



315100 – COBB Fuel Pressure Regulator Kit

2008+ Subaru STI



Congratulations on your purchase of the COBB Tuning Fuel Pressure Regulator Kit for your 2008+ Subaru STI. The following instructions will assist you through your installation process. Please read them first **BEFORE** beginning the install and familiarize yourself with the steps and tools needed. If you feel that you cannot properly perform this installation, we **HIGHLY** recommend you take the vehicle to a qualified and experienced automotive technician.

IMPORTANT! Installing this kit will require custom tuning. Please consult with a COBB authorized ProTuner in your area.

Part List

- 1 x Fuel Pressure Regulator
- 1 x Long Assembled Fuel Line (Feed/Upper Line)
- 1 x Medium Assembled Fuel Line (Return/Lower Line)
- 1 x Small Assembled Fuel Line (Return/Lower Line)
- 1 x Spacer
- 1 x M8x35 Flange Bolt
- 1 x M8 Flange Nut
- 2 x Fuel Injection Hose Clamps
- 1 x Small Zip Tie

Tools Needed

- 5/16" or 8mm Fuel Line Disconnect Tool (Available at Professional Tool Sources)
- 7mm Nut Driver
- Flat Head Screwdriver
- 10mm Wrench
- 12mm Wrench
- 10mm Socket
- 12mm Socket
- Ratchet
- Pliers
- Diagonal Cutters or Scissors
- Safety Glasses
- Rags
- Silicone Spray or Similar

Important! Before removing your fuel line, make sure to discharge existing fuel pressure from the system. Failure to do so can result in fire and burns!

Removal of Stock Fuel Lines

1. If possible, discharge the existing fuel pressure from the system. One potential method is to disable the fuel pump by pulling the fuse on the driver's side of the engine bay (consult the underside of the lid for correct fuse location), then attempt to start the vehicle. Consult the factory service manual for OEM methods.



2. Disconnect the vehicle's negative battery terminal with a 10mm wrench or socket. Ensure no alternate sources of spark or flame are present.
3. Prepare spill catch rags in case of fuel spills during OEM line removal.
4. Remove the factory fuel lines and fuel pressure regulator (FPR) from the fuel rails and feed/return lines using 5/16" or 8mm quick-disconnect fuel line tool (I.E. AST #8028). Removal can be tricky, so please take your time. When done properly, the connectors will easily slide off.



- Remove the fuel line retainer from the metal bracket using a pair of pliers to pinch the tabs and push it through.



- Remove the manifold pressure reference from the OEM FPR, and remove the assembly from the engine bay. The factory FPR, dampers and hose assembly is no longer needed. Be careful as excess fuel may continue to drain from the assembly.

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Installation of COBB Fuel Pressure Regulator Kit

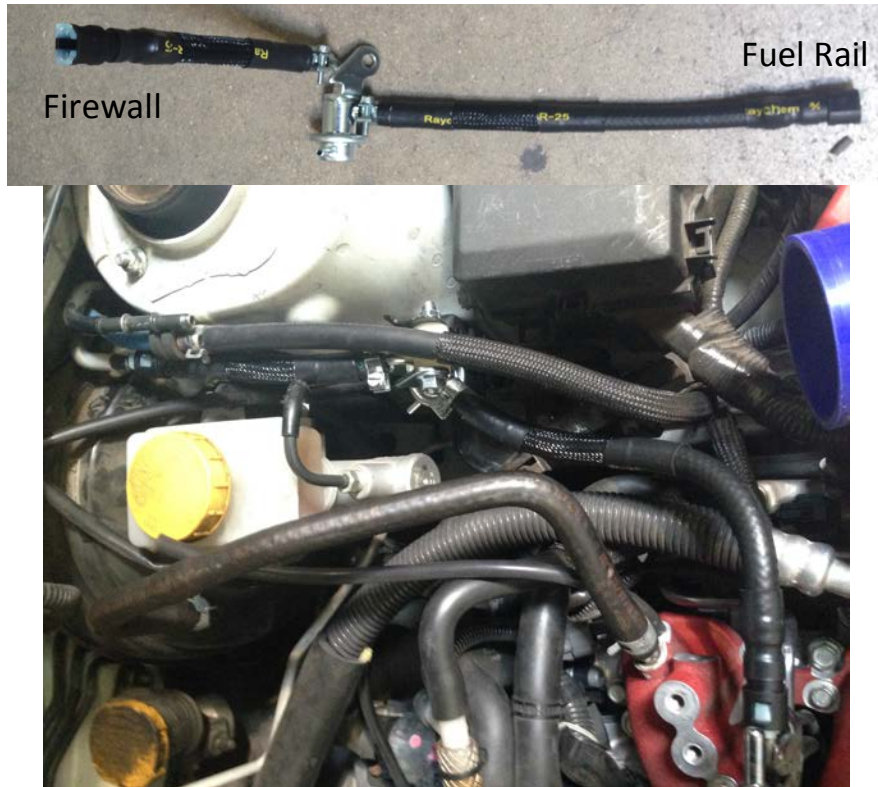
1. Inspect the new components included with the COBB kit. If anything appears out of place, please contact COBB immediately and do not proceed with the installation.
2. Assemble the return line by placing the fuel injection hose clamp and fuel line over the open regulator barb and secure the fuel injection clamp using a 7mm nut driver or flat head screwdriver.



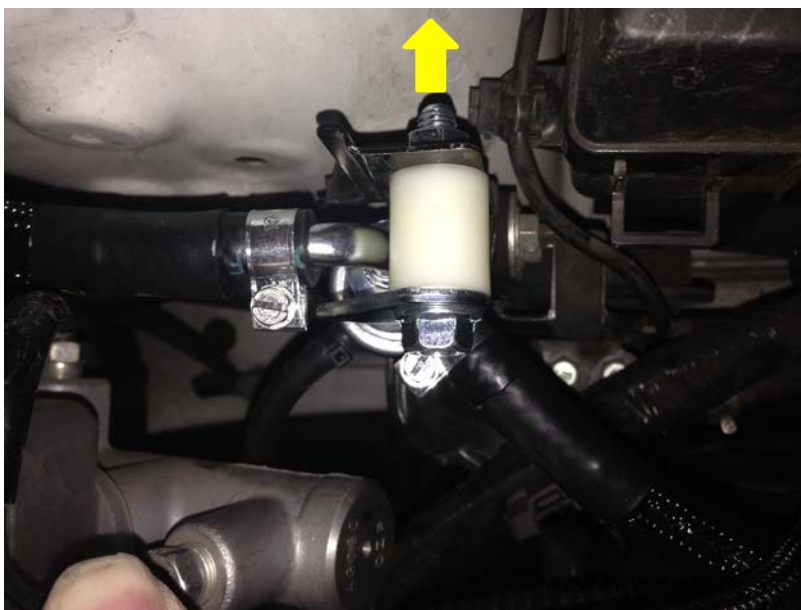
3. To install the new fuel lines, remove the inner white cap from the connector with a pinching motion. Place the clip over the OEM fuel rail or line, "big side" first. Lubricate the new connector or line using silicone spray or similar, then gently slide the connector onto the fuel line until it clicks firmly in place. Note: DO NOT FORCE THE FITTINGS! Proper installation will require very little effort. The black connector and white clip must be oriented in the same direction for the connector to seat. If the connector and metal line are not properly aligned, damage to the connector's inner seals can occur.



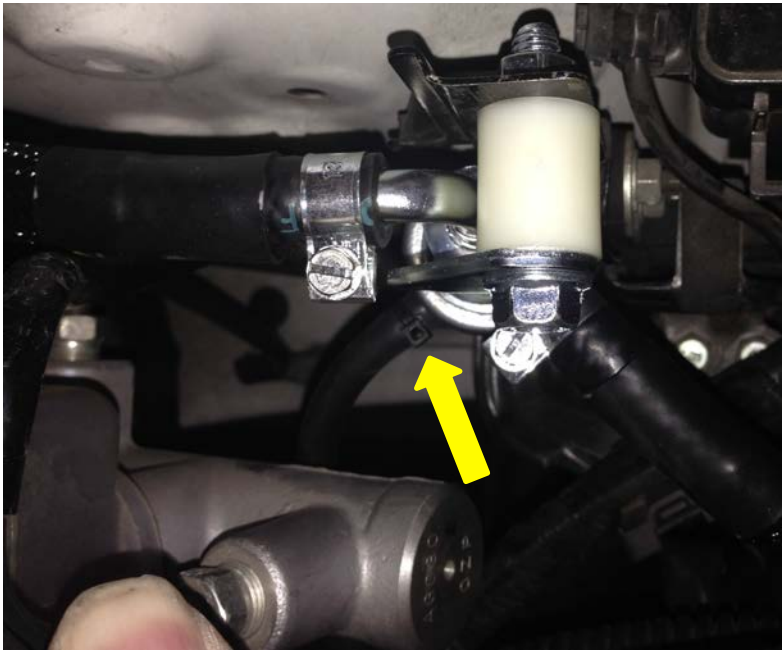
- Return Line Orientation – The longer section connects to the fuel rails, and the shorter section connects to the firewall. The regulator should be oriented so the vacuum port side is on the bottom and the bracket is sticking up.



- Secure the regulator to the bracket that held the plastic line retainer as shown using two 12mm wrenches or a 12mm wrench and socket. You may need to slightly bend the bracket towards the driver's side fender if the regulator is touching the bracket at the bottom of the regulator.



6. Connect the manifold reference hose to the fuel pressure regulator. Secure the hose to the new FPR using the included Zip-Tie or similar clamp to ensure a solid connection.



7. Feed Line Orientation – Install the feed line with the sheath covered section going towards the fuel rails.



8. Once installation is completed, reconnect the negative battery terminal and prime the fuel system by cycling the key between the “OFF” and “RUN” positions at 3-second intervals. 4 or 5 cycles will be adequate to re-pressurize the system. **CAREFULLY INSPECT FOR LEAKS AND IMMEDIATELY CORRECT IF ANY ARE FOUND!**

9. Start the vehicle and again inspect for any leaking or abnormalities. Halt immediately if any fuel leaks or other issues are found!

10. Installation of the Fuel Pressure Regulator Kit is now complete! **IMPORTANT! Retuning is HIGHLY suggested to account for the newly corrected fuel system under cruising conditions. Please consult with a COBB authorized Pro-Tuner in your area.** We recommend inspecting for any signs of leaking or component deterioration periodically for safety and performance purposes. Enjoy your new COBB Tuning Fuel Pressure Regulator Kit!