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**IE MQB HPFP (high pressure fuel pump) EA888 Gen 3 2.0T Install Guide**  
**IE Part Numbers: IEFUVN1 (HPFP Kit) & IEFUVN1-4 (Install Tool)**

Thank you for purchasing another high-quality Integrated Engineering product! This instruction guide is used for the installation of IE's HPFP Upgrade Internal Kit for Audi/VW MQB EA888 Gen 3 2.0T engines with Hitachi high pressure fuel pumps. Installation requires disconnection of fuel lines, hydraulic press, 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.

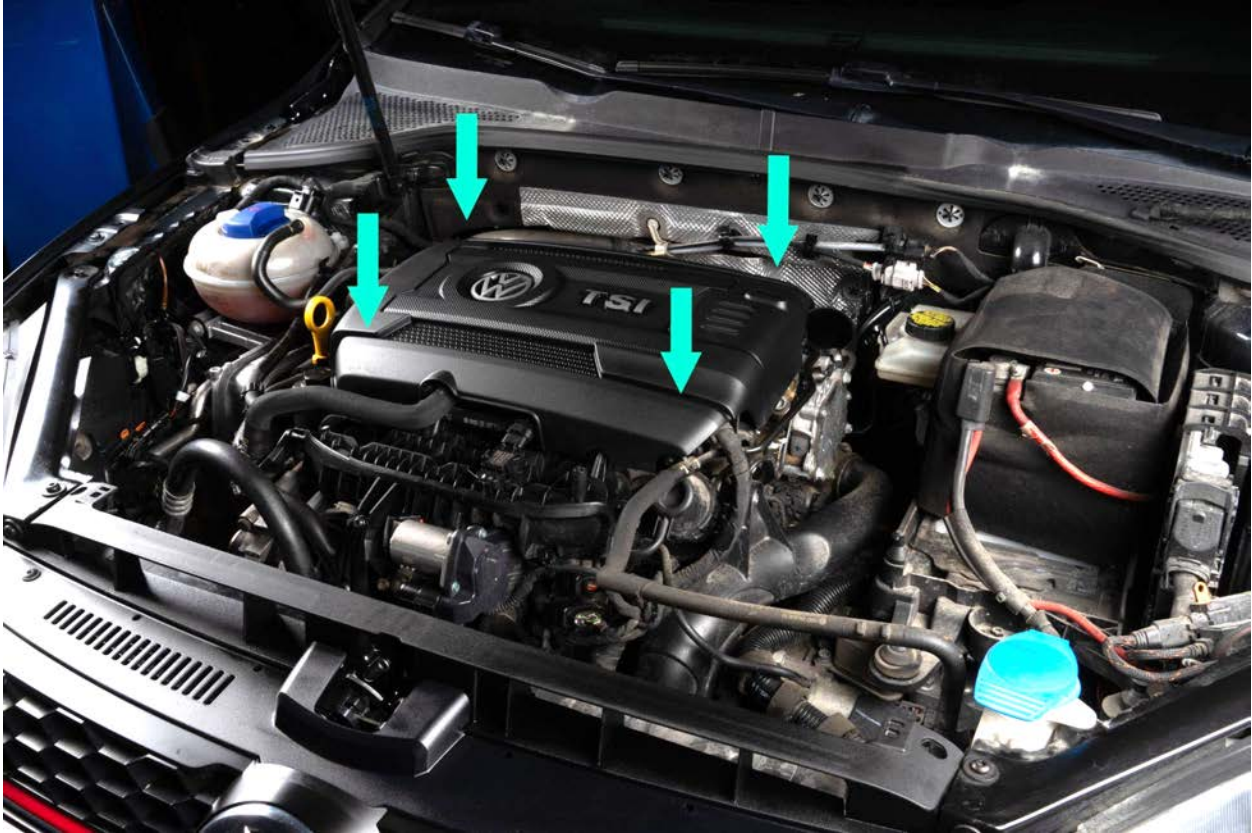
**KIT CONTENTS:**

- HPFP titanium spring retainer
- HPFP DLC coated tool steel pin
- HPFP nitrided tool steel cylinder
- HPFP assembly body with seal & o ring



*Before you begin, open your IE MQB HPFP kit, inspect all components, and verify quantities.*

Remove engine cover by pulling straight up on each corner

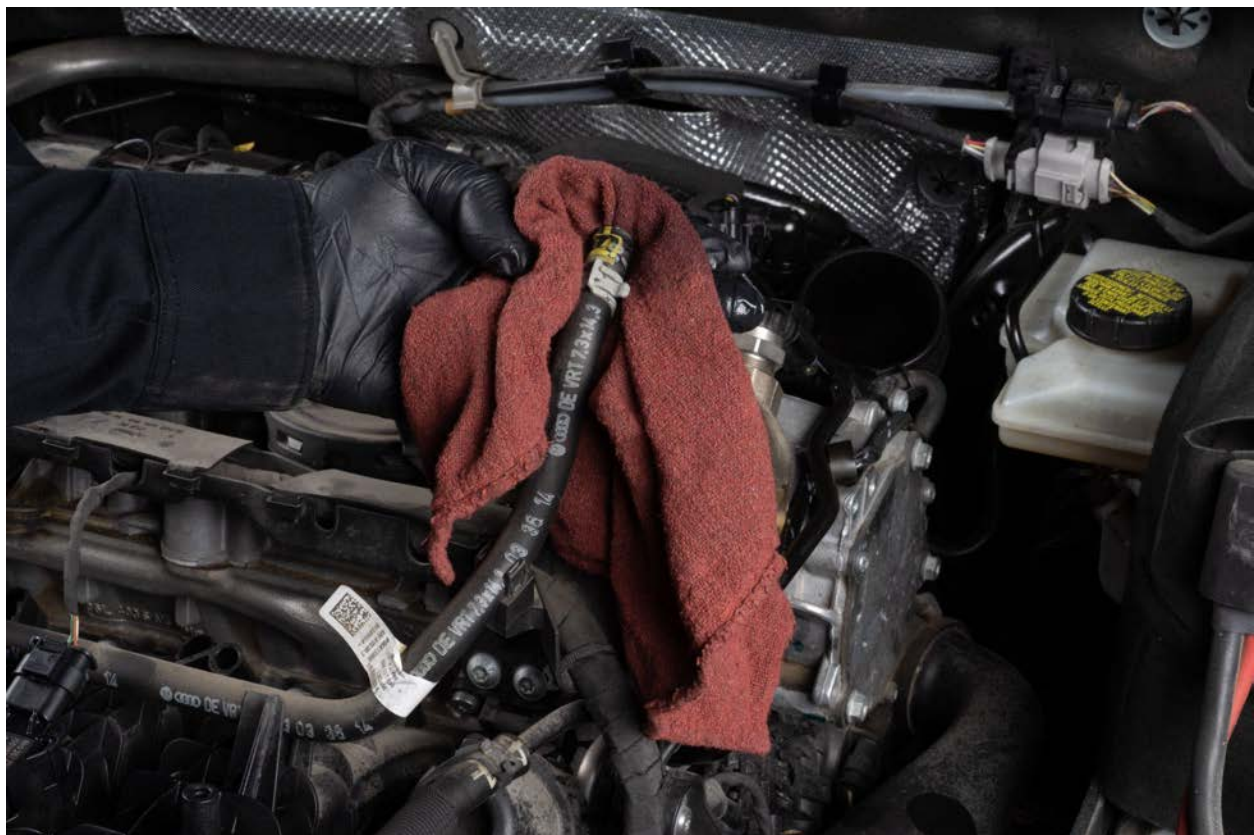




Place rag over fuel supply line and remove clamp using pliers



Remove Fuel Supply Line from Fuel Pump

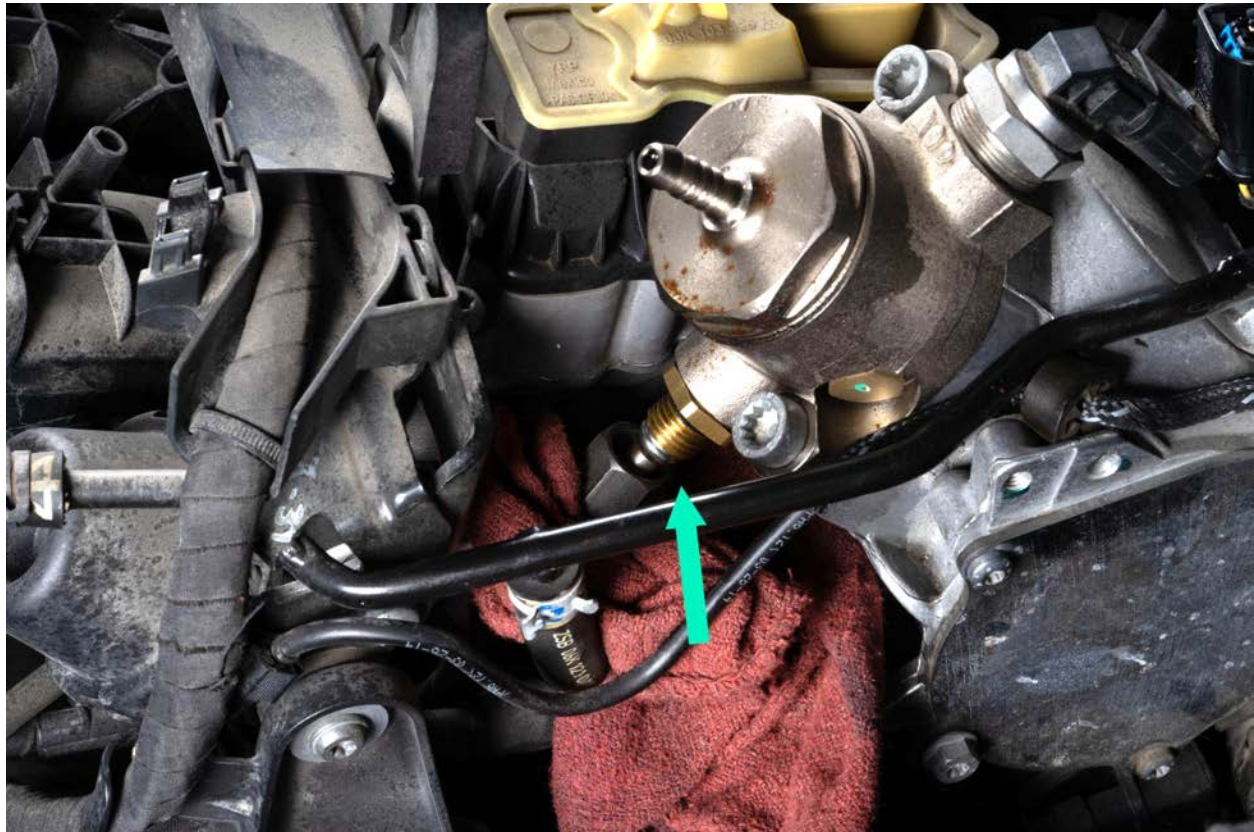




Remove harness from sensor located on the top of the fuel pump



Place a rag around the high pressure fuel supply line and using a box end wrench, loosen the nut, then place the rag below and remove the nut from the supply line.

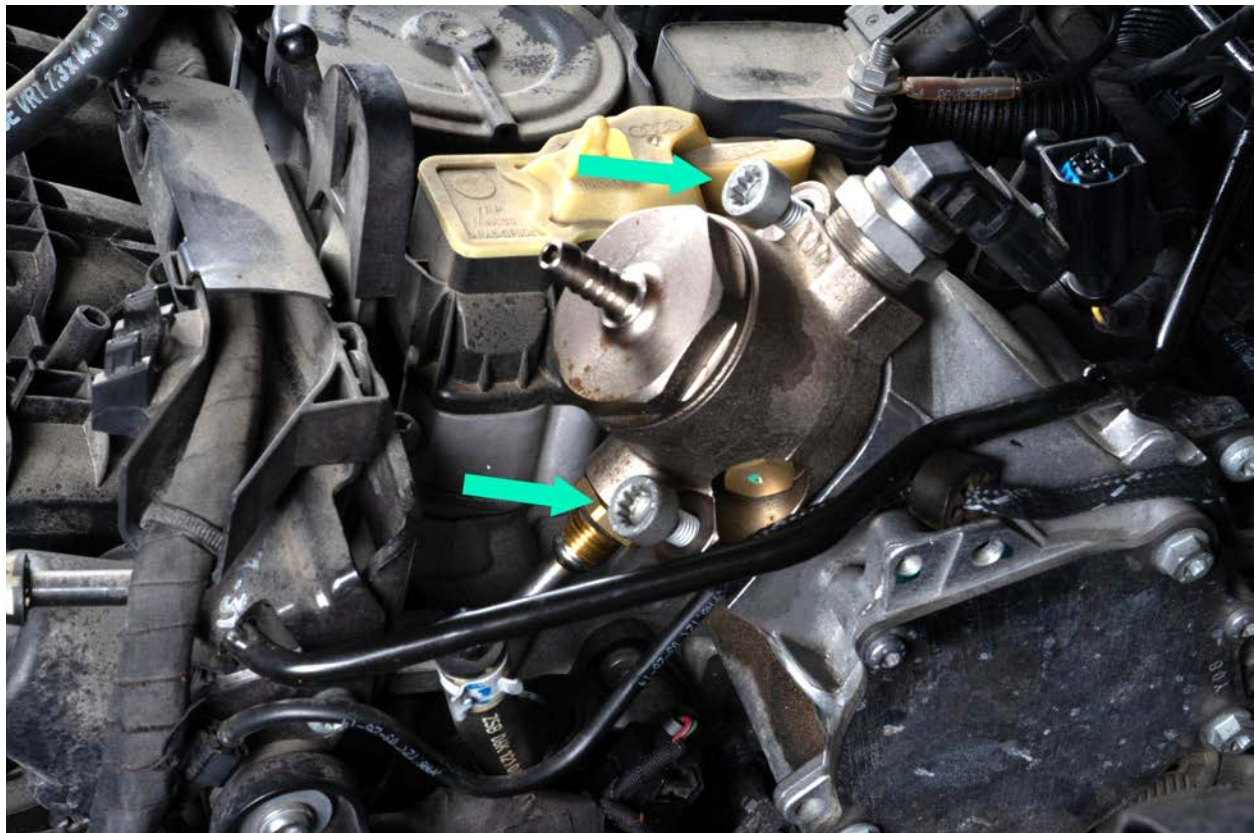




Using T30 bit, remove the screw holding the fuel line bracket

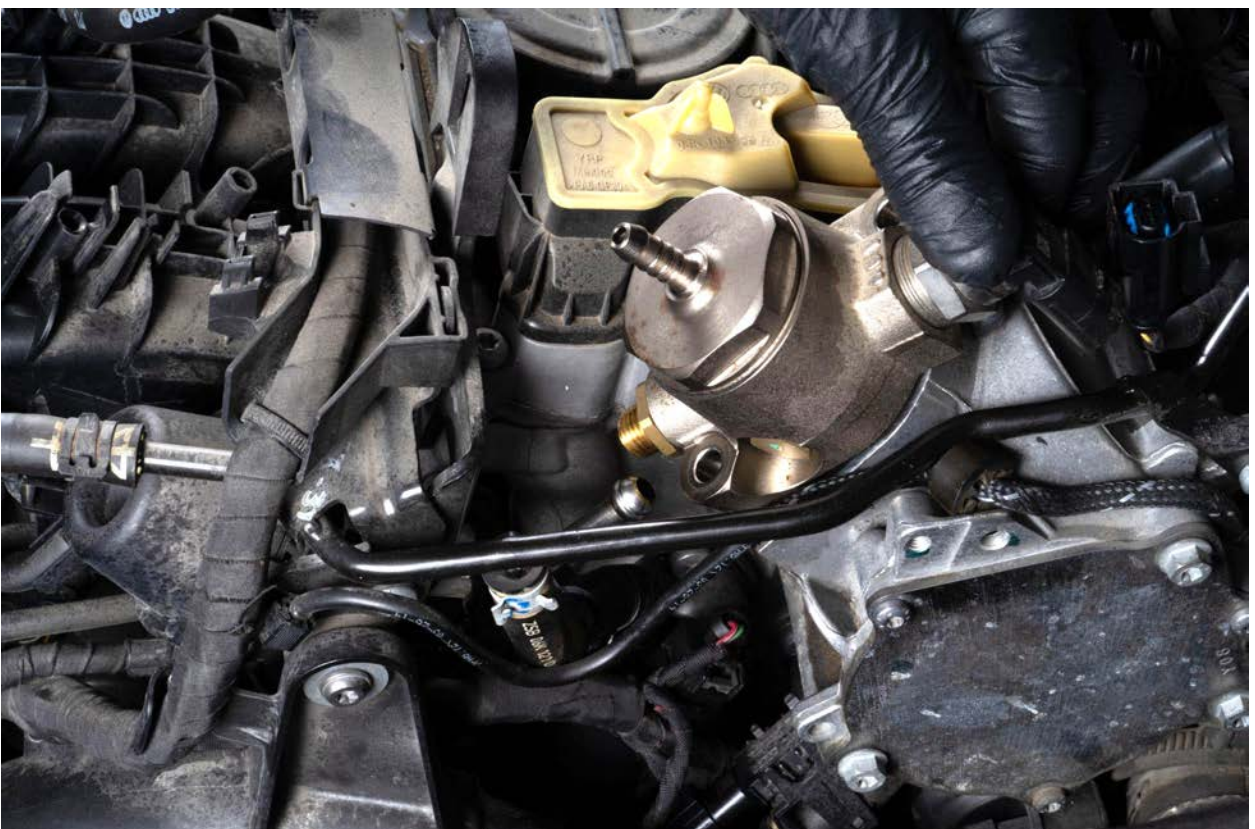


Using number 10 Triple square, remove the HPFP Bolts from the top of the pump



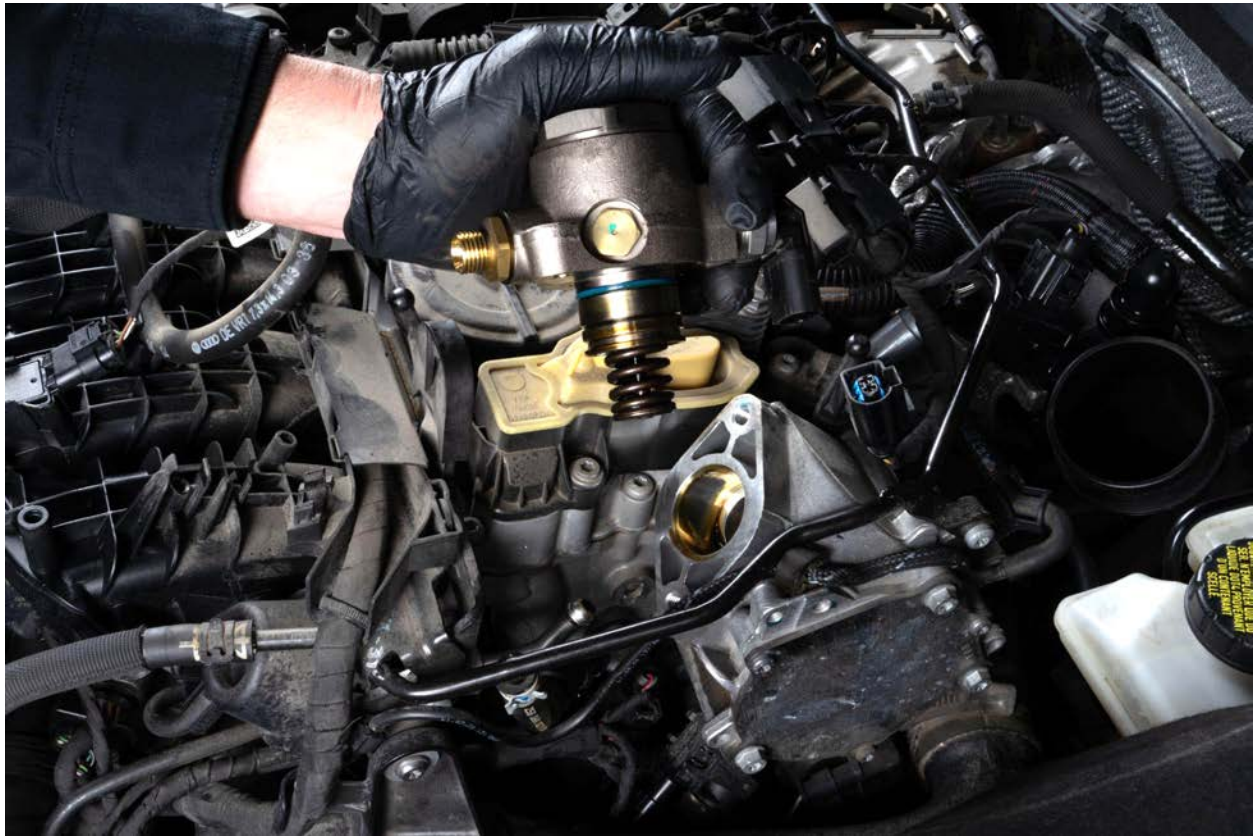


Factory procedure says that this lower supply line nut pictured should be removed, however you can save lots of time by gently pressing down on the high pressure fuel line while twisting the HPFP to the drivers side. This will help the fuel line clear the fitting. Take caution to not bend, deform or crush the line. Simply apply enough pressure to allow the line to clear the fitting.





Remove the pump from the housing.



Pull the HPFP internal assembly from the pump using your IE assembly tool (part number IEFUVN1-4), 1/2" drive socket wrench, and a bench vise.







Prepare an incredibly clean surface, this is **very** important as any contamination can cause issues with seals or wear on the pin/cylinder and lead to premature failure.





Using a hydraulic press, line up a similar-sized bit to the stock HPFP pin and press it out of the retainer to release the spring. Remove the stock spring and set aside for re-assembly with IE parts.



Thoroughly clean HPFP with degreaser.





Lay out all the new IE components, pump body, and the stock spring in your clean environment. Inspect and clean all parts of any contaminants (dust, dirt, lint, etc.)



Install the cylinder into the assembly body as shown below.

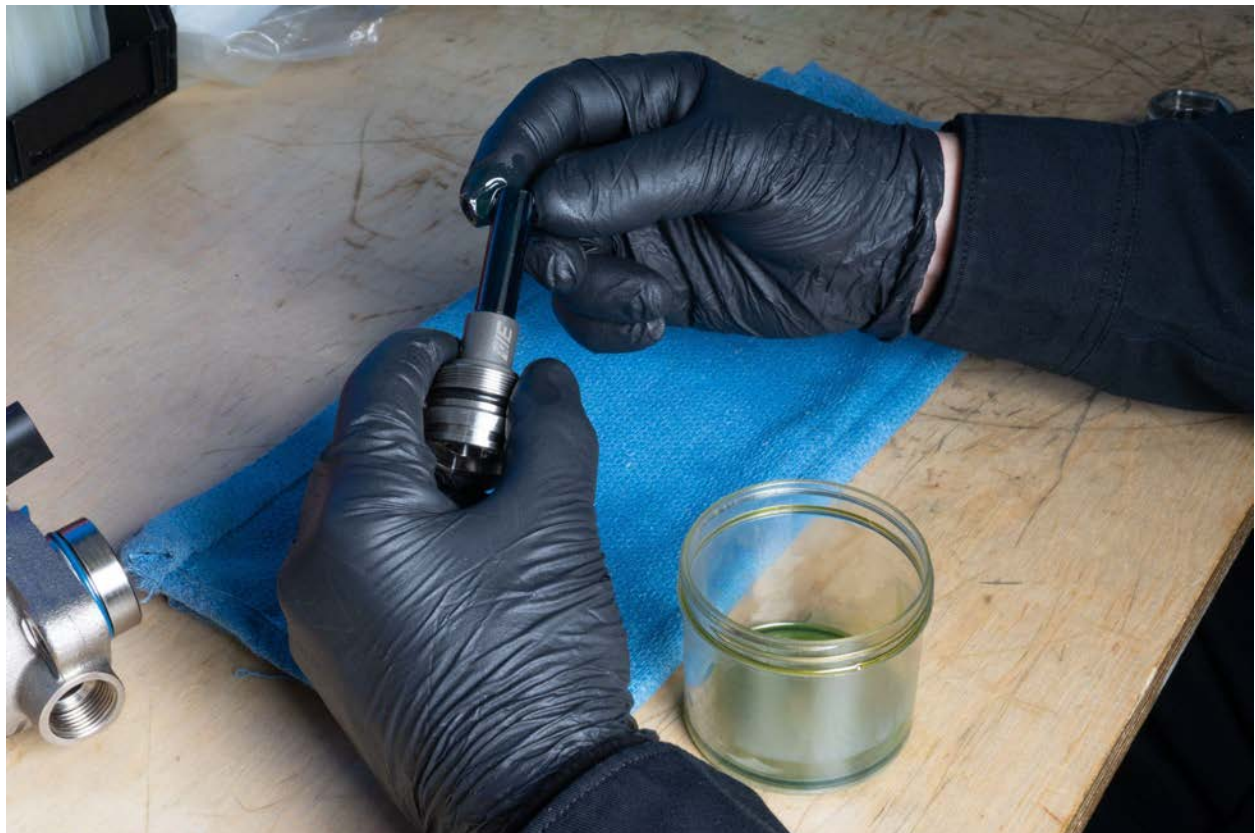




Apply generous coat of clean engine oil to the pin.

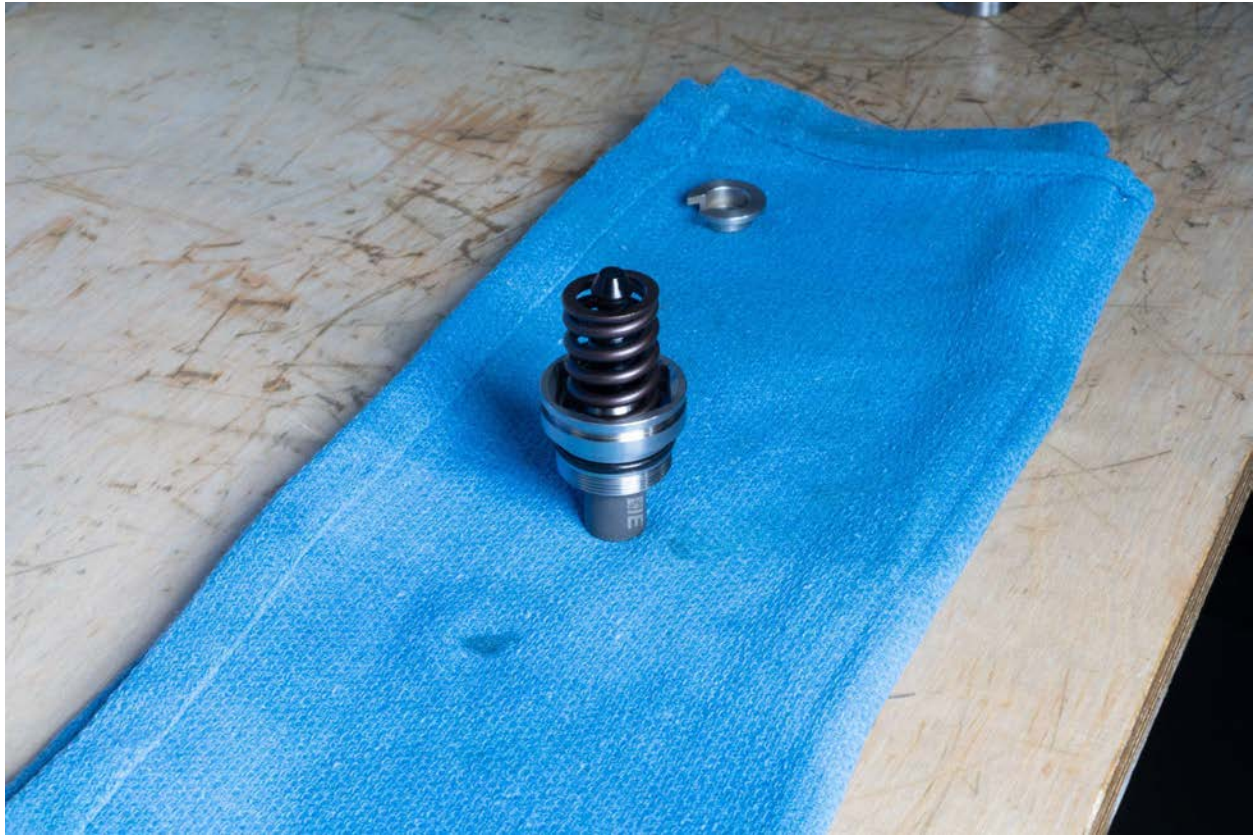


Insert pin small end first through the small side of the cylinder. Push until the tip of the pin has clearance to insert the retainer. **NEVER** install the opposite direction or seal damage will occur.





Install factory spring over the pin seated on the assembly body.



Line up the notch on the retainer with the groove on the pin and press down on the spring to install the retainer. Bottom of retainer should sit flush on the spring.







Hand thread the complete IE internal assembly into the HPFP pump. Using IE HPFP assembly tool, torque the internal assembly to 45ft-lb.









Install the HPFP back into the vehicle in reverse order. Once all fittings and lines have been attached and tightened, start the vehicle to verify there are no fuel leaks. Congratulations, your HPFP is now upgraded.



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