Clutch Delay Valve Delete

2026-10-26 PSP-BRK-300

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 by 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: **Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands.**

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:

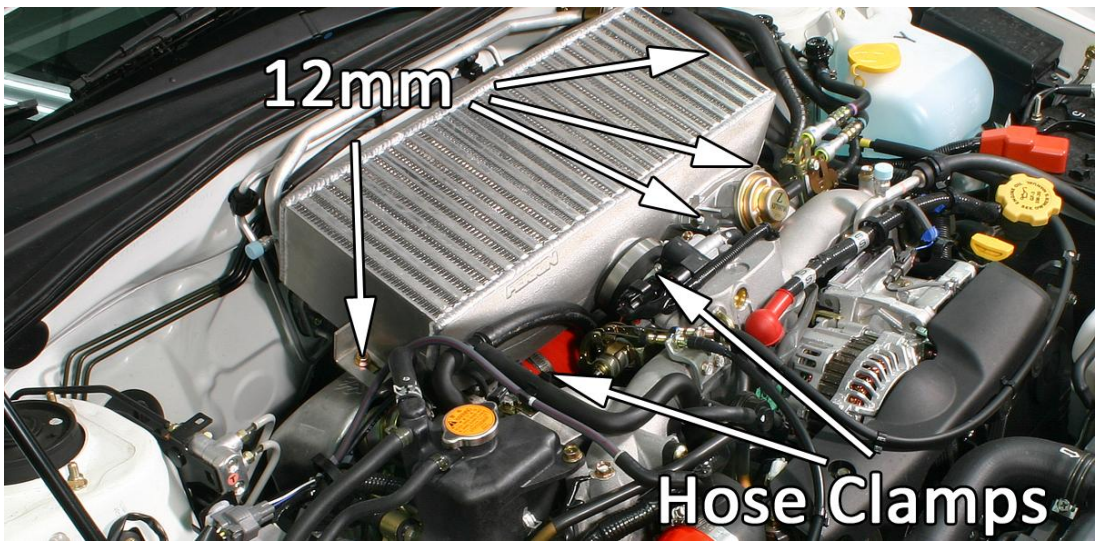
- Be prepared to bleed clutch hydraulic system during installation. This will require proper brake fluid and proper tools used for bleeding clutch or brake systems.
- There are two styles of clutch delay valve internals. The model years that these appear in are not completely understood, which means identifying which one you have is required for the installation. Both styles require the removal of all the internal components of the OEM clutch valve delay.
- Removal of the OEM clutch delay valve will add more natural feel to how the clutch operates, and it will be slightly easier to push down on the clutch pedal after installation. This does come with a trade off as this valve is designed to reduce the shock to the drivetrain when doing standing launches. If you are launching the car often by lifting the clutch as fast as you can (or side stepping the clutch) you may reconsider installing this part. This abrupt approach to launching the car is never recommended and can still lead to drivetrain damage.

Included Parts with PERRIN Clutch Delay Valve Delete:

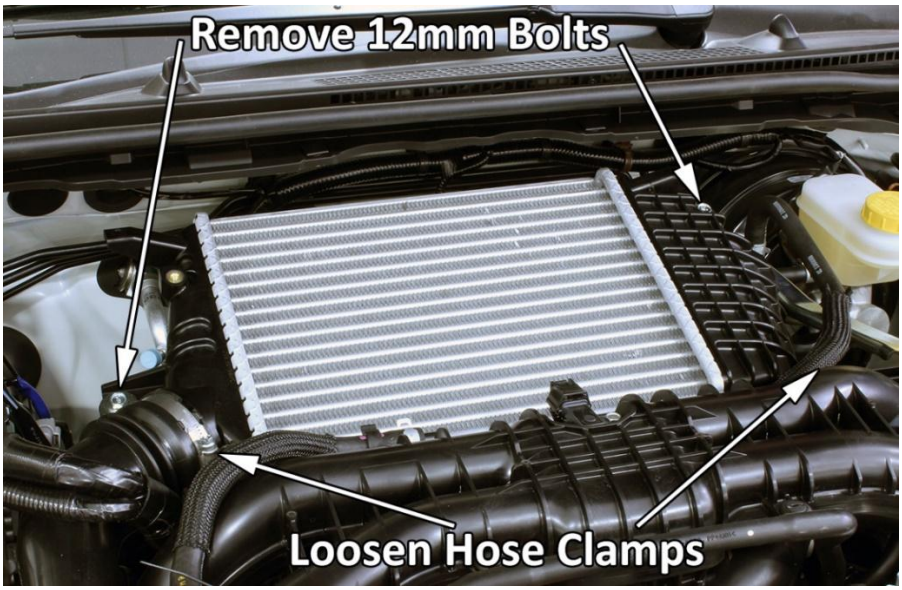
QTY	Part Number	Description
1	X-PSP-BRK-300RD	Clutch Delay Valve Delete for WRX/STI Red
1	X-BLT-35WF125N-BK	Washer Nylon 1.114"OD x .840"ID x .125" Thick Nylon Black

Installation Instructions

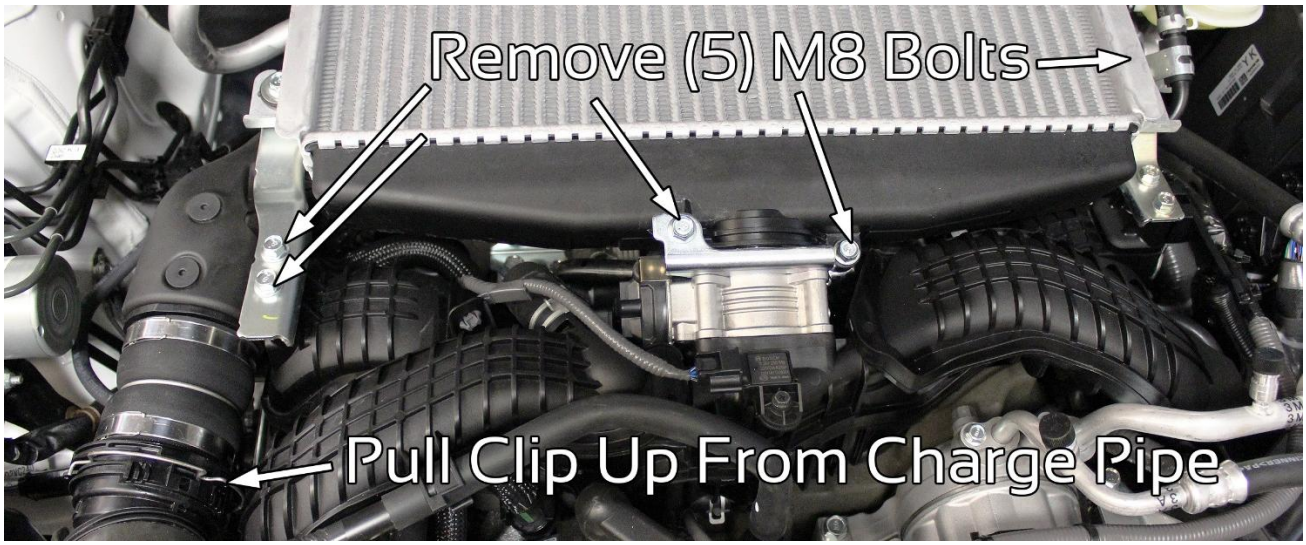
1. Remove intercooler (or intake, if working on a non-turbo engine) from car. This step will vary depending on the year of the car and aftermarket parts installed.
    a. For 2002-2014 WRX and all STI models, locate and remove (4) M8 bolts (12mm heads) securing bypass valve and intercooler to engine, then loosen (2) hose clamps as shown in picture below.



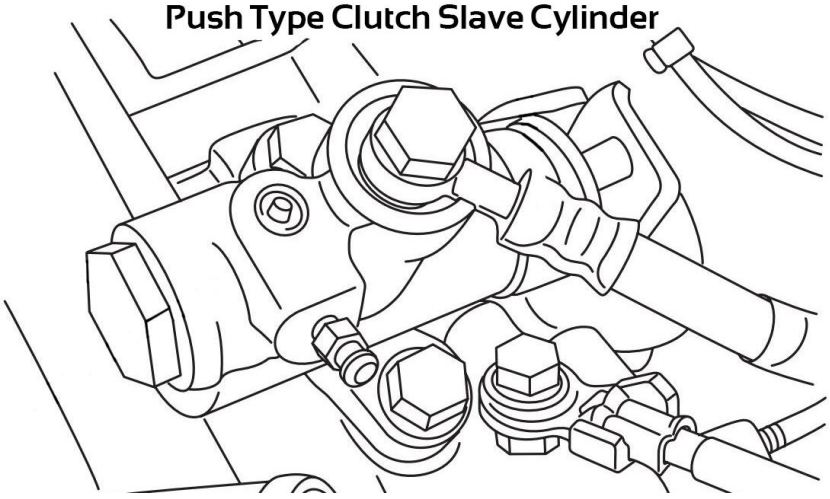
    b. For 2015-2021 WRX models, locate and remove (2) M8 bolts and loosen (2) hose clamps as shown in picture below.



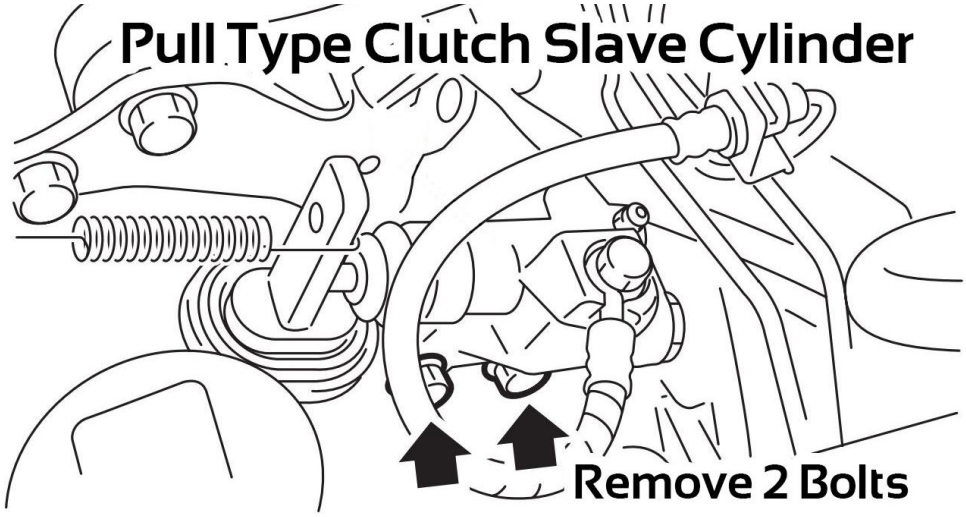
c. For 2022+ WRX models, locate and remove (5) M8 bolts (12mm heads) and large stainless steel clip securing charge pipe to intercooler as shown in picture below.



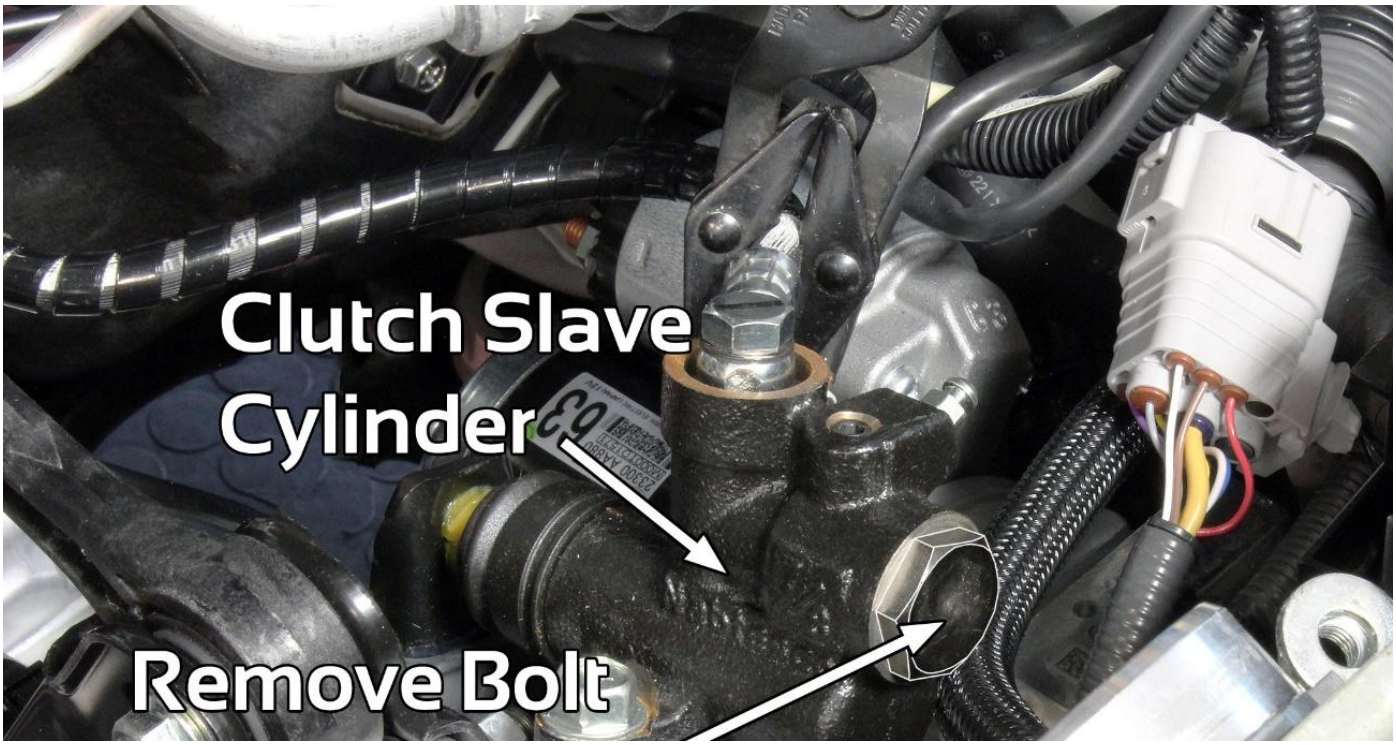
2. Locate the clutch slave cylinder on transmission.
   a. Cars with a “push style clutch” have the clutch slave cylinder located on top of the transmission, directly below intercooler, where the engine and transmission meet. The PERRIN Clutch Delay Valve Delete can be installed with the clutch slave cylinder bolted in place.



   b. Cars with “pull style clutch” have the clutch slave cylinder bolted to the side of the transmission next to the starter motor. The clutch slave cylinder must be removed from the transmission in order for the PERRIN Clutch Delay Valve Delete to be installed.



3. Place some paper towels under the clutch slave cylinder, then use a 24mm socket/wrench (or adjustable wrench) to remove OEM clutch delay valve bolt as shown in picture below.
    a. **NOTE #1: The clutch slave cylinder can be slightly corroded under the OEM bolt. After OEM parts are removed, we recommend trying to clean up any corrosion you may find to prevent issues with the O-ring sealing during the next few steps.**
    b. **NOTE #2: If you have a stock rubber clutch line that is in good condition, using pinch pliers as shown in picture below, can help reduce the amount of clutch fluid that will drip out. If an aftermarket stainless steel braided clutch line is installed, DO NOT use pinch pliers. In both scenarios, be prepared to do this step and the next 2 as fast as possible to minimize the loss of brake/clutch fluid. This oil must be cleaned up immediately or damage can occur to the parts it is left on.**



4. Using pictures below, determine which OEM Clutch Restrictor you have, then make sure and remove all leftover hardware inside the clutch slave cylinder.

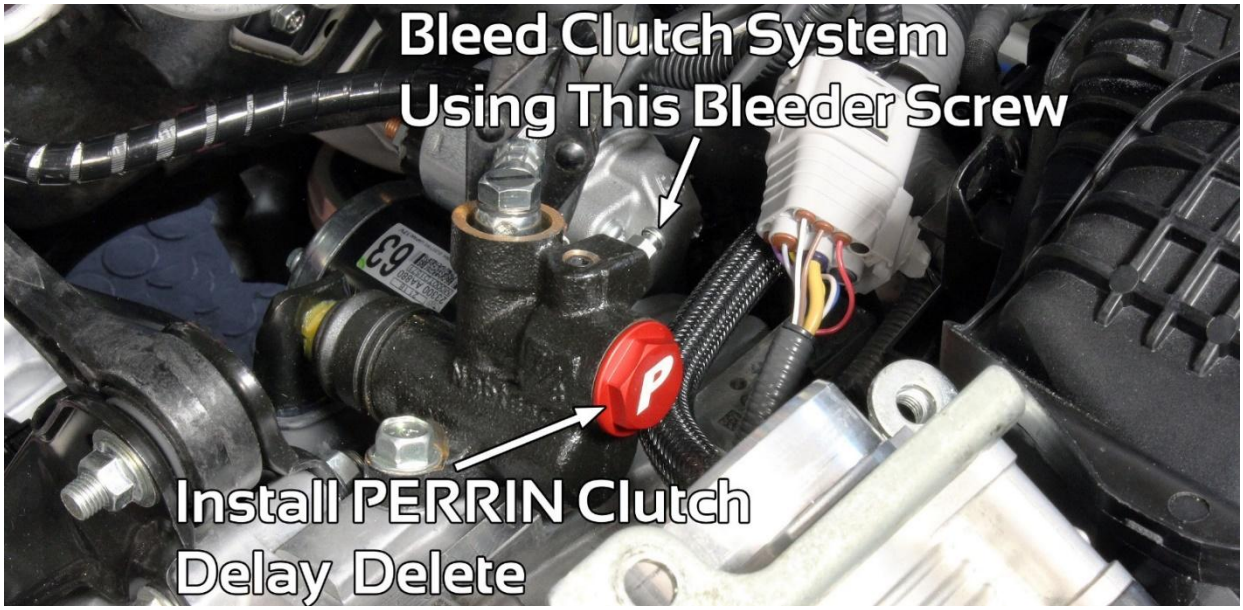


Most Common OEM Clutch Delay Valve



Less Common OEM Clutch Delay Valve -Requires Spacer To Be Installed on PERRIN Valve Delete-

5. If your OEM clutch delay valve looks like the one on the left, skip to the next step. If your OEM clutch delay valve looks like the part on the right, install supplied black spacer onto the PERRIN Clutch Delay Valve Delete.
6. Remove the O-ring from OEM clutch delay valve and install it onto the PERRIN Clutch Delay Valve Delete.
7. Install PERRIN Clutch Delay Valve Delete into OEM clutch slave cylinder and tighten (using a 22mm socket/wrench) to roughly 20 ft-lbs. **NOTE: This part seals with the O-ring and the actual torque spec is not critical to keep it from leaking.**



8. If clutch slave cylinder was removed during previous steps, reinstall it now and tighten bolts to 20 ft-lbs.
9. Bleed clutch system using a proper vacuum assisted hydraulic fluid bleeder. Instructions on how to do this can be found online or may be part of the bleeder kit. **NOTE: If you do not have a vacuum bleeder, you can bleed the system using clear tubing and a friend. Directions for this can be found online. Just make sure this is done very thoroughly as this method can be more difficult to get rid of all the air in the line.**
10. Test clutch action and ensure it feels solid and as firm as it did before installation. **NOTE: If pedal feels squishy at all, re-bleed system and test again.**
11. Reinstall intercooler in reverse order as done in previous steps. Take car for short test drive to ensure clutch operates as it did before installation, but with the improvements that are mentioned in the special notes section.

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