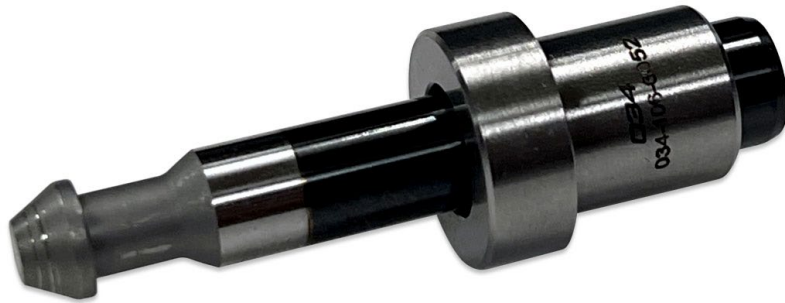


3.0T Fuel Pump Piston Upgrade



034Motorsport's Fuel Pump Piston Upgrade is a relatively easy way to yield up to 50% flow increase over the factory HPFP. With a DLC coated piston and cylinder, these high-precision machined internals allow for reduced friction and increased performance, and will meet the demands of E85 optimized tunes

Installation Spiciness Rating: MILD



Installation of your 034Motorsport Fuel Pump piston upgrade is a straightforward process that will take approximately 30 minutes to complete.

Supplied Parts:

- Fuel pump piston
- Fuel pump o-ring

Tools Needed:

- Crescent Wrench
- 10mm Wrench
- T30 Torx Bit
- Flathead Screwdriver
- Pliers
- Trim removal tool

About This Guide

This Install Guide documents the installation process on a B8 Audi S4. There may be minor differences depending on specific vehicle, market, options, etc.

Getting Started

Confirm you have received all the parts included with your purchase by reading the complete guide, if there are missing components, please contact:

customerservice@034motorsport.com

Install Steps

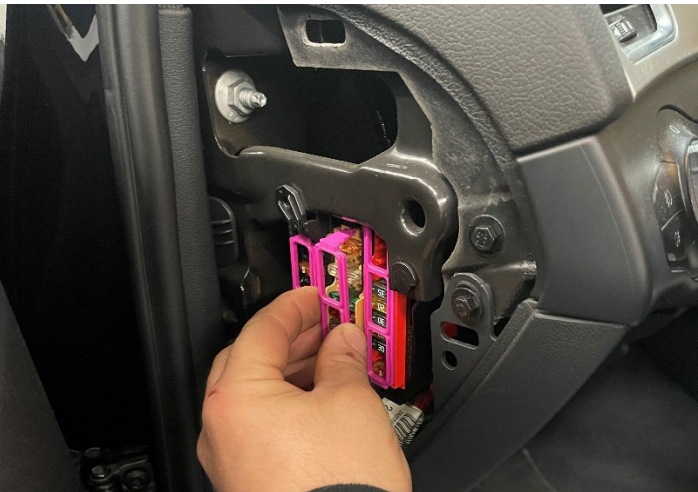
Step 1

Remove the trim panel to access the fuse box.



Step 2

Remove the center pink fuse cover.



Step 3

Locate the fuel pump fuse and remove it.

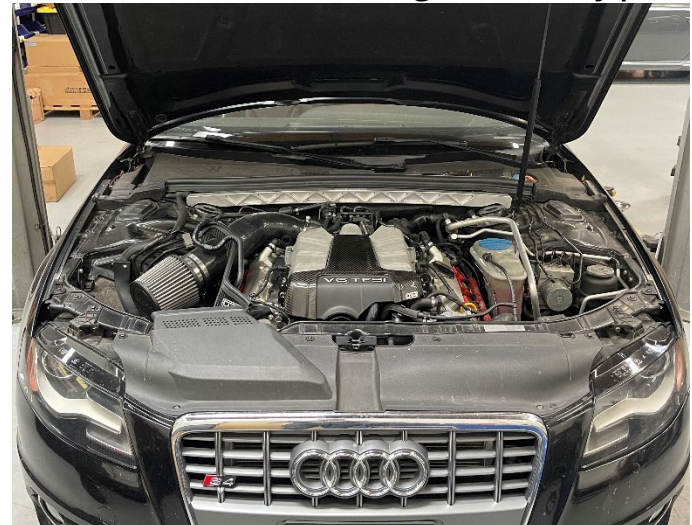


Step 4

Start and run the car until it stalls.

Step 5

Open the hood and remove the engine cover by pulling it up.



Step 6

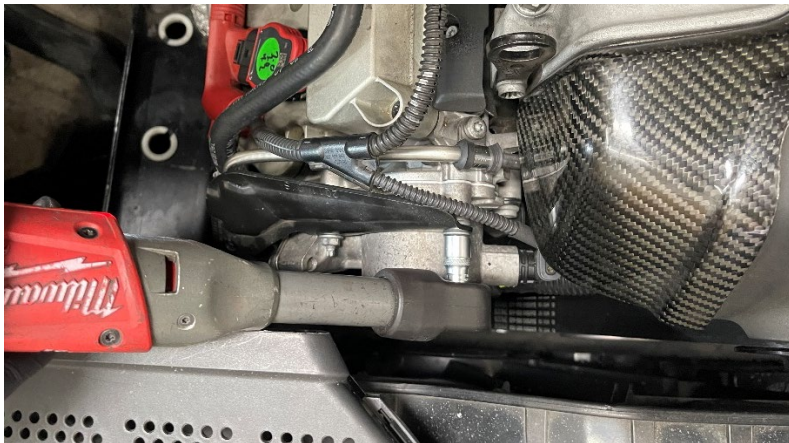
Using a screwdriver, loosen the hose clamp connecting the intake hose to the throttle body. Be mindful of the fuel line running over the intake.

We had to remove the [034 intake](#), the oem unit will be similar



Step 7

Using a 10mm socket, remove the nuts securing the metal bracket near the head.



Step 8

Lay down some rags to soak up any fuel. Using a set of pliers, reposition the hose clamp away from the fuel line attachment to the HPFP and disconnect the hose.



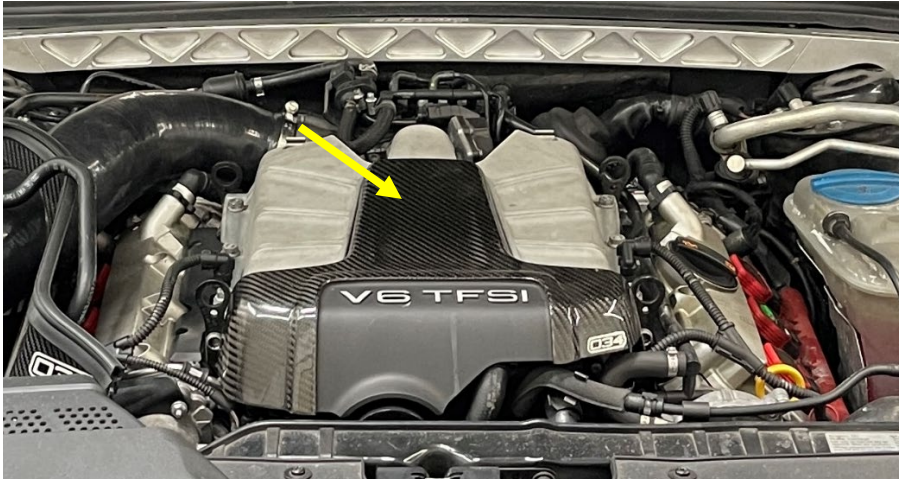
Step 9

Using a wrench, disconnect and separate the hardline fitting from the HPFP.



Step 10

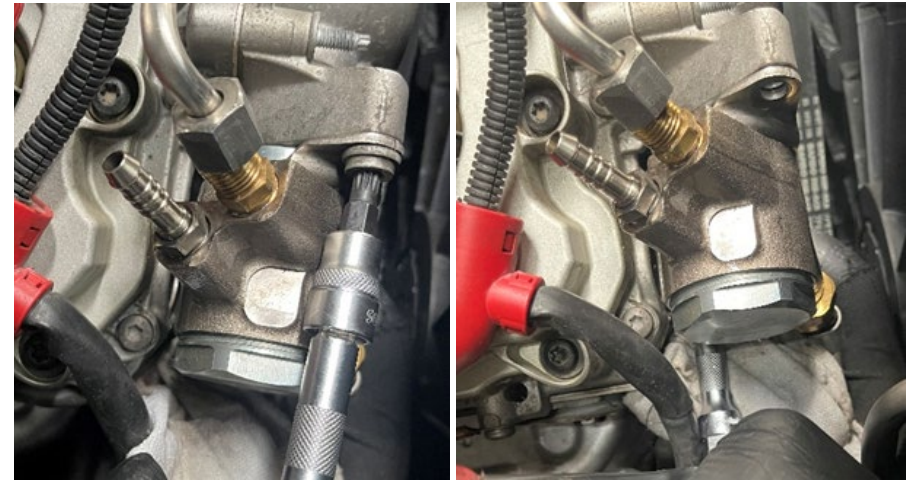
Remove the engine cover by pulling up firmly.

**Step 11**

Using a T30 Torx it, remove the bolt from the fuel line bracket.

**Step 12**

Using an 8mm triple-square bit, remove the 2 bolts securing the HPFP to its housing and extract the pump.

**Step 13**

Remove the connectors at the fuel pressure sensor and HPFP.



Step 14

Using a flathead, carefully remove the spring retainer from the fuel pump piston.



Step 15



Step 16

Extract the piston from the fuel pump.

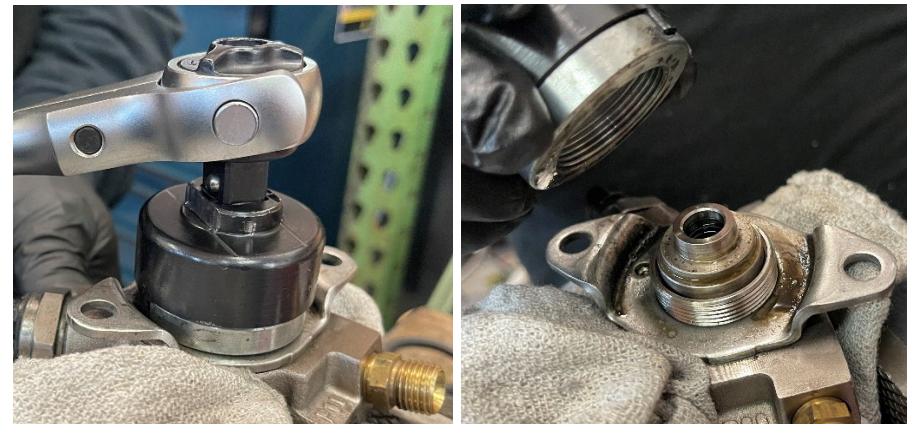


Step 17

Put the pump in a vice; protect the pump with a rag.

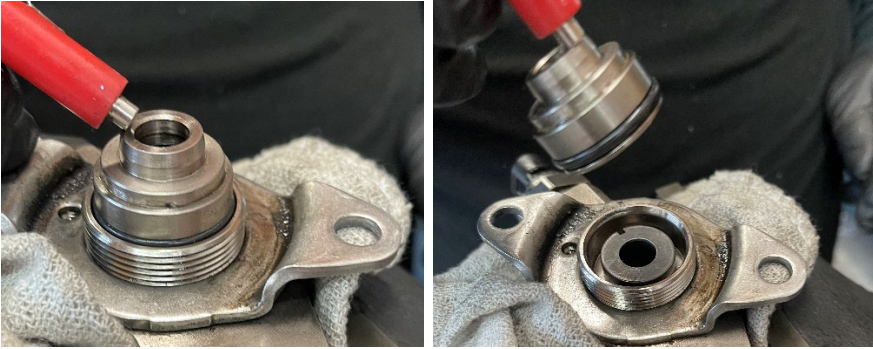
Step 18

Using a specialty tool, remove the retaining nut.



Step 19

Use a magnet to remove the upper sleeve.



Step 20

Use a magnet to remove the piston guide.



Step 21

Swap in the 034 piston guide.



Step 22

Insert the new piston into the HPFP assembly.



Step 23

Replace the upper sleeve over the piston.



Step 24

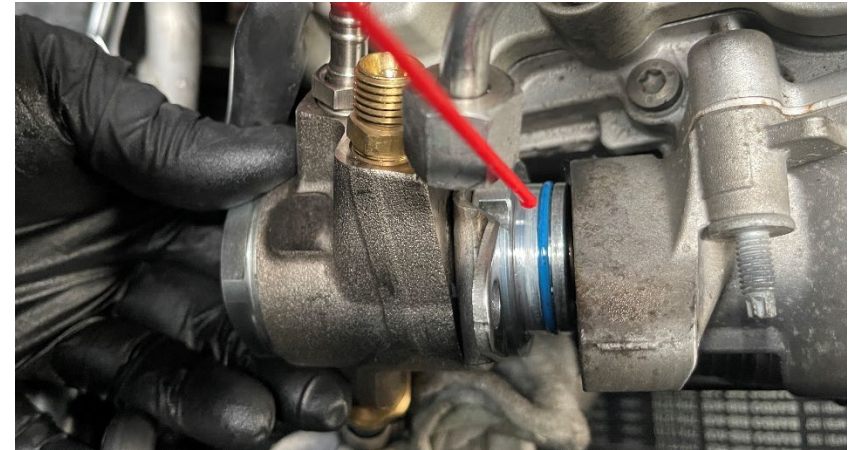
Reinstall the retaining nut on the HPFP assembly.

**Step 25**

Plug the connectors in at the fuel pressure sensor and HPFP.

**Step 26**

Lubricate the o-ring interface before reinstalling back into the housing to prevent damage.

**Step 27**

Using an 8mm triple-square bit, reinstall the 2 bolts securing the HPFP to its housing. Torque to 20Nm.

**Step 28**

Reconnect the hardline to the fuel pump.

Step 29

Reattach the fuel hose and secure it with the hose clamp.

Step 30

Use a 10mm socket to reinstall the bracket.

**Step 31**

Reinstall fuse into the fuse box.

Step 32

Put the fuse cover back into place.

**Step 33**

Reinstall the trim panel.

Step 34

Turn the ignition into the ready position to let the in-tank pump prime the HPFP. Repeat 2-3 times.

Step 35

Start your car and check for fuel leaks.

Step 36

You are done! Enjoy your new 034 upgraded fueling system.

