



**IE Audi C7 /C7.5 4.0TT HPFP (High Pressure Fuel Pump) Install Guide**  
**IE Part Numbers: IEFUVP1**

Thank you for purchasing another high-quality Integrated Engineering product! This instruction guide is used for the installation of IE's HPFP Upgraded Internal Kit for Audi C7 S6, S7, & RS7 4.0TT engines. Installation requires disconnection of fuel lines, bench vice, and a very clean working environment. Professional or experienced technician installation is highly recommended. Integrated Engineering is not responsible for any damage or premature wear on fuel pump internals caused by incorrect installation.

**KIT CONTENTS:**

- 2x HPFP Nitrided Steel Cylinder
- 2x HPFP DLC Coated Steel Pin
- 2x HPFP Hex nut



### TOOLS REQUIRED:

- #10 Triple Square Driver
- 17mm open ended wrench
- IE pump nut removal tool - IE Part# IEFUVN1-4
- Bench vice
- Pliers
- Safety Glasses

Before you begin, park your vehicle in a safe and level location. Allow plenty of time for the engine to completely cool before beginning the installation procedure. Unbox your IE HPFP Kit to verify the contents and quantities and check for any possible shipping damage. Prepare your work space and locate the required tools listed above before starting.

IE recommends pre-reading the entire installation guide ahead of your install to both prepare yourself for each step and to make sure you don't have any questions before beginning. If you have any questions or need clarification, please contact our helpful support team specialists at [support@performancebyie.com](mailto:support@performancebyie.com)

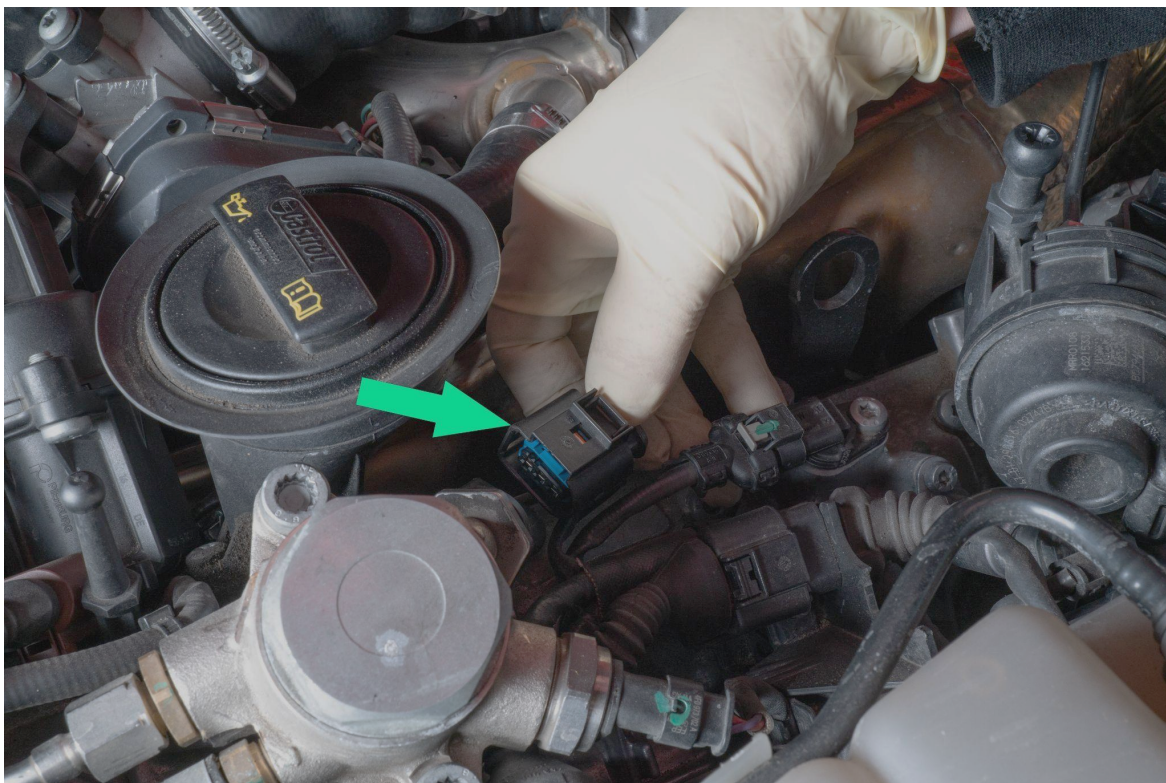
**This install guide steps will be repeated on both fuel pumps on the vehicle.**

Remove engine cover by pulling straight up and off the 4 mounting posts.



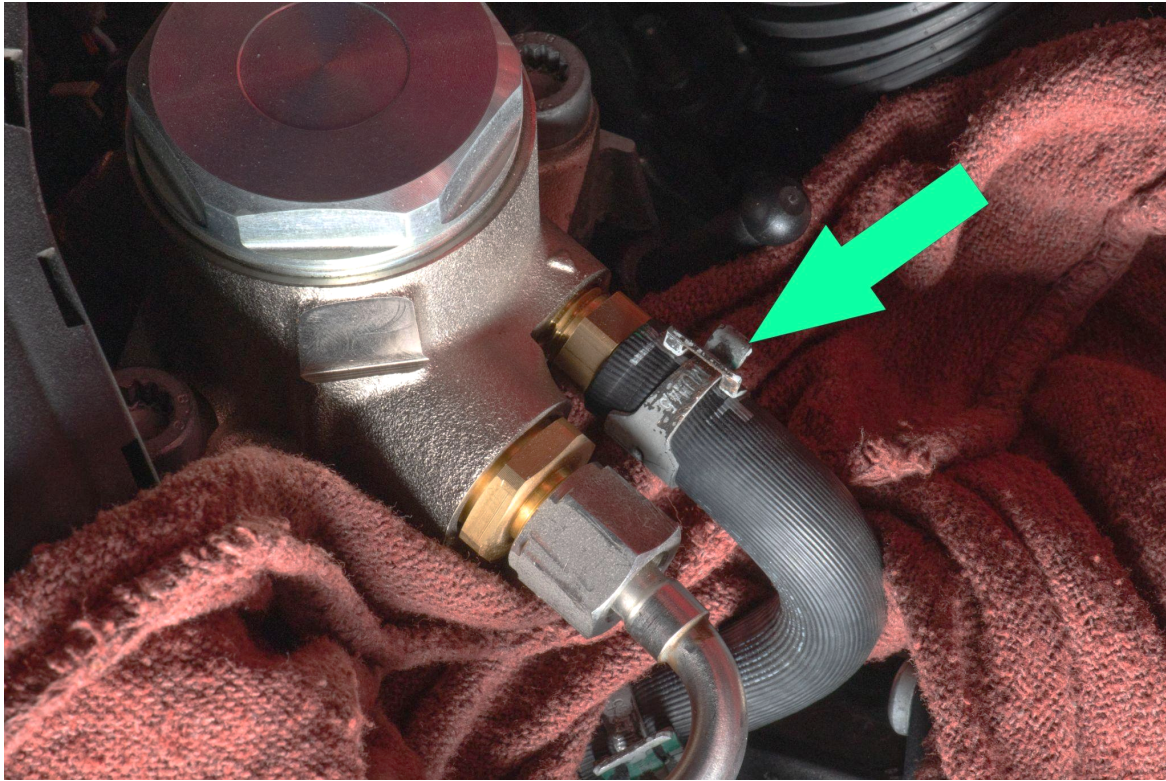


Remove 2 fuel pressure sensors by pressing in on the gray clip





Put a rag under the hoses to the fuel pump to ensure no fuel leaks into the engine bay, and remove hose clamp from hose using a set of pliers.

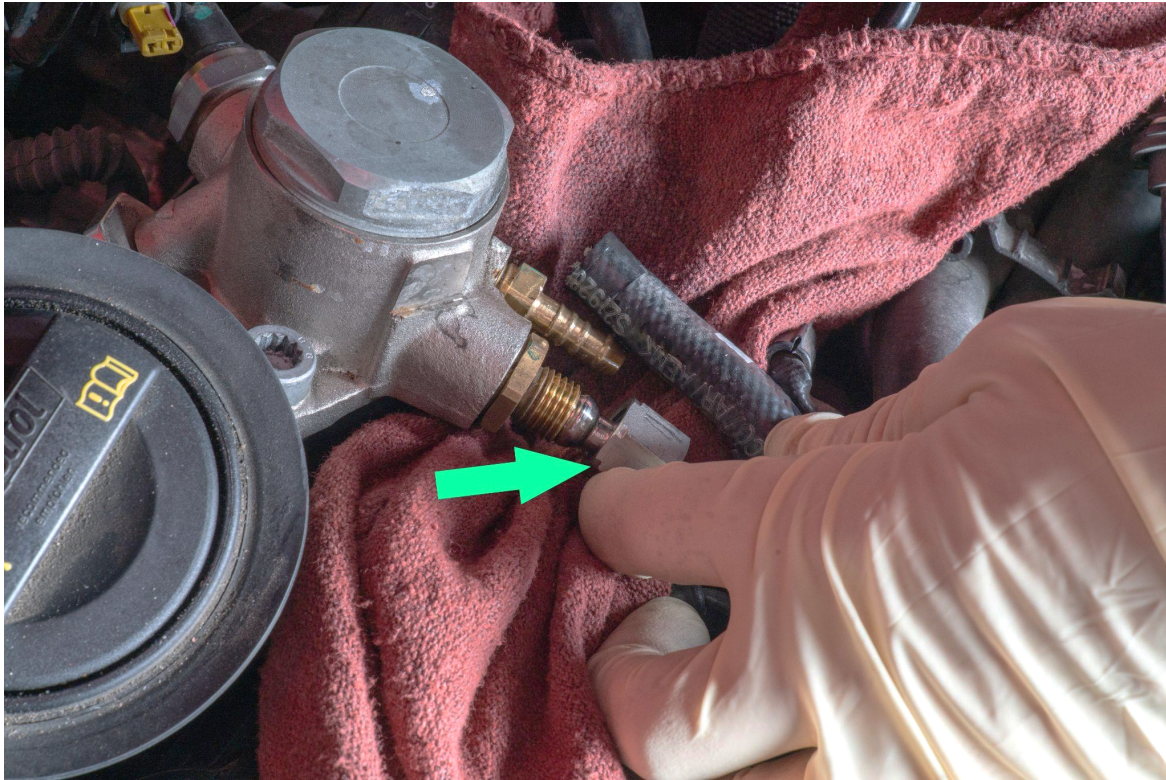


Remove hose from fuel pump.

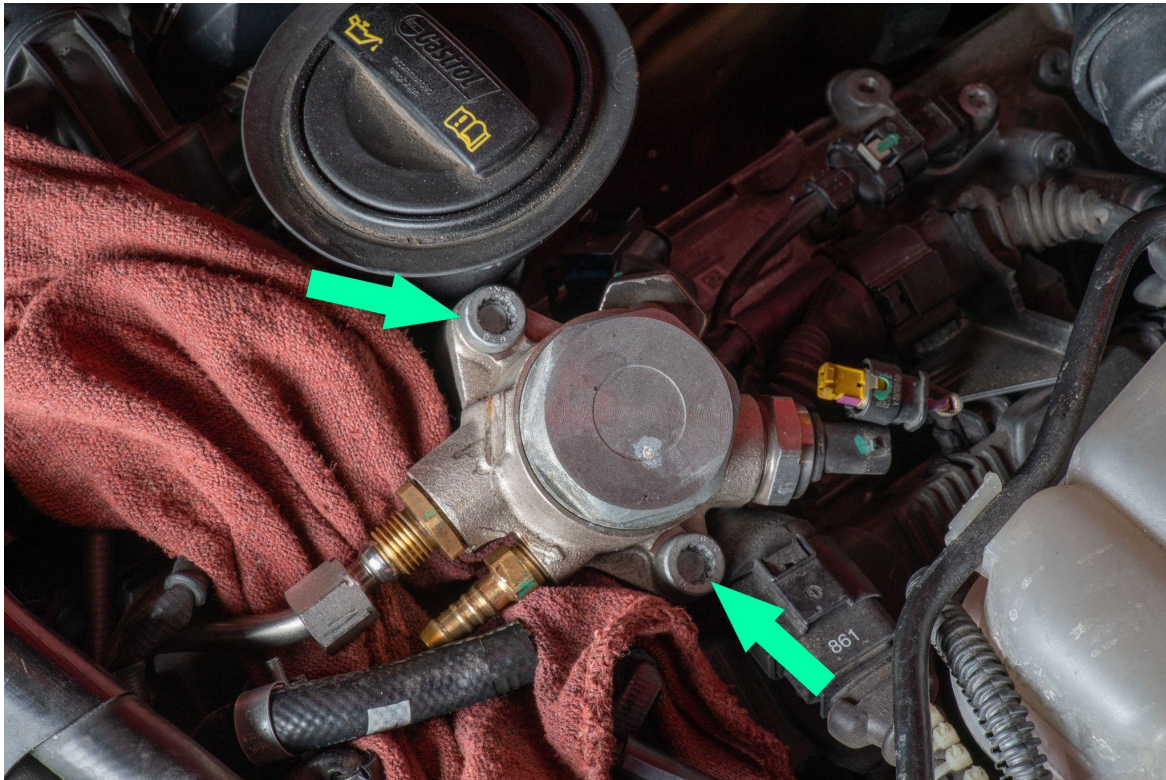




Remove fuel line nut with a 17mm open ended wrench.



Use a #10 triple square to remove 2 bolts on the fuel pump.



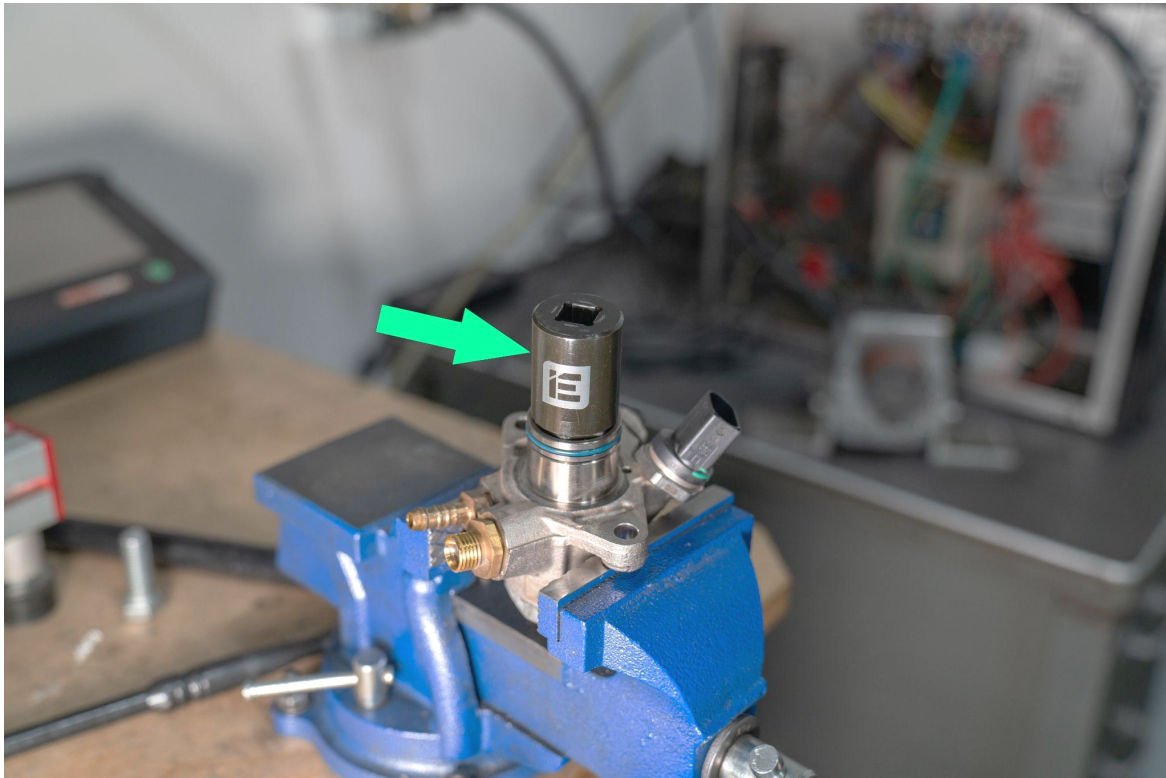


Remove the fuel pump from the engine bay by pulling up.



### **Putting together the kit internals**

Place your fuel pump in a vice and tighten. Use the IE fuel pump nut removal tool to remove the fuel pump nut.





Remove fuel pump internals from the pump after loosening the nut.



Push the pin up to release the retainer, then remove the pin from spring.





Remove the IE pump internals from the box, and place in a clean location.



Clean the old spring with parts cleaner and a shop rag.





Rinse and thoroughly clean the internals of the fuel pump.



Carefully remove blue O-Ring with a pick located on the OE fuel pump nut.



Clean and apply the OE O-Ring onto the new pump nut insert.



Apply supplied lubricant to the pin and spread over the whole pin.





Install barrel into fuel pump nut.



Slide pin into the new IE barrel and fuel pump nut.





Install spring and retainer and seat the retainer on the pin by pressing down on the pin.



Pictured is how the retainer should look when seated.



Install IE internals by threading in the fuel pump nut by hand



Tighten the fuel pump nut with IE fuel pump tool to 40 ft/lbs

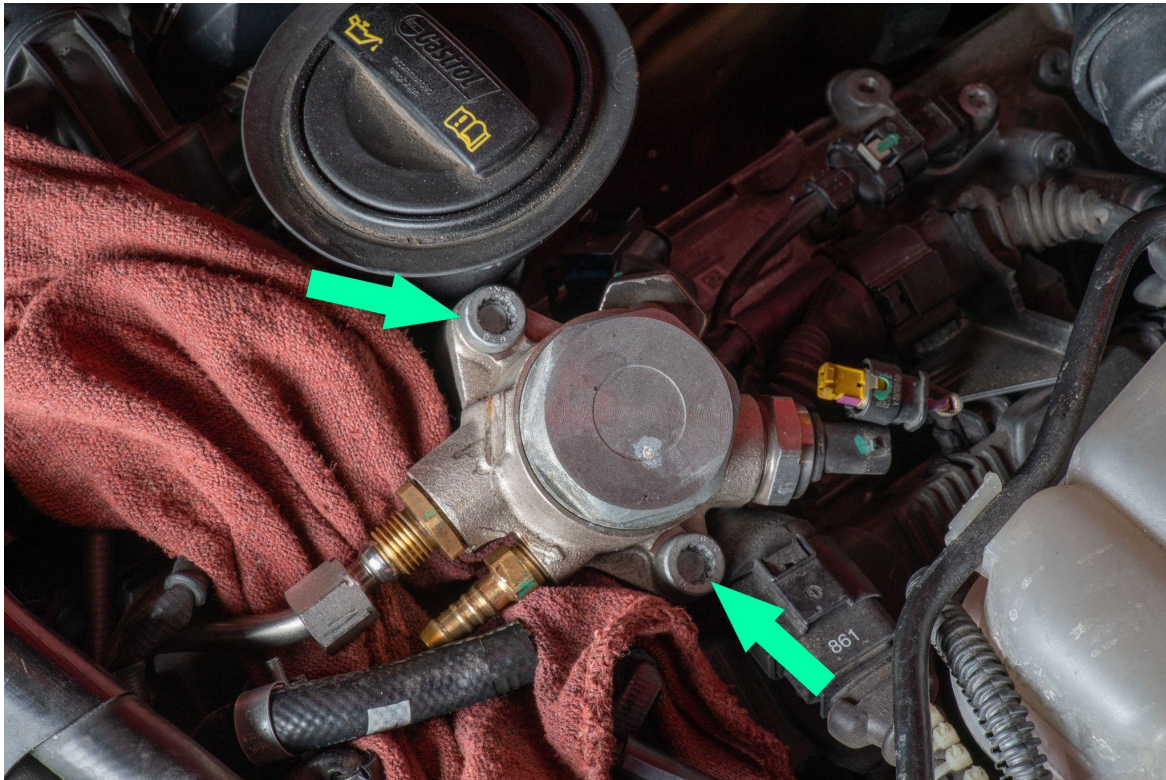




Place the fuel pump back into the engine bay.

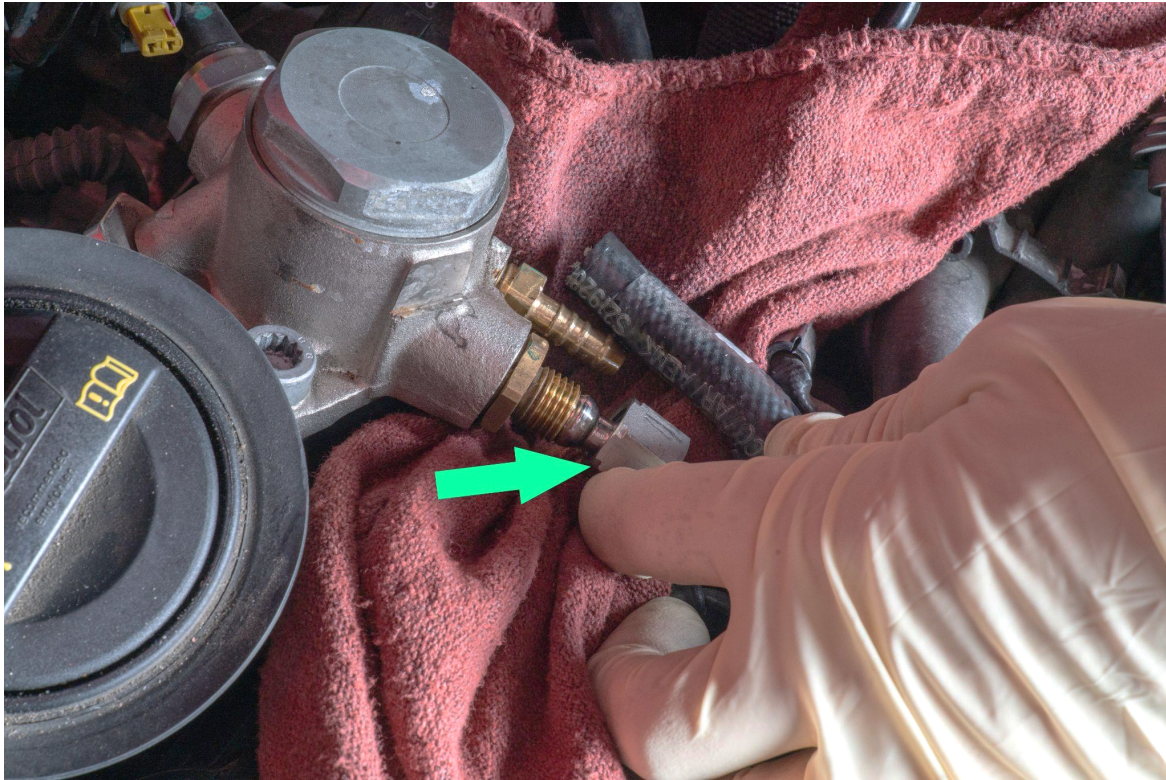


Use a #10 triple square to tighten the 2 bolts on the fuel pump.





Install and tighten the 17mm fuel line nut.

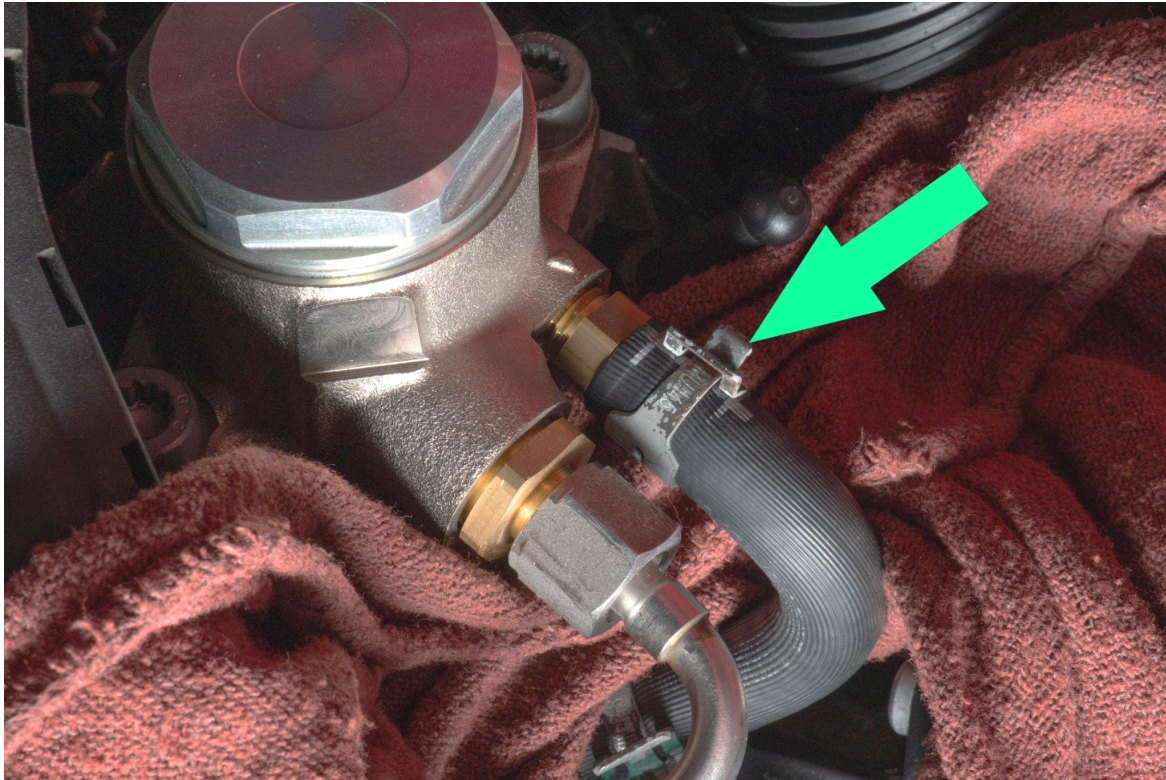


Install the fuel pump hose onto the fuel pump.





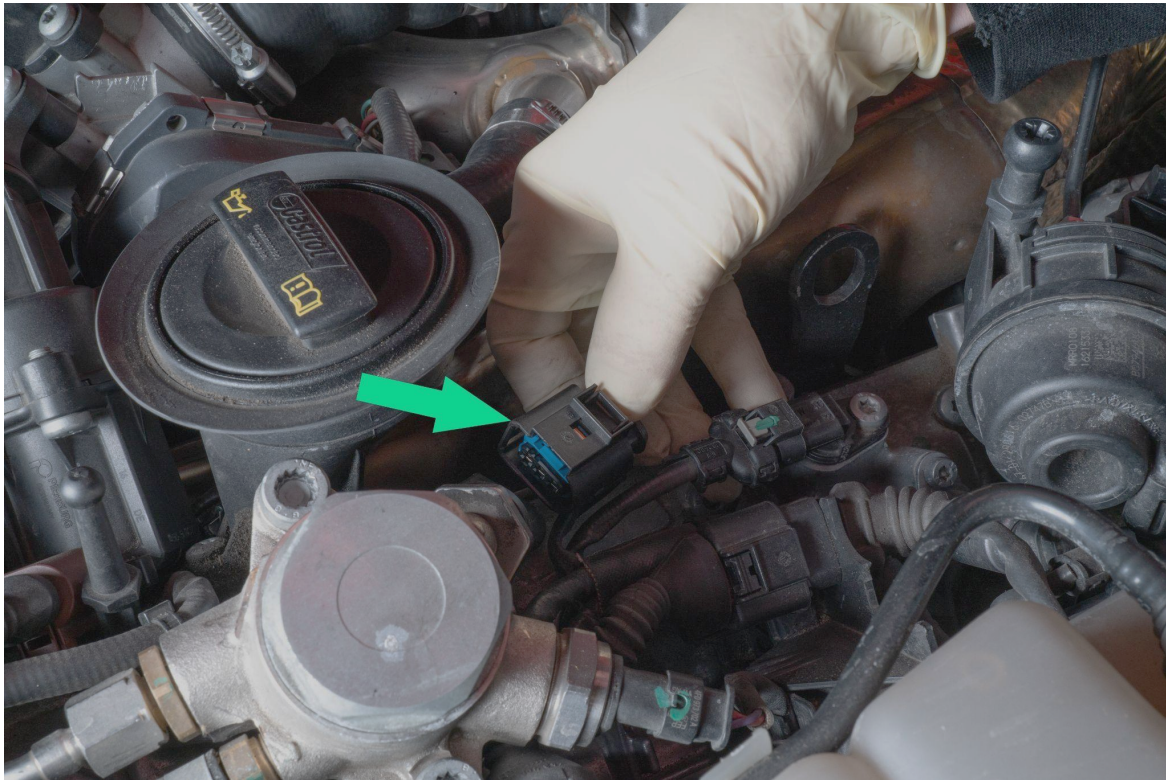
Install hose clamp onto the fuel pump hose using a pair of pliers.



Reconnect 2 fuel pressure sensors by pressing the connector into their correct position.





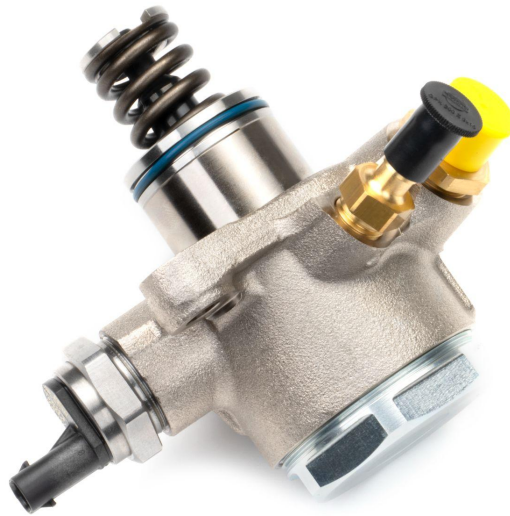


Reinstall engine cover by pressing it onto the 4 posts that secure it





Once reinstallation of the new IE pump is complete, you'll want to prime your new pump. This can be done by either cycling the key to position 2 (Pressing the start button without a foot on the brake) or by simply locking and unlocking the vehicle. This is also the ideal time to check for leaks from any hoses or seals.



Thank you for purchasing another Integrated Engineering product. We are dedicated to serving your VW/Audi engine and performance needs. Please check our website frequently for new product releases. If you have any questions or concerns about this product please do not hesitate to contact us.

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