

**2.5T 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:**

- 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:

[customerservice@034motorsport.com](mailto:customerservice@034motorsport.com)

### 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.



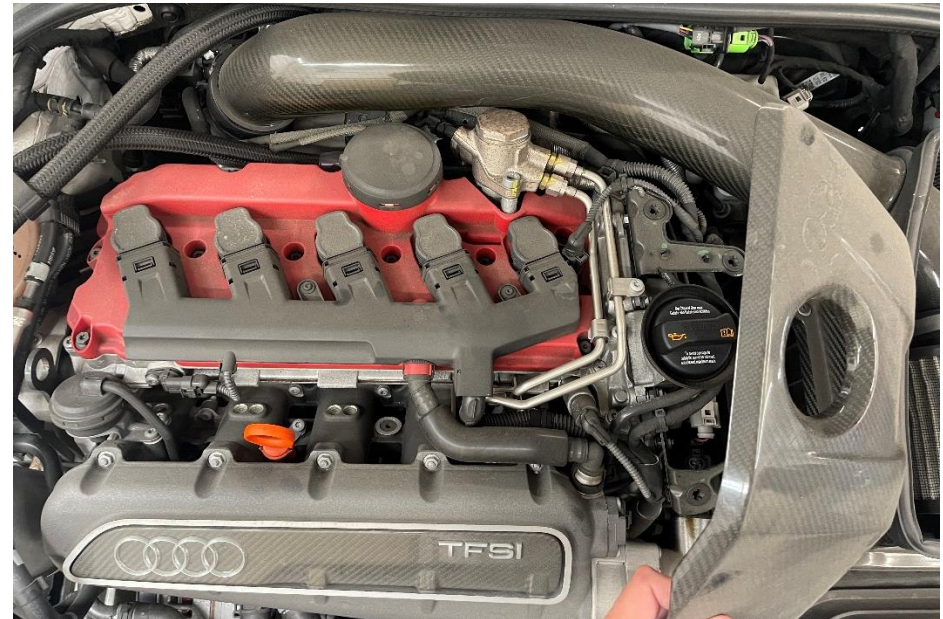
#### **Step 3**

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

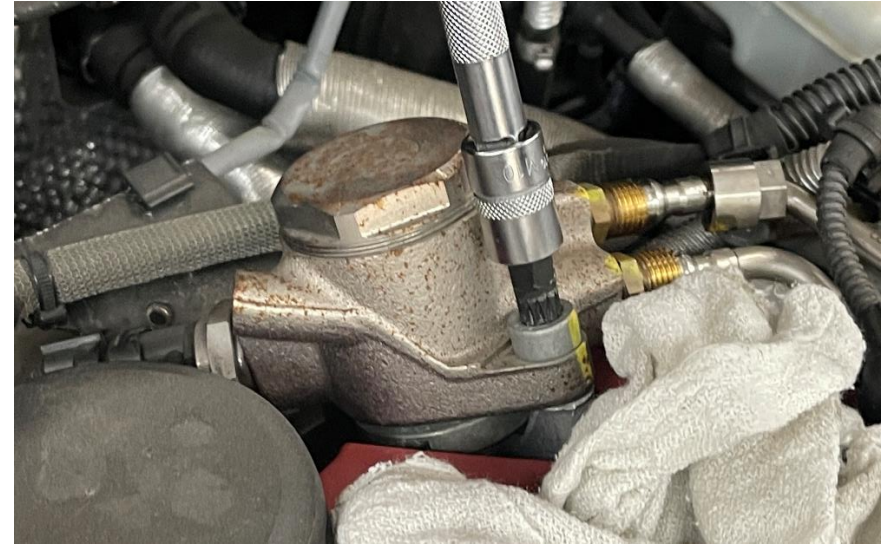
Using a 15mm wrench and a 17mm wrench, disconnect and separate the hardline fittings from the HPFP.

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



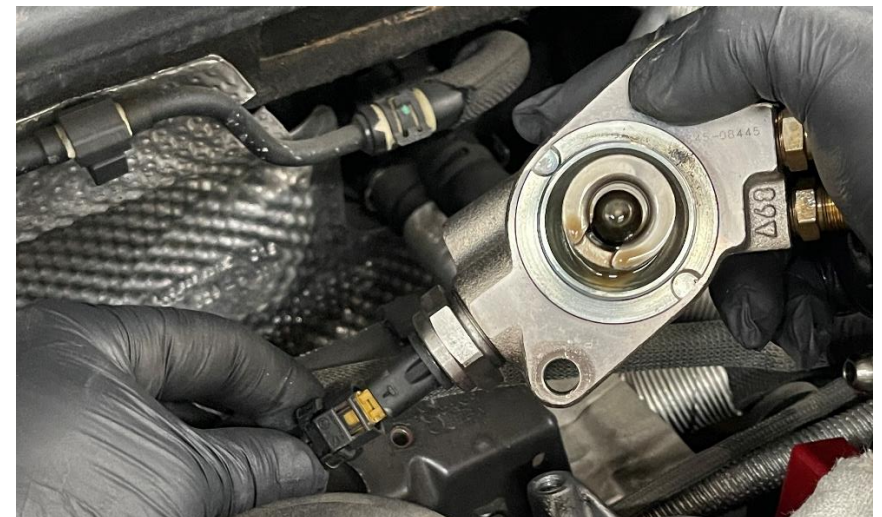
#### Step 11

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.

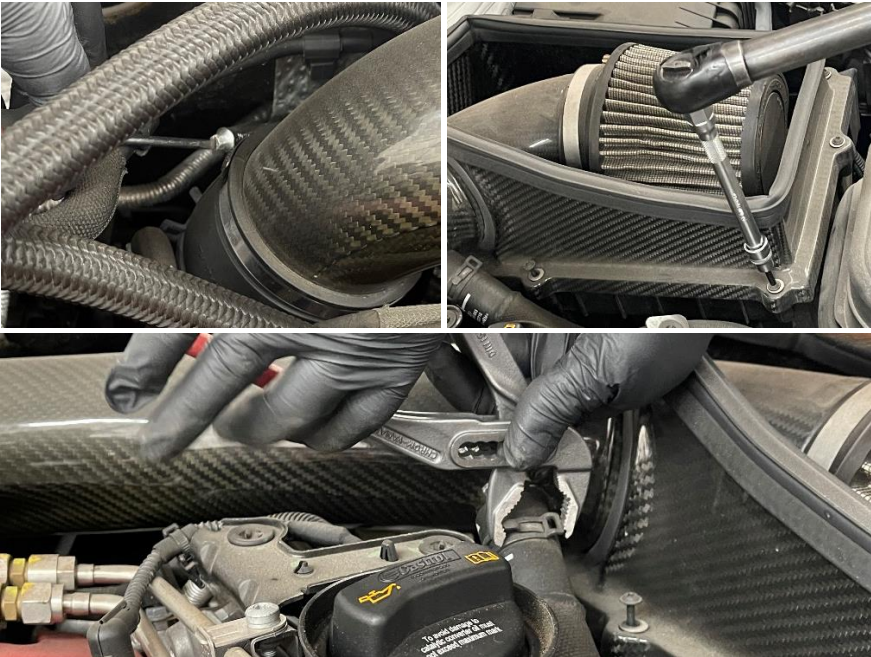


#### Step 28

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.

