

**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:

- 10mm Triple Square bit
- T35 Torx Bit
- 19mm Wrench
- 17mm Wrench
- 15mm Wrench
- 7mm Socket
- Flathead Screwdriver
- Channel-lock Pliers

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:

About This Guide

This Install Guide documents the installation process on an 8J Audi TTRS. There may be minor differences depending on specific vehicle, market, options, etc.

Install Steps

Step 1

Disconnect the negative terminal from the battery in the trunk.

Step 2

During this installation, keep the doors closed and the key out of the ignition to prevent the fuel pump from priming.



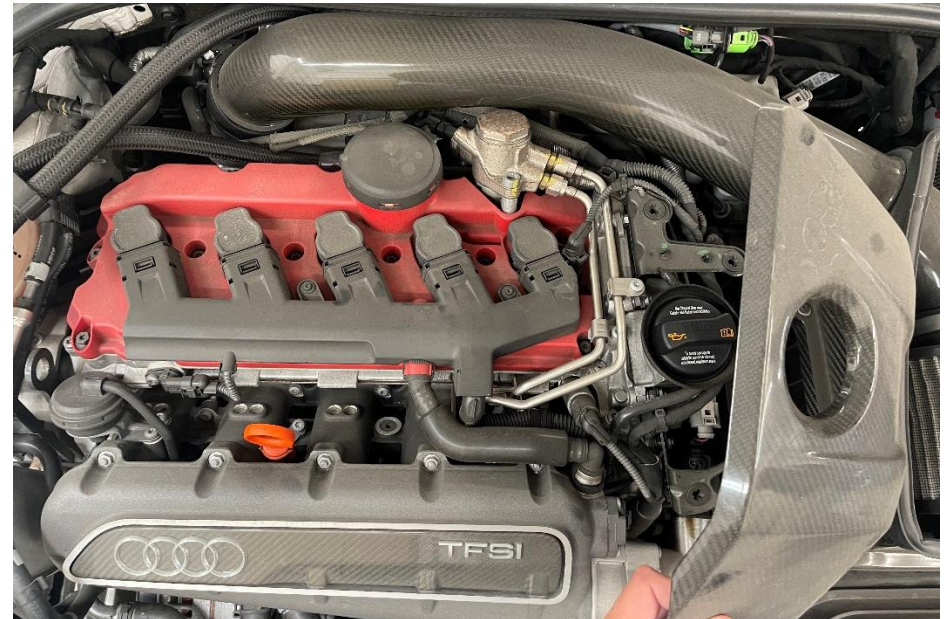
Step 3

Open the gas door and unscrew the fuel cover cap to relieve pressure from the fuel system.



Step 4

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



Step 5

Using a T25 Torx, removed the hardware connecting the upper airbox to the lower airbox.

**Step 6**

Pull the tabs on the fuse box cover and remove to access the remaining airbox hardware.

**Step 7**

Loosen and move the hose clamp from the intake tube using a set of channel-lock pliers.

**Step 8**

Using a 7mm socket or flathead screwdriver, loosen the hose clamp from the intake tube.



Step 9

Remove the intake from the engine bay.



Step 10

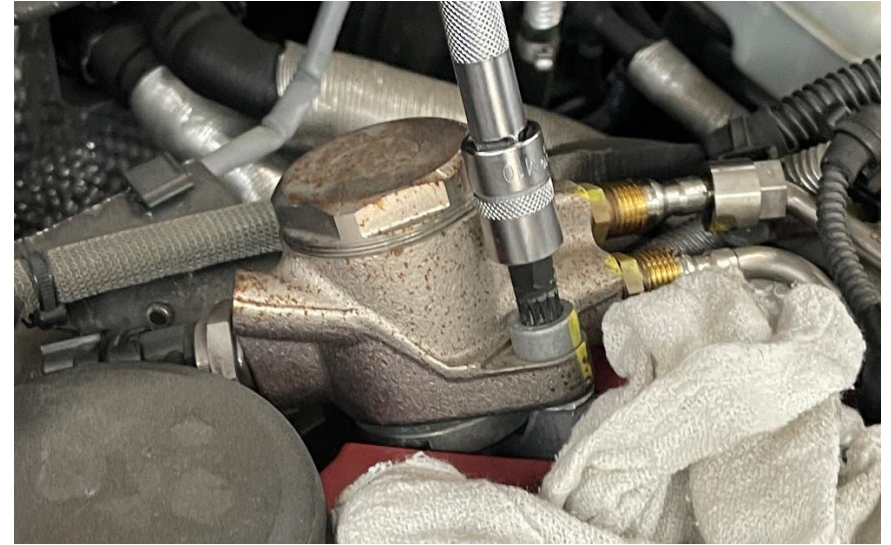
Using a 15mm wrench and a 17mm wrench, disconnect and separate the hardline fittings from the HPFP.

***Beware of fuel spraying out. Wear eye protection and put a rag or two down.**



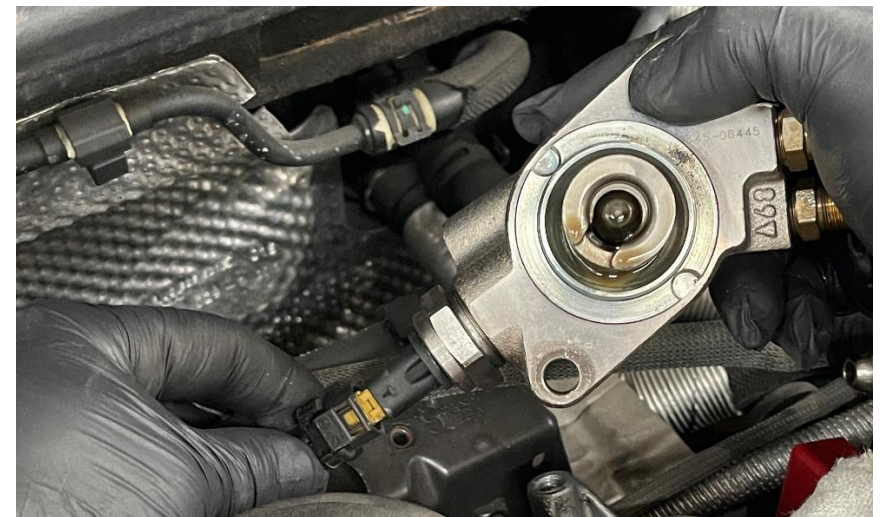
Step 11

Using a 10mm triple-square bit, remove the 2 bolts securing the HPFP to its housing and extract the pump.



Step 12

Remove the electrical connector from the HPFP.



Step 13

With the fuel pump housing out of the car, use a flathead screwdriver to remove the spring retainer.

**Step 14**

Remove the fuel pump spring.

**Step 15**

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

Step 16

Using a specialty tool and the appropriate wrench, remove the retaining nut.

**Step 17**

Extract the piston and upper sleeve from the fuel pump.



Step 18

Remove the lower sleeve from the fuel pump.



Step 19

Prep the 034 fuel pump piston with the provided sleeve and insert it into the HPFP.



Step 20

Reinstall the factory upper sleeve over the piston.



Step 21

Reinstall the retaining nut to the HPFP assembly.



Step 22

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

Step 23

Install the spring over the piston shaft.



Step 24

Reinstall the spring retainer



Step 25

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



Step 26

Using a 10mm triple square bit, reinstall the HPFP.

Torque to 20Nm.



Step 27

Reconnect the harness into the HPFP.

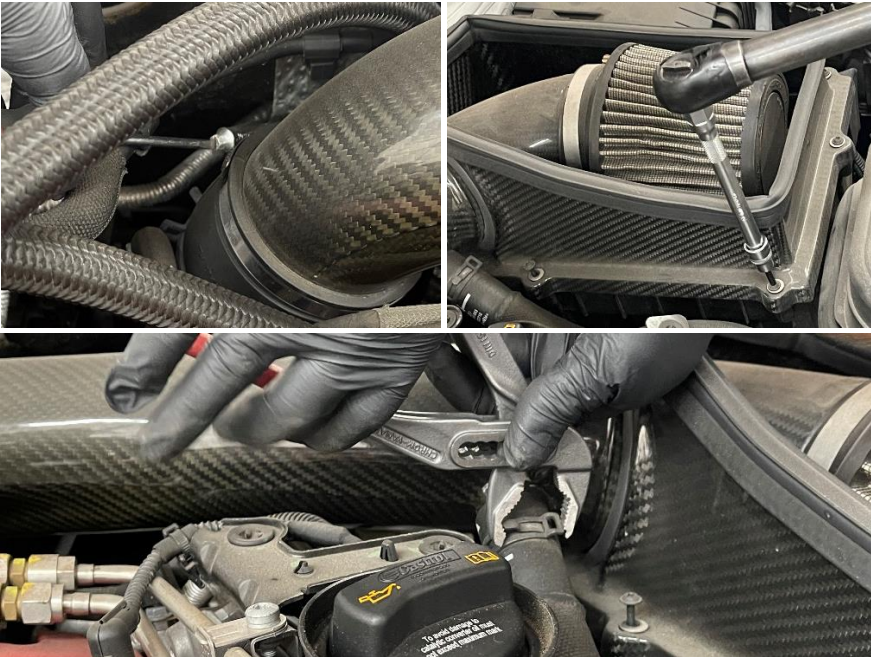


Step 28

Reinstall the fuel hardlines. **Torque both to 27Nm.**

Step 29

Reinstall the intake tube and upper airbox.



Step 29

Reinstall the engine cover and fuse box cover.



Step 30

Screw in the fuel filler cap and close the door.



Step 31

Reconnect the negative battery terminal.

Step 32

You are done! Enjoy the increased fuel flow.

