

PERRIN

TGV Delete For 2015+ WRX

2018-07-11

PSP-ENG-221

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. Always use appropriate personal protection equipment such as gloves, eye and hearing protection for installation of this product. 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



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

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:

- Installation of this part, using methods described below, requires the use of a prybar. This allows the installation to take less than an hour of time. If a prybar is not available, expect installation to take 2-3 hours and the removal many more parts than described below.
- This part requires professional ECU re-calibration to function properly.

Included Parts with PERRIN TGV Delete:

- (1) Left TGV Delete Housing
- (1) Right TGV Delete Housing

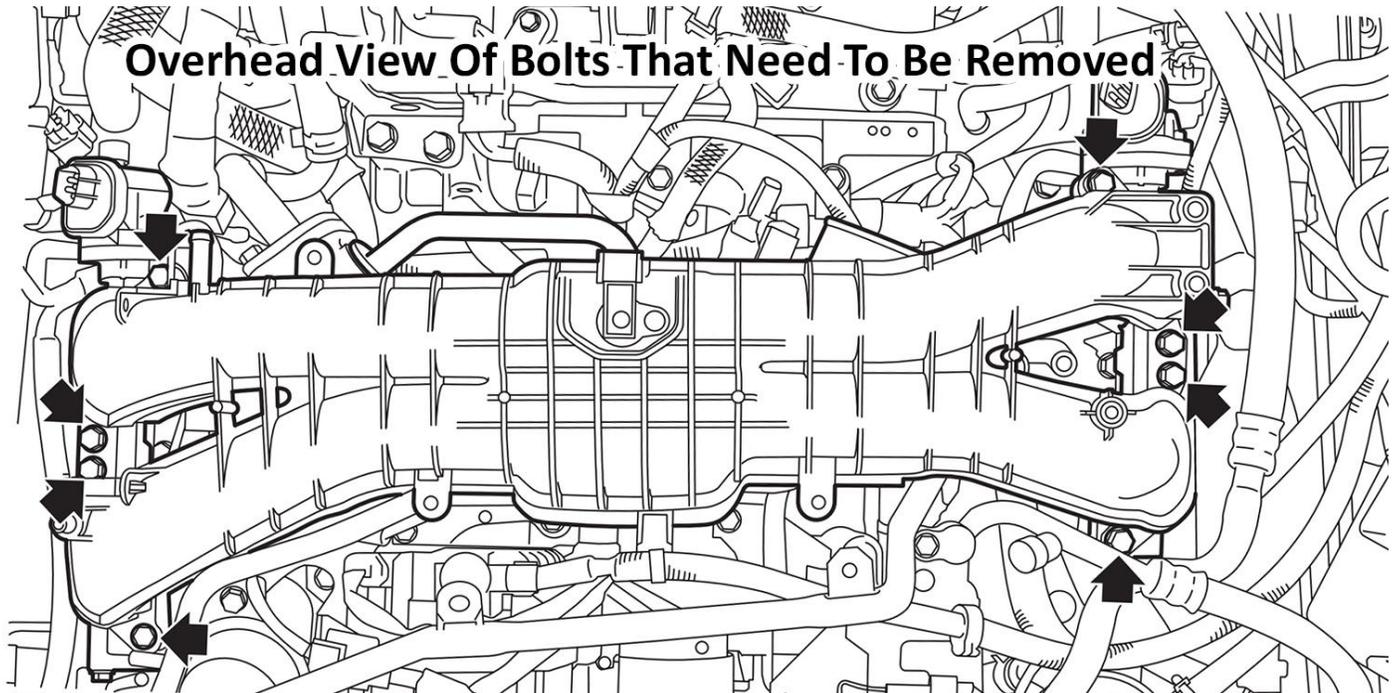


Installation Instructions

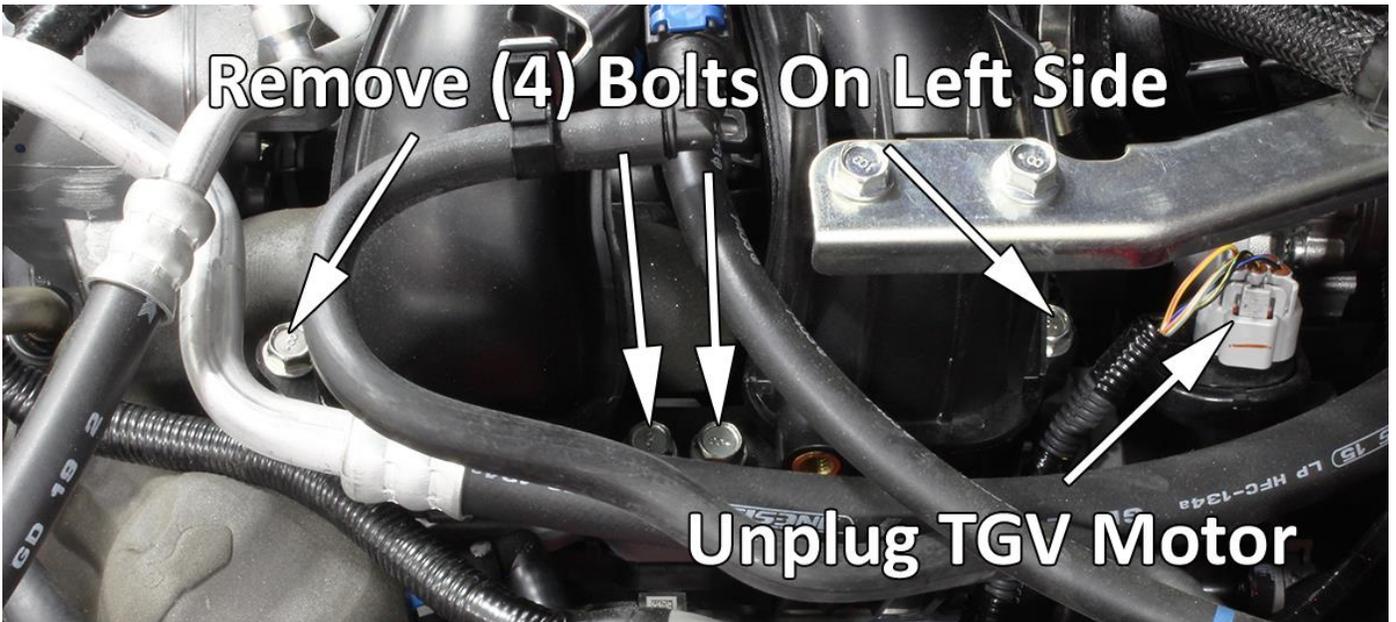
1. Make sure vehicle has completely cooled off.
2. Remove engine cover from engine by removing (2) plastic pop-it type fasteners at rear and pulling straight up on front. Take care in doing this as the buttons that secure the front half are fragile and can break off.



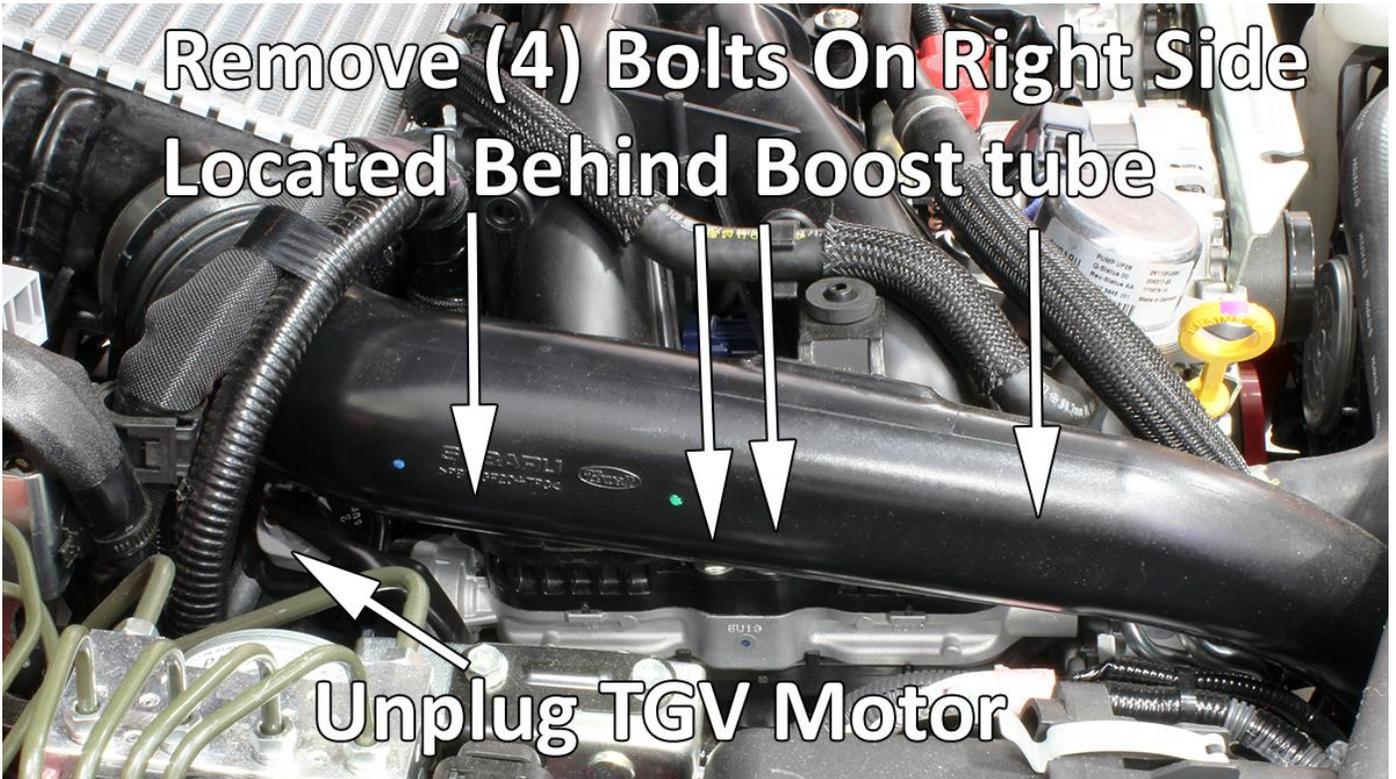
3. Remove harness from protective steel bracket on left side of engine as shown. **NOTE: Pinching bottom side with needle nose pliers will allow harness and plastic hold-down to easily come off.**
4. Locate and remove two 12mm headed bolts holding protective steel bracket onto engine. Once the bolts are removed, continue with removing steel bracket from the engine bay.



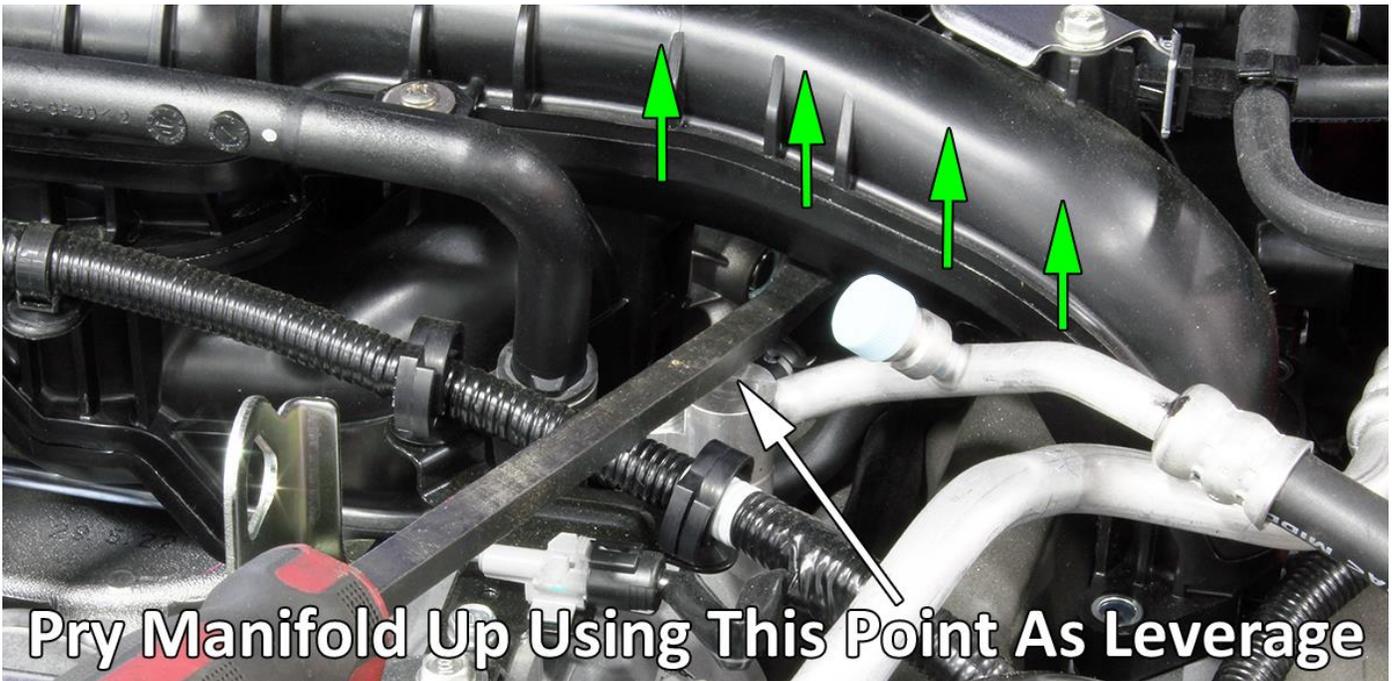
5. Locate and remove (4) 12mm headed bolts on the left side of the engine. These are securing upper intake manifold to OEM TGV Motor Housing.



6. Locate and loosen the same (4) 12mm headed bolts on the right side of the engine. **NOTE: Do not remove as this helps maintain the alignment of the intake manifold.**



7. Unplug electrical connections from both TGV Motor Housings.
8. Using prybar placed in the location shown below, lift intake manifold gently until OEM TGV housing is free to remove from engine bay. **NOTE: Make 100% sure that the prybar is placed in a location that will not damage the intake manifold or sensors that may be close to it. If you are unsure, the use of a shop towel may be a good way to reduce any damage.**



9. Using pry bar, lift intake manifold and install Left side PERRIN TGV Delete in place of the OEM TGV housing. **NOTE: There are left and right part numbers for the TGV housings. Make sure the notch is on the side toward the front of the engine bay and the PERRIN Logo is readable.**
10. Install (4) bolts through intake manifold and TGV housing making sure to thread them in roughly 3-4 turns. **NOTE: It may take some aligning of both TGV delete and upper intake manifold to get bolts to drop through them.**
11. Remove (4) 12mm headed bolts holding right side of the engine (shown in pictures and diagram in previous steps).
12. Using pry bar in the location shown below, lift intake manifold gently until OEM TGV housing is free to remove from engine bay. **NOTE: Make 100% sure that the prybar is placed in a location that will not damage the intake manifold or sensors that may be close to it. If you are unsure, the use of a shop towel may be a good way to reduce any damage.**



13. Using pry bar again, lift intake manifold and install Right side PERRIN TGV Delete in place of the OEM TGV housing. **NOTE: There are left and right part numbers for the TGV housings. Make sure the notch is on the side toward the front of the engine bay.**
14. Install (4) bolts through intake manifold and TGV housing making sure to thread them in roughly 3-4 turns. **NOTE: It may take some aligning of both TGV delete and upper intake manifold to get bolts to drop through a them.**
15. Once all bolts are threaded at least 3-4 turns, continue with tightening them down to 18-20ft-lbs. **NOTE: The order they are tightened at does not matter.**
16. Reinstall protective steel bracket removed earlier using hardware that was removed.

17. Use electrical tape to cover open side of electrical plugs that were plugged into each TGV housing. This step is important to keep pins clean and free from corrosion.
18. Reinstall plastic engine cover.
19. We recommend starting the car to make sure the engine runs as it should, but this will produce a check engine light. Be prepared to reset the ECU and or have the ECU recalibrated before driving car. If the engine runs poorly, check for vacuum leaks and repair if necessary.

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