

# PERRIN

## 2022+ BRZ/GR86 Cold Air Intake

2022-08-16

PSP-INT-335

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



**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](http://www.P65Warnings.ca.gov)

### 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.

### Vehicle Fitment Chart:

- 2022 Subaru BRZ
- 2022 Toyota GR86

### SPECIAL NOTES:

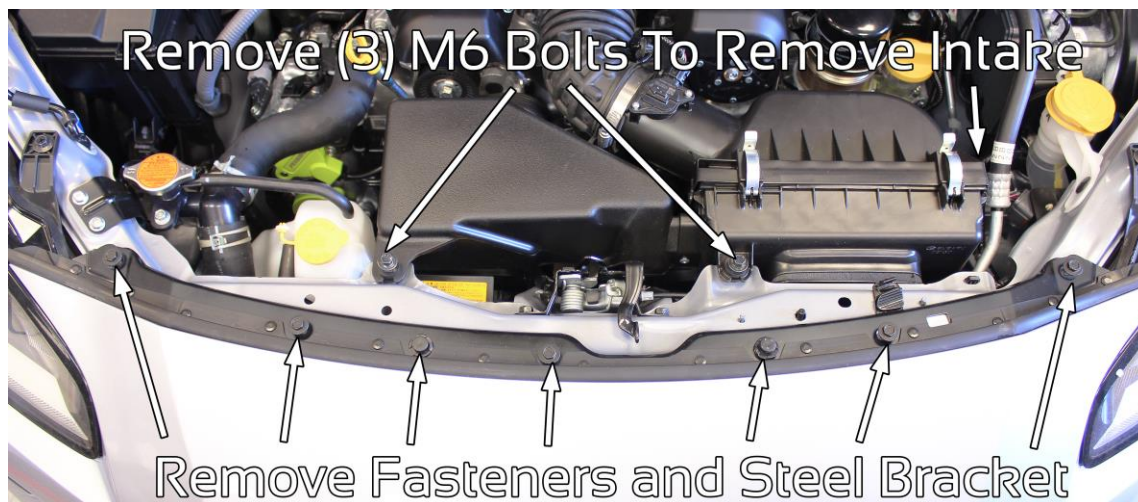
- The service interval for your filter is 10,000 miles or every year. Because the filter is located in a protected area, you may find longer intervals are ok. Removal of bumper is necessary for cleaning the filter.
- Do not remove intake air diverter, this is vital to the proper operation of the PERRIN Cold Air Intake system!
- Mop up any extra oil found on outside of filter before installing. While a rare problem, this helps reduce any potential for contamination of MAF sensor from oil getting onto it.

### Parts Included with the PERRIN Cold Air Intake System:

(1) Intake Tube	X-PSP-INT-335
(1) 3.0" ID Filter	X-PSP-INT-332
(2) Diverter Brackets	X-PSP-INT-334
(2) M4x10 Philip Pan Screws	X-BLT-M4X0.7X10
(1) M6 Flat Washers	X-BLT-M6WF-SS
(1) M6 Fender Washers	X-BLT-M618WF-SS
(1) M6x20 Hex Bolt	X-BLT-M6X20CH10.9-Z

### 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.

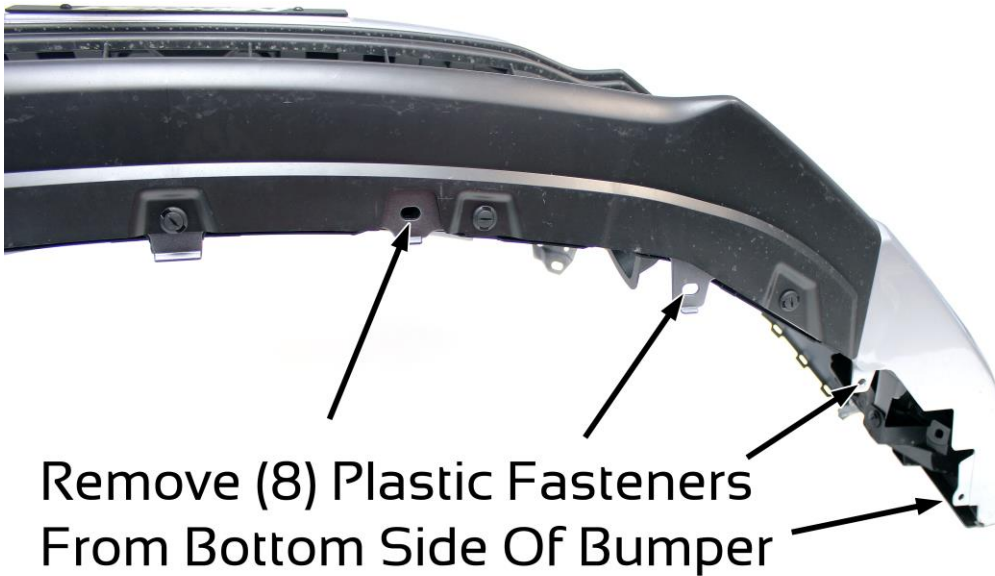


### Installation

1. Raise front of vehicle off ground using proper jack and jack stands. Never work under a car solely supported by jack, death or injury may occur.
2. Remove front bumper skin from vehicle
  - a. Open hood and locate black steel hood seal/bracket. Remove (2) plastic fasteners and (5) 10mm bolts. Remove bracket from car.
  - b. Starting in each fender well, locate and remove (4) plastic fasteners holding fender liner to bumper skin



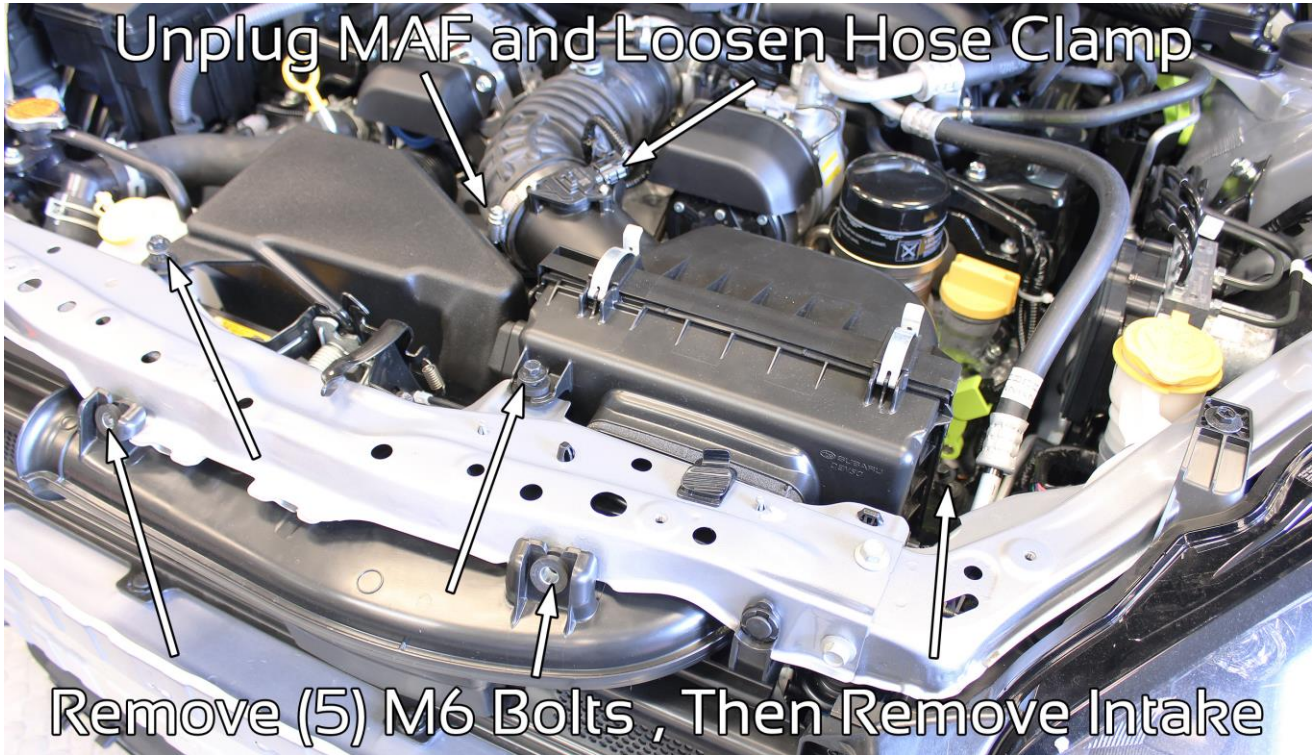
- c. Under car, locate and remove and (8) plastic fasteners holding lower portion of bumper skin to car.



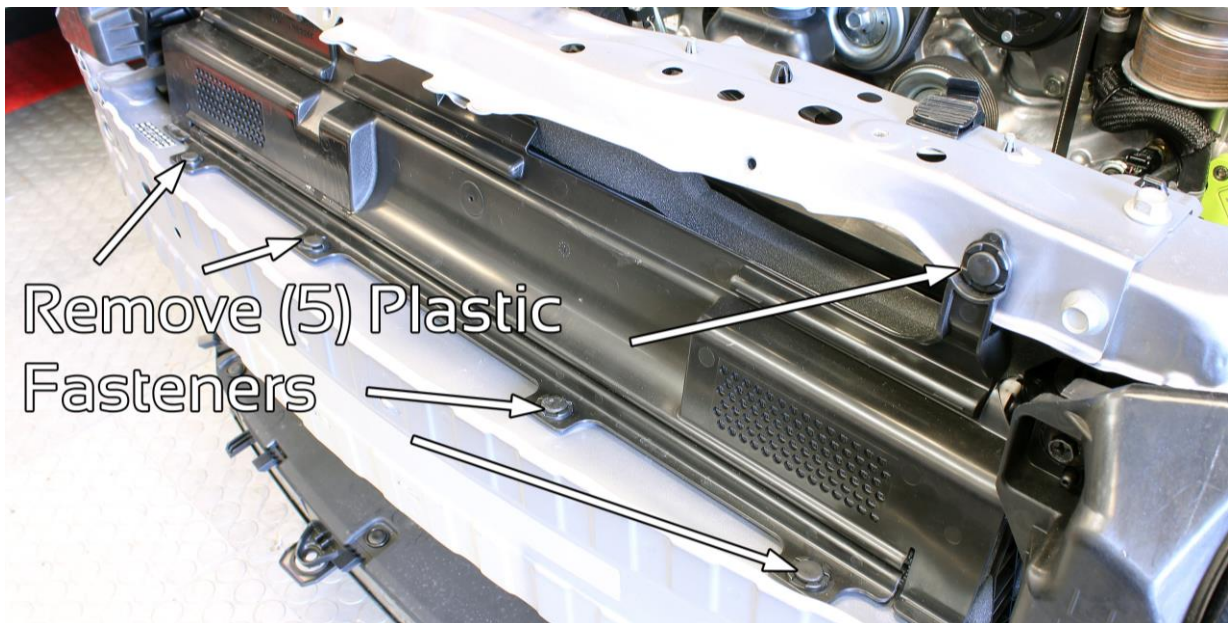
- d. Starting at corners next to side marker lights, pull bumper straight and away from car to unsnap from chassis. Do this to one side then the other before proceeding to next step.



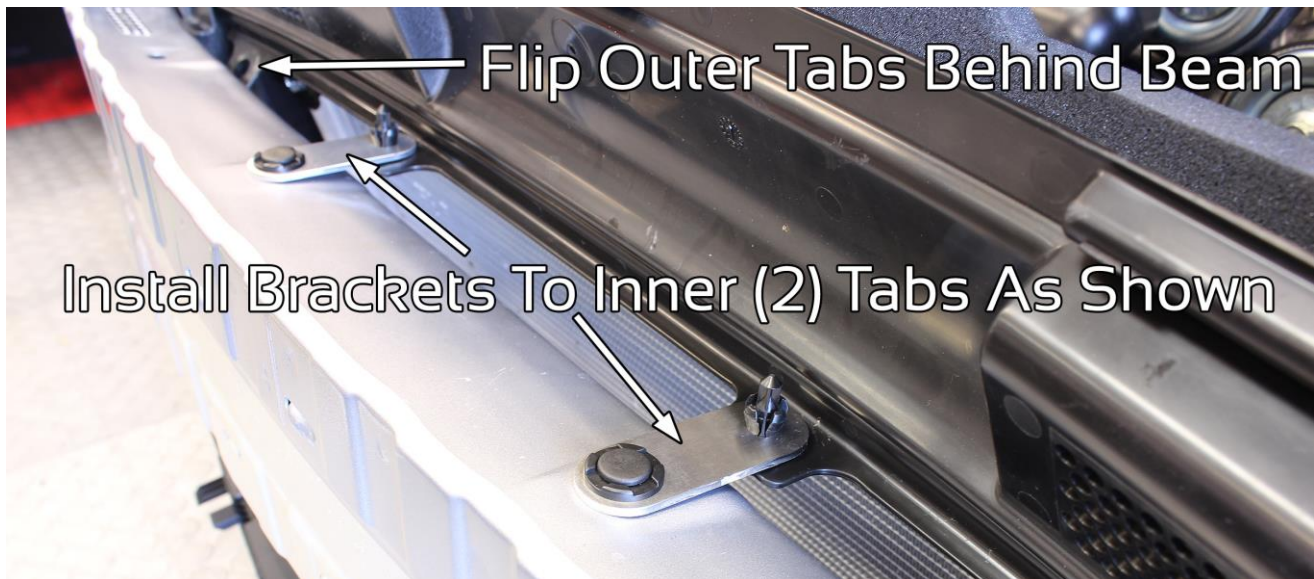
- e. Continue with unsnapping bumper from chassis working from each side marker light toward front of car. During this step the bumper will become fully dislodged from chassis so be prepared to catch. **NOTE: Having a friend help with this step is a good idea to help prevent bumper from hitting the ground.**
  - f. Reach behind bumper and disconnect both left and right side marker light harnesses.
3. Locate and remove (2) small screws securing MAF sensor to air box and remove MAF sensor. Unclip wire harness from air box.
  4. Locate and remove (2) M6 bolts holding fresh air tube to chassis, and remove from car.
  5. Locate and remove (3) M6 bolts holding air box to chassis. Loosen hose clamp at air box and remove OEM intake box from car.



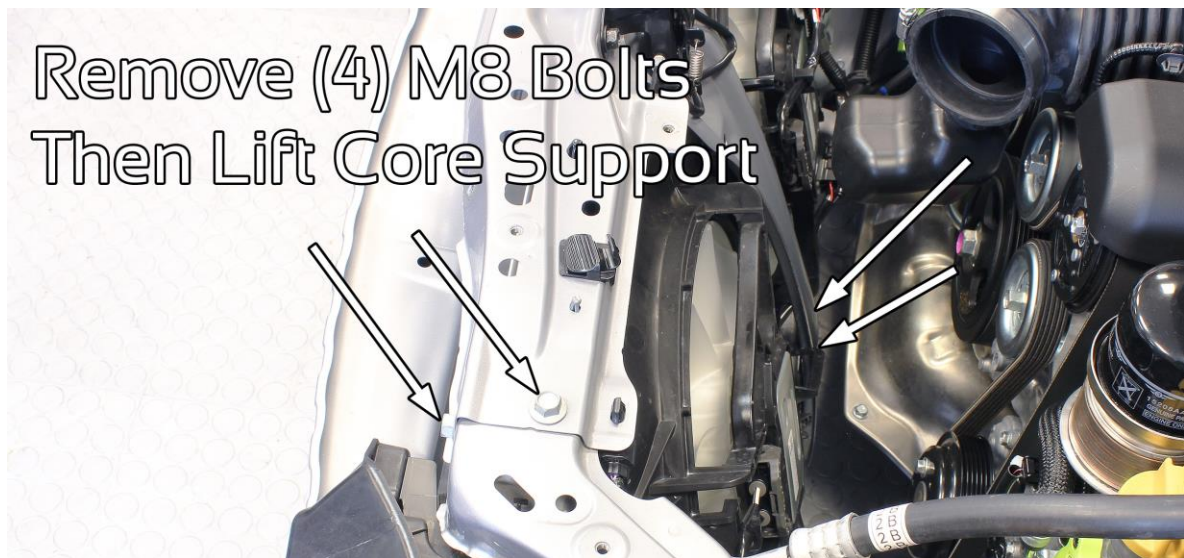
6. Remove (5) plastic fasteners holding intake air diverter to bumper beam and radiator support.



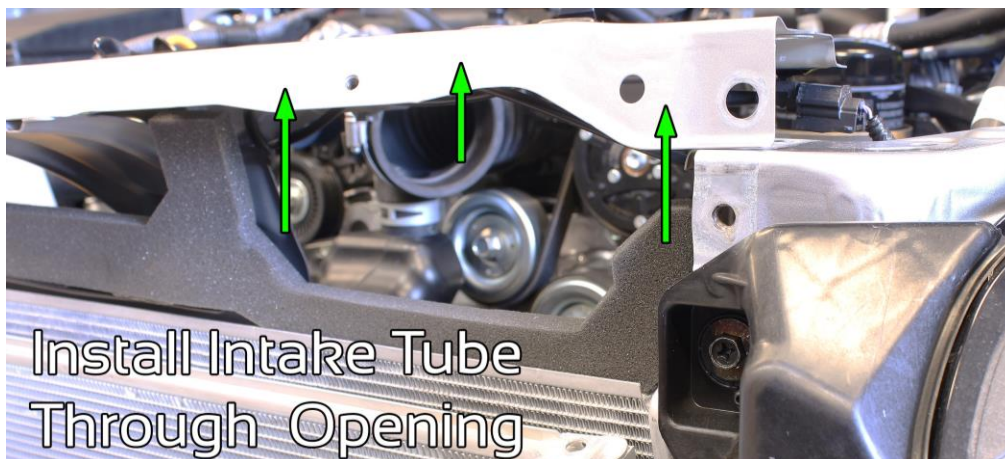
7. Fold (2) outer tabs of plastic air diverter behind bumper beam.
8. Using supplied brackets and remaining (4) plastic fasteners removed in earlier step, secure inner (2) mounting holes of air intake air diverter to bumper beam as shown. **NOTE: Take notice that fasteners on air diverter are installed upside down on purpose.**



9. Locate then remove (4) M8 bolts holding radiator support to chassis. This step is done to allow PERRIN Intake tube to fit under radiator support in next step.



10. Lift up on left side of radiator support (leaving plastic intake air diverter in place) and place PERRIN intake tube under support as shown below. Make sure the tab on PERRIN intake is in front of radiator support and closely lines up to threaded M6 hole shown below. Carefully set radiator support back down and reinstall and tighten (4) 12mm bolts removed earlier.



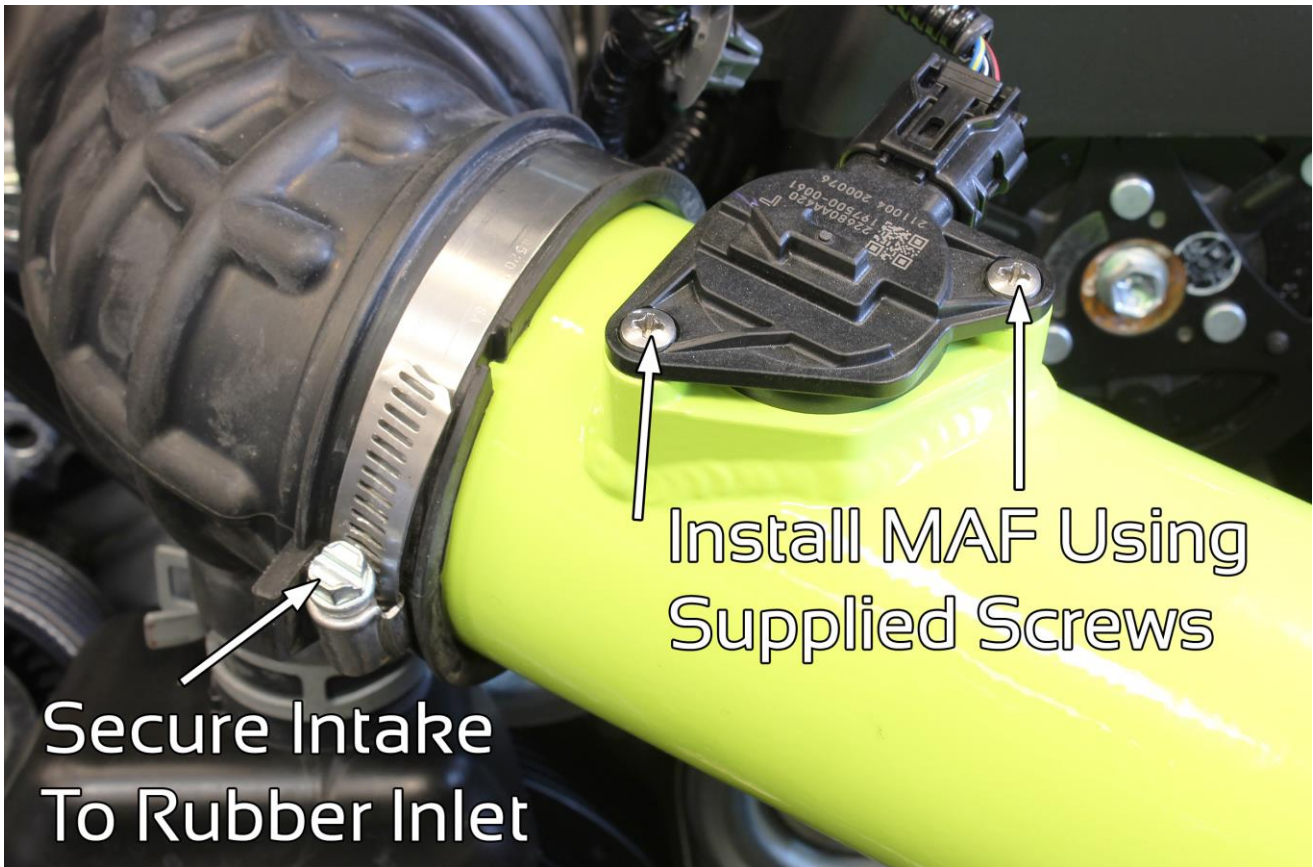
11. Using supplied M6 hardware, install M6 flat washer, then M6 fender washer to M6 bolt. Install this through bracket on PERRIN intake tube and into threaded hole on chassis. Leave loose at this time. **NOTE: Reference last install picture for more info.**



12. Using plastic fastener removed in earlier step, secure upper intake air diverter to radiator support. **NOTE: The intake tube will touch the plastic diverter some amount regardless of how it is adjusted. This is normal and will not cause any issues.**
13. Loosen hose clamp securing rubber intake hose to throttle body and rotate hose so it lines up with the angle of the PERRIN intake tube. Slide rubber intake hose over PERRIN intake tube and secure using supplied hose clamp. Tighten hose clamp at throttle body.
14. Install supplied PERRIN Air Filter to end of PERRIN Intake Tube and tighten hose clamp to secure.
  - a. **NOTE 1: It's important to wipe off excess oil found on inside of filter where it clamps to intake system. Failure to remove oil could result in filter falling off intake tube.**
  - b. **NOTE 2: Over tightening the clamps can cut the rubber filter base, only tighten with a screwdriver or nut driver until filter is snug DO NOT overtighten outer filter "sock" clamp. This will cut the filter!**
15. Align intake tube as shown below and tighten M6 bolt and washer holding intake bracket to radiator support. **NOTE: You may end up realigning rubber intake tube with throttle body after this step is complete. This is completely normal and to be expected.**



16. Install MAF sensor to PERRIN intake tube with supplied M4 screws. Threaded holes in flange are designed to accurately line up MAF sensor and will be tight to holes in flange. Make sure and leave both screws loose when installing. **NOTE: Using a small amount of grease on MAF sensor o-ring can aid in installation.**



17. Check clearance of MAF sensor harness with pulley. These should naturally rest in a position that is more than .500" away from any moving parts.
18. Start car and make sure engine runs smoothly and has no check engine lights. If engine runs ok, proceed with next step. If engine runs rough, or misfires, check MAF sensor connection and check for any vacuum leaks.
19. Re-install bumper back to car following previous steps in reverse order.
20. Start car and take for a test drive. If car runs normal, installation is complete. If car isn't running as before, check for vacuum leaks and or electrical connections that may have been missed.

**FOR QUESTIONS & COMMENTS PLEASE CONTACT**

**[TECH@PERRIN.COM](mailto:TECH@PERRIN.COM)**

**503-693-1702**

**Live Chat with us on our website**