

PERRIN

Pass Through Type Junction Block for 2008-18 STI or Aftermarket Fuel Pressure Regulators

2018-04-20

PSP-FUL-222

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

Instant Chat off the main page of 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:

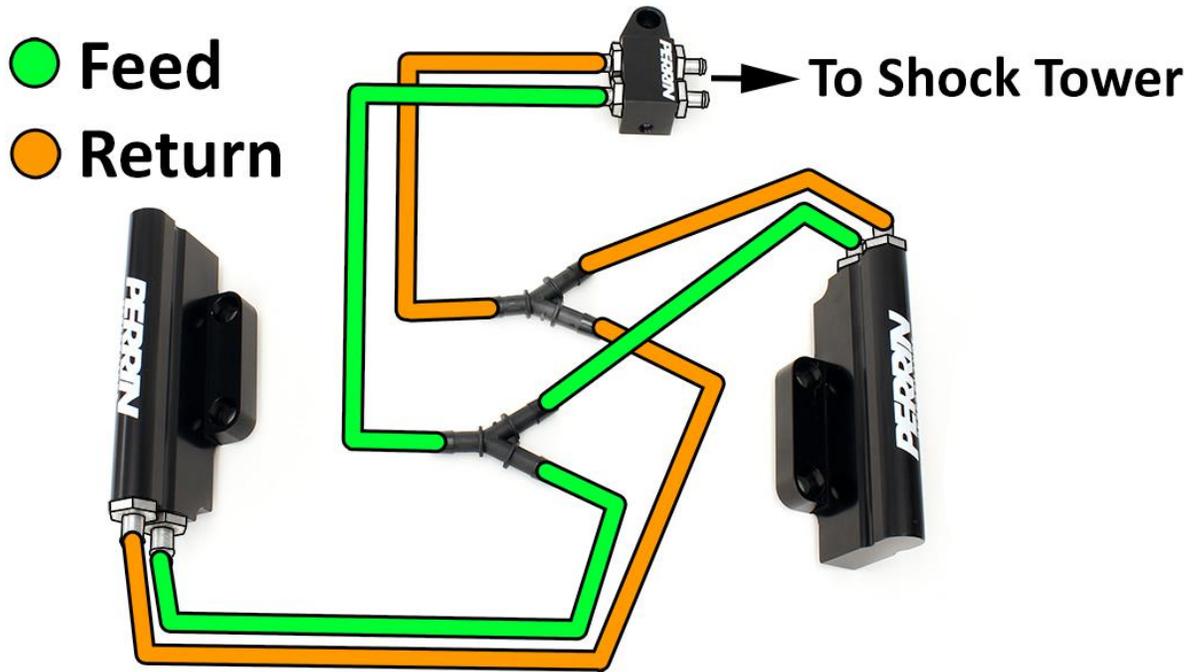
- This kit requires that the installer be very familiar with Subaru fuel systems and that many precautions are made to ensure fuel lines do not fail or rub on components that can lead to a fuel leak.
- All fittings and lines must be purchased separately. Make sure to use fittings, O-rings and fuel lines that are designed for fuel injection systems. Do not use fuel lines that don't specifically say they are approved for fuel injection systems. These hoses will fail and will cause a fire.
- Because no fittings are included, follow manufacturer's instructions as to how to connect hoses to fittings and how tight to tighten them.
- Junction block is threaded for a typical -6 male type O-ring fitting. The female thread pitch of our fuel rail is 9/16-18 with an O-ring groove built in. This is important to understand to make sure the correct type of fittings are purchased.
- Assumptions have been made that aftermarket fuel rails have already been installed.
- This block is designed to work with 2004-2005 STI fuel pressure regulators (mounts to the side) as well as any aftermarket regulator. This provides a way to have a clean break in the fuel lines to allow easier engine removal.

Parts Included With PERRIN Fuel Rail Kit

- (1) PERRIN Junction Block
- (1) M8x20mm SS Socket Head Bolt

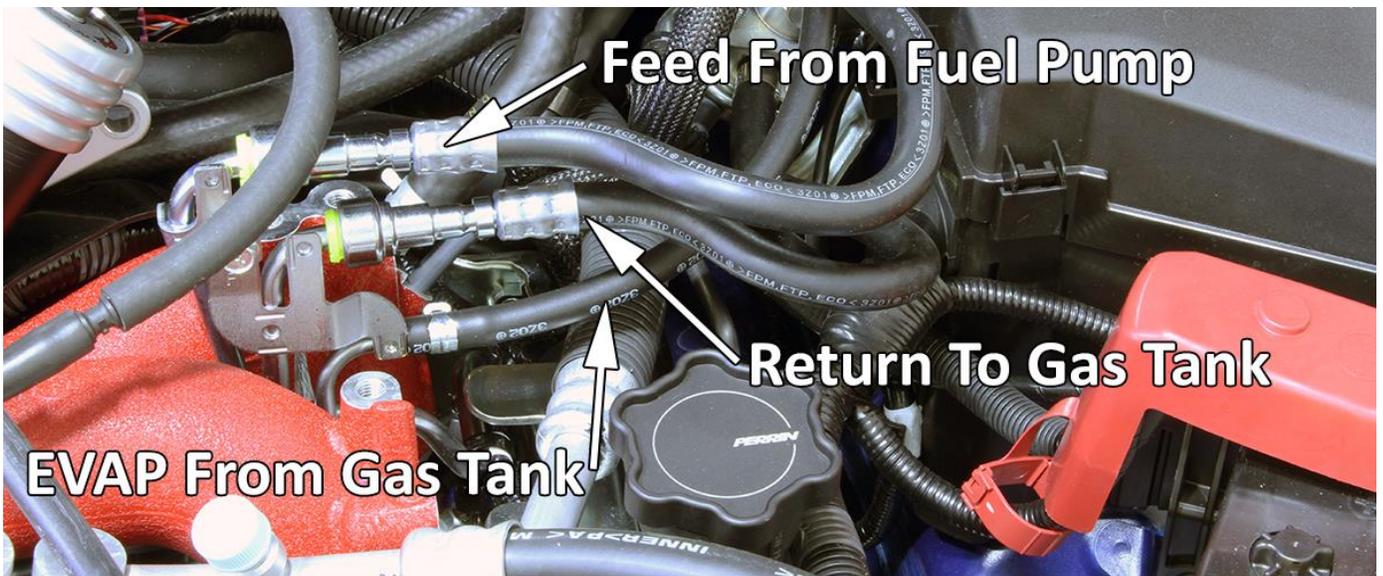


Threaded hole on side of junction block is used to hang the 04-05 STI fuel pressure regulator from.



Installation Of Junction Block

1. Follow factory service manual procedures for removing intake manifold and follow instructions as to how to mount fuel rails.
2. Install fittings into rails making sure to use proper Viton (the material) O-rings and a small bit of grease on threads and O-ring.
3. Using diagram above route fuel lines while keeping track of the "feed" and "returns" from the rails and make sure they route through the matching ports on the junction block.
4. Install hoses to fuel pressure regulator.
 - a. If installing an aftermarket regulator, make sure and follow the manufacturer's instructions as to how to hook up the hoses. Installation of the regulator can be done between the fuel rails and junction block, or between the junction block and fire wall.
 - b. For 08+ STI use diagram below to determine which hoses need to be hooked up to the PERRIN junction block. The top hose is the feed/pressurized hose from the fuel pump in all these models. The middle hose (which goes to the three port OEM regulator) is the return.
 - c. Threaded hole on side can be used to mount an OEM side feed type fuel pressure regulator. Connect hose from junction block return side to regulator, then from regulator to firewall.



Double Checks Before Starting

- Make sure hoses are all connected properly (feed and returns connected to the correct fuel pump and return hoses).
- Prime the fuel system (turn the key to the on position, then wait a few seconds) at least 5 times. Look closely for fuel leaks around the fuel injectors, and smell for fuel. If there is a leak, you should be able to smell it after system is pressurized. **Note: If leaks are present stop installation. Double check all connections and O-rings for signs of damage. If nothing is found, please contact PERRIN Performance for technical assistance prior to proceeding.**
- If no leaks are found, start engine.

If vehicle doesn't start or runs poorly please review the following items before seeking technical help:

1. Are each of the coil wires connected? Are they connected to the correct cylinders? White plugs go to front cylinders. Black plugs connect to rear cylinders.
2. Are all wire harness grounds bolted to intake manifold?
3. Are the crank and cam sensors plugged in, and snug to each sensor?
4. Are each of the injector O-rings (Fuel rail O-ring and manifold O-ring) undamaged and installed?
5. Was each manifold gasket installed undamaged and aligned with intake ports to avoid vacuum leaks?
6. Are the feed and return hoses connected correctly?
7. Re-check each vacuum connection for leaks. Double check inlet hose, PCV etc.

If these check out to be ok, please contact technical support. Have all CEL codes available as this will significantly reduce the time needed to solve any problem you encounter.

Questions, Comments and Suggestions Contact: Tech@PERRINperformance.com

Visit Our Website for Instant Chat Options at www.PERRINperformance.com

Call Our Tech Team at 503-693-1702