" hanging off may not be long enough to interfere.





- b. For 2022+ models, locate wire harness as shown in picture above, on lower section and while installing guards, make sure there is nothing between the engine and guards.
 - c. **These steps are important to ensure nothing is between engine and Cam Guards.**
3. Install PERRIN Cam Solenoid Guards on left side of engine bay using supplied hardware. Tighten bolts to 15ft-lbs.
- a. For 2013-2020 models, locate wire harness as shown in picture below, and remove plastic clip from engine (pushed into threaded holes) holding wire harness. Trim off excess plastic tie hanging off. **NOTE: This step may not be necessary on some cars as the "tail" hanging off may not be long enough to interfere.**





- b. For 2022+ models, locate coolant pipe as shown above and remove (2) M8 bolts securing it to the engine. Pull away from the engine and install PERRIN Cam Solenoid Guards under them. After they are installed, reinstall M8 bolts securing coolant pipe to engine.
- c. **These steps are important to ensure nothing is between engine and Cam Guards.**
- 4. Reinstall plastic clips back into the holes they were installed in. If extra plastic wasn't trimmed off enough, they may be slightly hard to install, and additional trimming may be needed.

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