



2.0L TDI CP4 Disaster Kit Installation Instructions

(CBEA/CJAA, CKRA, CRUA/CVCA)

Foreword:

During the installation of this kit your engine's high pressure fuel system will be open and exposed to some degree, it is important to be mindful of this at all points during the installation process. Use caps and/or plugs to cover any fuel system openings during the install process, cleanliness is number one priority. Before you begin installation, use compressed air or brake clean to blow out all hoses and fittings included with the kit and visually inspect to ensure that all hoses and fittings (including the bypass block) are free of any particles or debris that may have entered during shipping and handling.

Kit Contents:

- 1x WPI Bypass Block
- 6x Fuel Injection Hose Clamps
- 2x M5x30mm Socket Head Cap Screws
- 1x Large O-ring
- 1x Small O-ring
- 1x Hose standoff (small cut piece of fuel hose)
- 3x Zip ties
- 1x Stainless Barb T fitting
- 1x Inline Fuel Filter
- Fuel injection Hose

NOTE: Previous versions of this kit included a threaded o-ring sealing plug that was used to plug the cross drilling on the bypass block. All kits purchased on or after 9/20/2025 will no longer include this and will instead have an updated bypass block that uses a pressed in, permanent sealing plug that will come pre-installed in the block.

Basic Install Summary:

If at any point you are confused about which line is which and what goes where, look at the back of the CP4 where the rubber lines attach. The inlet/outlet ports on the CP4 are labeled with cast in triangles on the pump body indicating flow direction (Triangle pointing into the pump body is supply, triangle pointing out of the pump body is return)

Follow the inlet (fuel supply) hose back to a convenient location between the vehicle's fuel filter and the pump and cut it for the stainless T fitting to feed the bypass block. Follow the return hose leaving the pump and cut it anywhere convenient (generally as close to the pump as possible) to install the filter with "inlet" facing the CP4 (flow direction arrow pointing away from CP4 on Deatschwerks filters).

That's the install summed up as simply as possible, regardless of application.

2.0L TDI Specific Instructions:

(Step by Step photos of a CBEA/CJAA Engine)

1. Remove engine cover and blow everything off with compressed air.

We recommend cleaning the area on the CP4 around the metering solenoid with brake clean to ensure any remaining debris is removed from the outside of the pump before removing the metering valve.

2. Use a 90 or 180 degree pick to push the lock tab down on the connector of the cp4 metering solenoid and remove the connector



3. Use a T25 torx bit to remove the 2 bolts holding the metering solenoid in the pump.

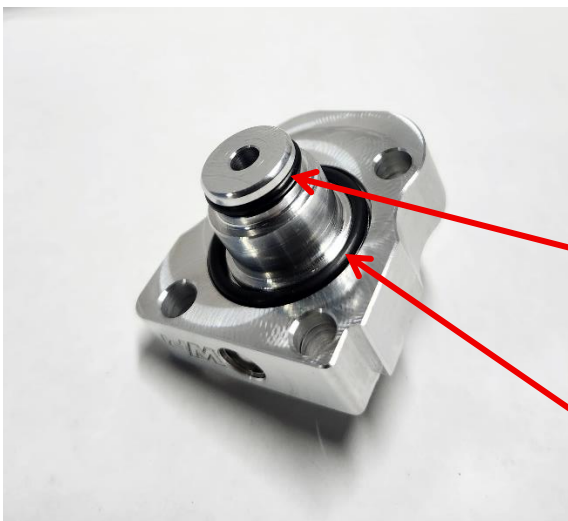
Pack the port in the pump with clean paper towel or shop rag to ensure no debris enters the pump.

Use a razor blade, brake clean, and a clean rag to carefully clean the entire machined area on the top of the pump. When done, remove the paper towel, ensuring not to drop any debris it may have caught into the pump when doing so.



4. Install the included length of fuel line onto the barb on the bypass block and secure with a hose clamp.

Tighten hose clamp in approximately same position as pictured below to clear other fuel lines. Then install the small O ring on the tip of the bypass block. Apply a couple dabs of grease to the large O ring groove on the bottom of the block and set the O ring into the groove.



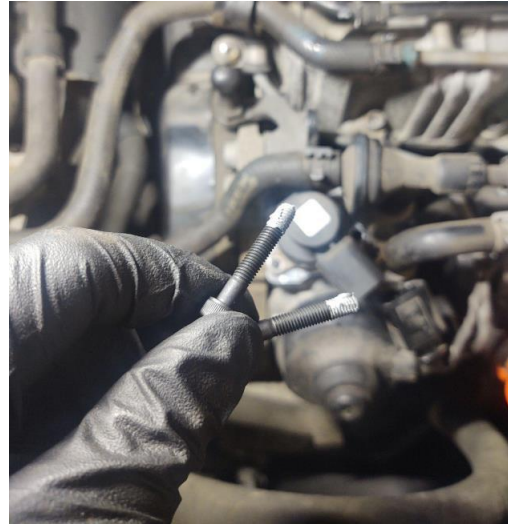
Grease dabs in large O-ring groove

Small O-ring

Large O-ring

5. If necessary, use needle nose pliers to rotate the hose clamp on the return fitting of the pump to clear the hose clamp on the block.

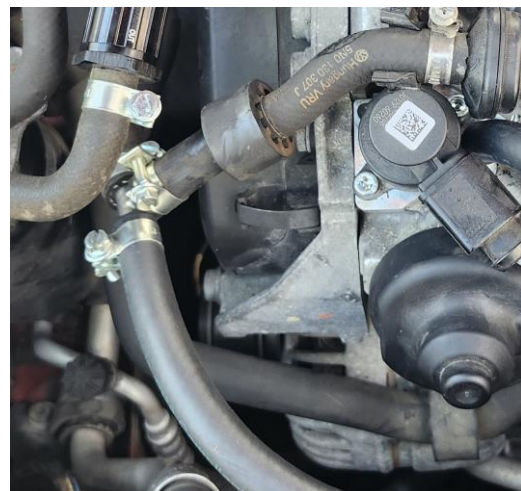
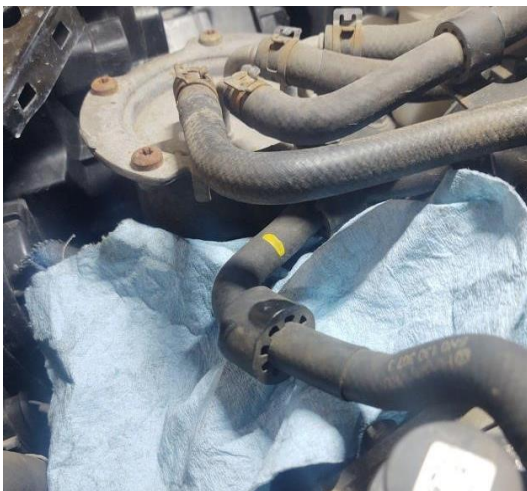
Apply anti seize to the threads of the two M5 socket head cap screws. Then install the metering solenoid into the block and drop the bolts into their holes. Fish everything into place and tighten the two bolts with common sense. If your wrist isn't calibrated, 4nm is the recommended torque spec for these screws.



6. Cut the fuel feed line in the middle of the straight section marked with the yellow line (photo below). Make sure to place enough rags underneath to catch the fuel that will run out.

Place a hose clamp on each side of the freshly cut hose and install the barb T fitting. Attach the hose running to the block to the remaining barb with another hose clamp and orient the T fitting so that all hoses are sitting nicely.

Tighten clamps when satisfied with placements.



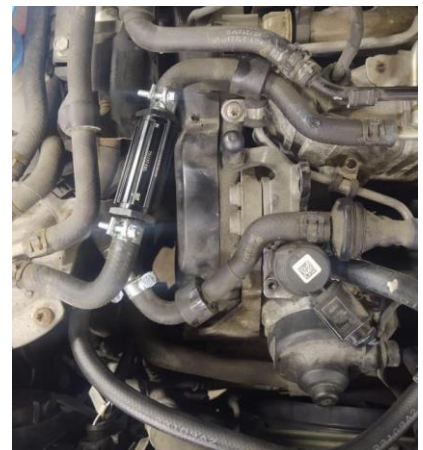
7. To secure the bypass block feed hose, insert the zip tie through the included hose standoff, loop the zip tie around the rubber AC line that runs in front of the CP4, and then back through the hose standoff. Then wrap the zip tie around the new rubber fuel line and close the zip tie loosely.

Gently pull the rubber fuel line away from the cp4 and guide the line into a comfortable bend between the metering valve and return hose. Ensure the section going to the T fitting is comfortably placed with slack to allow for engine movement. Tighten the zip tie securing it to the AC line when satisfied.

The hose feeding the bypass block should look something like this once you have tightened the zip ties.

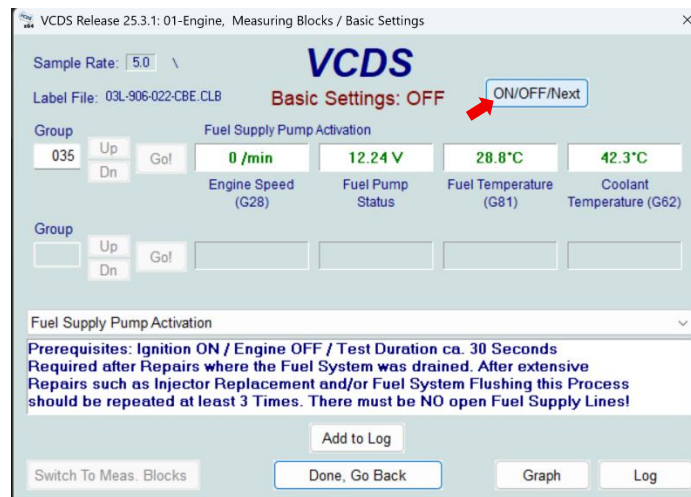
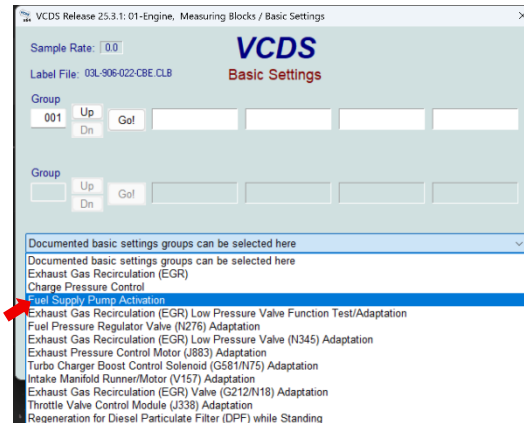
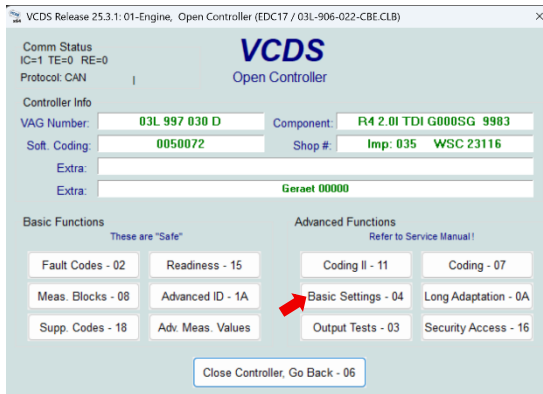


8. The return filter gets placed in the fuel return line. Cut 1.5" of hose from the middle of the straight section pictured below. Install the included inline fuel filter with hose clamps. Inlet of the filter should point towards the cp4, outlet should point towards the oem fuel filter (flow arrow pointing away from the CP4 on Deatschwerks filters).



9. Use VCDS or another capable scan tool to run the lift pump for 20-30 seconds.

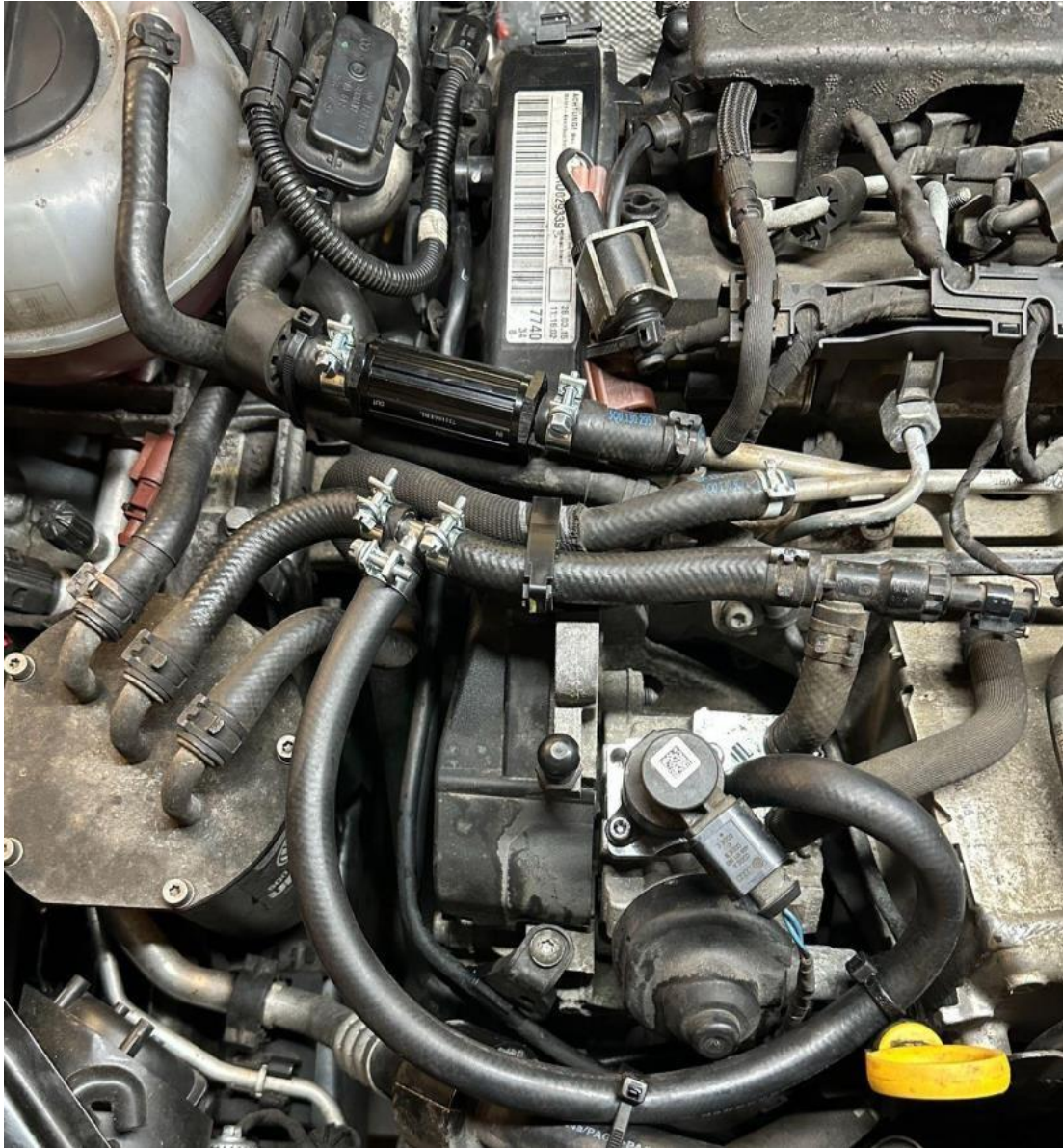
Start the car and check for leaks.



10. If you wish to use the factory engine cover, trim the cover as necessary to clear the fuel line feeding the bypass block (the bypass block feed line may need to be rotated underneath the AC line in order to clear the cover).



CRUA/CVCA Finished Installation Photo



CKRA Finished Installation Photo

Courtesy of eugene89us of TDIClub



CBEA/CJAA Finished Installation Photo

