

3.0T Fuel Pump Piston Upgrade**034 MOTOR SPORT**

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 piston sleeve

Tools Needed:

- Crescent Wrench
- 10mm Wrench
- 8mm Triple-square bit
- 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

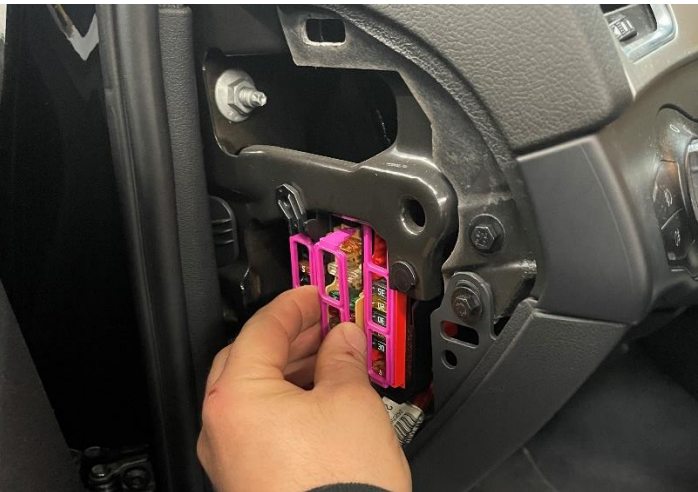
Step 1

Remove the trim panel to access the fuse box.



Step 2

Remove the pink fuse cover.



Step 3

Locate the fuel pump fuse and remove it.

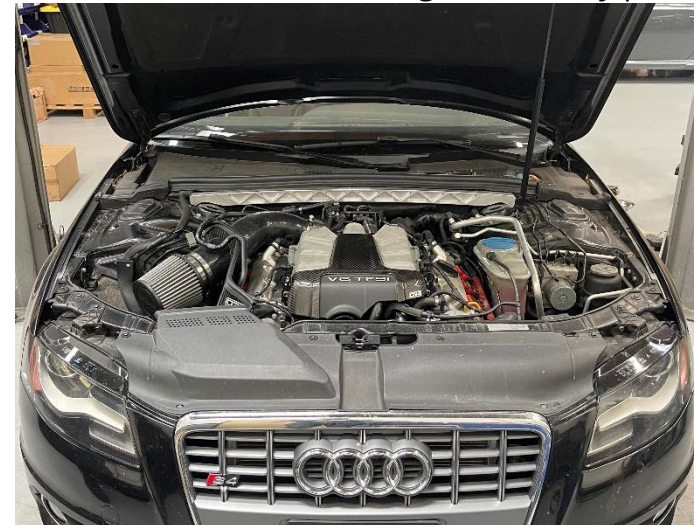


Step 4

To relieve the pressure, start and run the car until it dies.

Step 5

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



Step 6

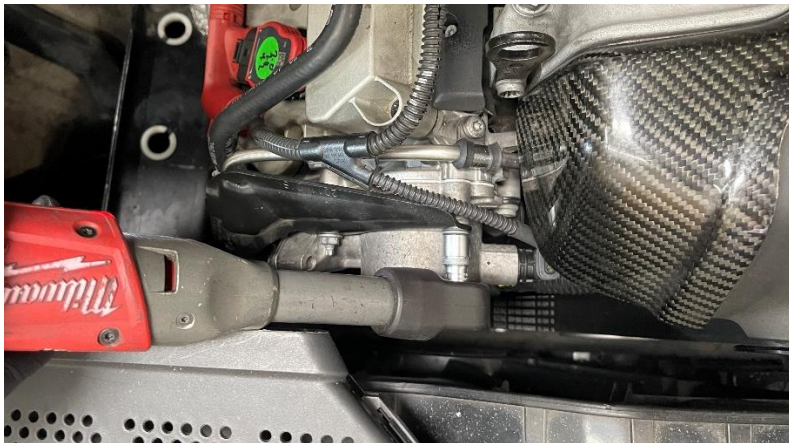
Using a flathead, loosen the hose clamp connecting the intake hose to the throttle body. Be mindful of the fuel line running over the intake.

We had to remove the [034 intake](#), the oem unit should be fairly 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 fuel. Using a set of pliers, remove the hose clamp from the fuel line attached 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 clips from the fuel pressure sensor and HPFP.



Step 14

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



Step 15

Remove the fuel pump spring.



Step 16

Extract the piston from the fuel pump.



Step 17

Put the pump in a vice, protecting the pump with a rag.

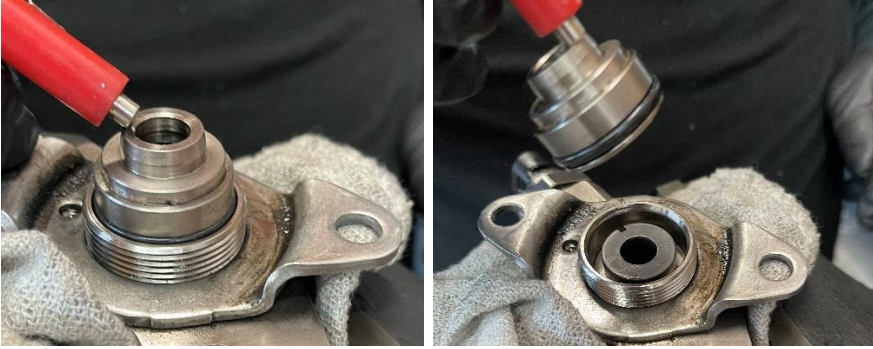
Step 18

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 lower sleeve.



Step 21

Swap in the 034 lower piston sleeve.



Step 22

Insert the new piston into the HPFP assembly.



Step 23

Reinstall the factory upper sleeve over the piston.



Step 24

Reinstall the retaining nut to the HPFP assembly.

**Step 25**

Pull the piston shaft up as far as it will travel.

Step 26

Install the spring over the piston shaft.

**Step 27**

Reinstall the spring retainer

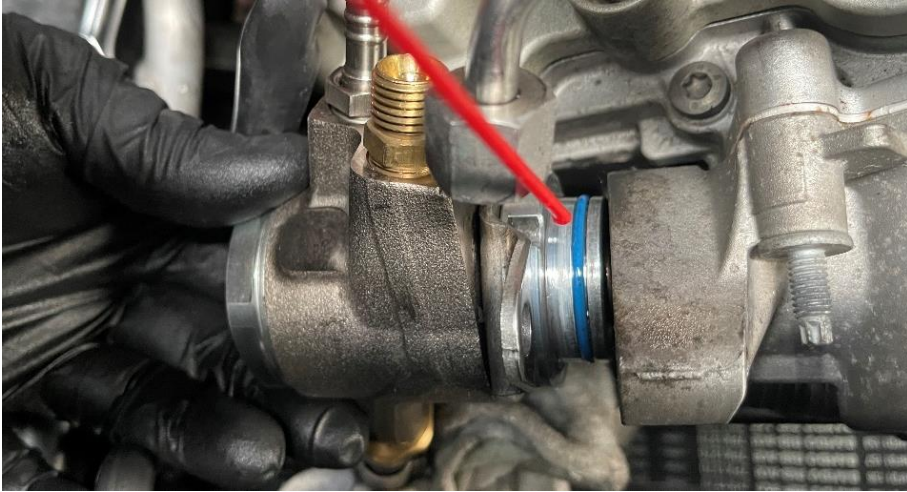
**Step 28**

Plug the electrical connectors back to the fuel pressure sensor and HPFP.



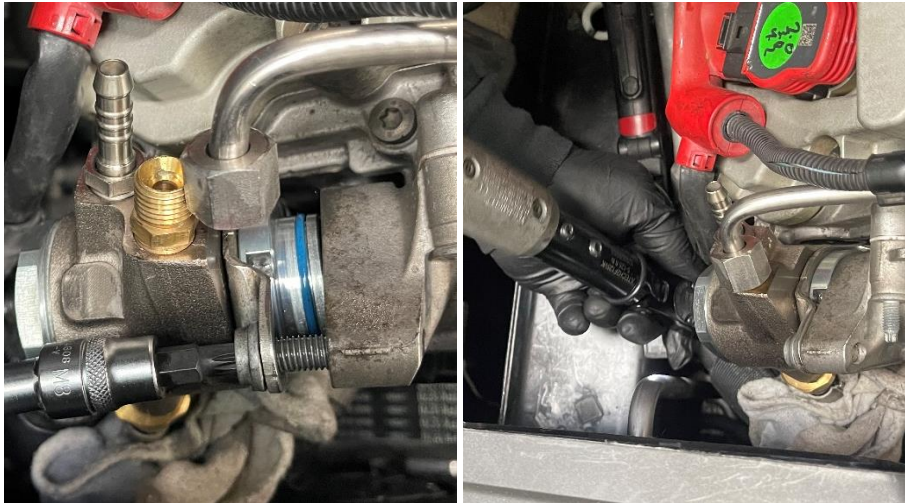
Step 29

Lubricate the o-ring interface before reinstalling back into the housing



Step 30

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



Step 31

Reconnect the hardline to the fuel pump. **Torque to 27Nm.**



Step 32

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



Step 33

Use a 10mm socket to reinstall bracket.



Step 34

Reinstall fuse into the fuse box.

Step 35

Put the fuse cover back into place.



Step 36

Put the trim panel back over the fuse box.



Step 34

Turn the ignition into the ready position to let the HPFP prime itself 2-3 times.

Step 35

Start your car and check for fuel leaks.

Step 36

You are done! Enjoy your new 034 upgrade to your fueling system.

