

INSTALLATION GUIDE



Blue Spring Kit

2003–2007 Ford 6.0L Powerstroke





DISCLAIMER

1) By installing this product onto your vehicle, you assume all risk and liability associated with its use.

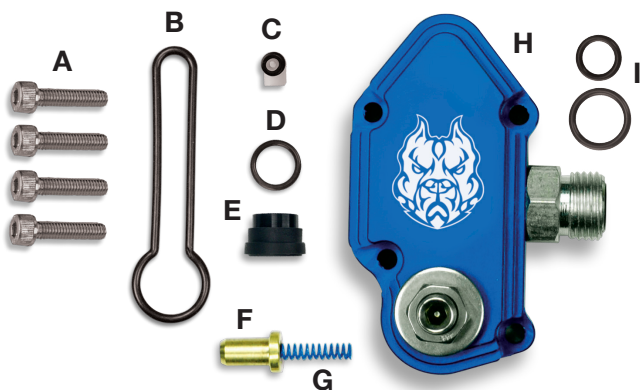
2) It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering inoperative of any part of the design affecting emissions or safety on motor vehicles used on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle (or possibly higher depending on changes in the law). All civil penalties and fines for removing your vehicle's emissions equipment are the sole responsibility of the end user.

3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.

4) Sinister Mfg Company, Inc. is not responsible for misuse of its products. By installing this product, you release Sinister Mfg Company, Inc. of any and all liability associated with its use.

5) Depending on where you live, restrictions may apply. Check all applicable laws before installing or using!

6) The purchaser and end user releases, indemnifies, discharges and holds harmless Sinister Mfg Company, Inc. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. Sinister Mfg Company, Inc. will not be liable for any direct, indirect, consequential, punitive, statutory, or incidental damages or fines caused by the use or installation of this product.



PART:	DESCRIPTION:	QTY:
A	M5 Socket Head Cap Bolts	4
B	Regulator Cover Seal	1
C	Air Bleed Fitting	1
D	Spring Seat Sleeve O-Ring	1
E	Spring Seat Sleeve	1
F	Blue Spring Seat	1
G	Blue Spring	1
H	Regulator Cover (adjustable shown)	1
I	Threaded Fitting Seals*	2

RECOMMENDED TOOLS:

- 8mm Socket or Nut Driver
- 11mm Deep Socket
- 1/2" Extension and Ratchet
- 3/4", 13/16", 7/8" Open End Wrenches
- T-27 Torx Bit
- 5/32" Allen Wrench
- Adjustable Pliers
- Blue Medium Strength Thread Lock Fluid

**These o-rings are extra replacement seals and not required for initial installation.*

IMPORTANT: READ ALL INSTRUCTIONS PRIOR TO INSTALL. Prior to installation, please compare the parts that you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation.

BLUE SPRING KIT PARTS SCHEMATIC





CAUTION !!! Never work on a hot vehicle. Serious injury in the form of burns can result if the vehicle has been in use. Allow vehicle to cool prior to installation. Always wear eye protection when working on or under any vehicle.

Note: Block requires some disassembly of the fuel system. Take proper precaution to contain any spilt fuel. As a precaution it is good practice to disconnect any batteries on the vehicle before performing any work.

Note: Adjustable fuel block requires some way to check fuel pressure. Fuel filter cap with pressure gauge is available from Sinister Diesel.

- 1** Using pliers, disconnect the top front line off of the degas tank. (Image 1)
- 2** Using an 8mm socket or nut driver loosen the front clamp on the air intake. Remove the air filter and front section of intake plumbing. Image shows the parts removed. (Image 2)
- 3** Using an 11mm deep socket loosen both of the driver side charge pipe clamps. Disconnect the charge pipe from the intake elbow and rotate it up out of the way. (Image 3)
- 4** Using a ½" ratchet and extension remove the fuel filter cap and filter. Remove all excess fuel from the fuel bowl with pneumatic vacuum if available. (Image 4)
- 5** Place rag under the fuel return line that is routed out of the factory fuel regulator cover. Using 7/8" and 13/16" combination wrenches disconnect the return line from the factory fuel regulator. (Image 5)

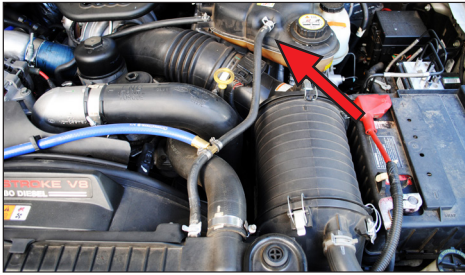


IMAGE 1

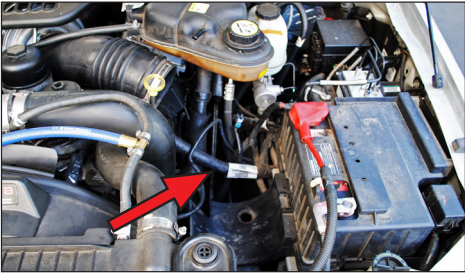


IMAGE 2



IMAGE 3

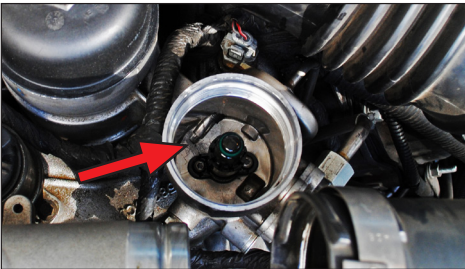


IMAGE 4

Note: Placing a zip tie on the line will keep the nut from falling way down on the tube.

6 Place a rag under the fuel regulator cover. Using a T-27 torx bit remove the factory fuel regulator cover. Note the cover is under spring tension and some fuel will leak out when removing the cover. There are small parts contained behind the cover be careful not to lose any parts. (Image 6)

7 Place the new O-ring into the Sinister diesel fuel block. (Image 7)

8 Replace all parts on the regulator with new supplied parts, including the blue spring. (Image 8)

9 Using a 5/32" allen wrench, install the Sinister Diesel Fuel block with the provided hardware. We recommend using some thread locker when installing new hardware. (Image 9)



IMAGE 5



IMAGE 6

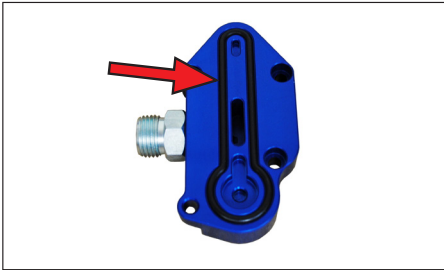


IMAGE 7

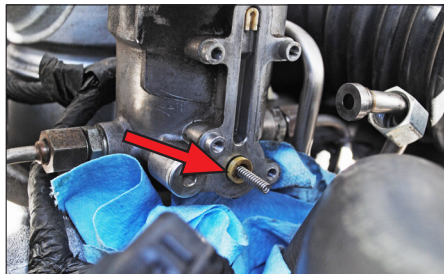


IMAGE 8

10 Using $\frac{3}{4}$ " and $\frac{13}{16}$ " combination wrenches, reconnect the fuel return line to the Sinister Diesel Fuel Block. The adjustable fuel block is preset to be close to proper fuel pressure. (Image 10)

11 Reinstall the fuel filter and fuel filter cap. Reconnect the batteries and turn the key to the on position a few times to cycle fuel into the system. Do not run the engine at this time. If block is adjustable set pressure 55-68 psi and check to make sure there aren't any fuel leaks. (Image 10)

12 Reconnect the driver side charge pipe and tighten both of the clamps. If you have a factory plastic charge pipe using a ratchet strap will help to seat it onto the intake elbow. (Image 11)



IMAGE 9



IMAGE 10



IMAGE 11

13 Reinstall the intake plumbing and filter. Tighten the hose clamp to secure the intake tube. Be sure to reconnect the MAF sensor and filter flow sensor. (Image 12)

14 Reconnect the hose to the degas bottle. (Image 13)

Note: Step 15 is for the adjustable fuel block.

15 With the engine running do a final check and setting of the fuel pressure. Pressure should be between 55-68 psi.

Installation of your Sinister Diesel Blue Spring Kit is now complete.

*** E.O. identification label is required in passing the Smog Check inspection. The E.O. identification label must be placed on or near the device in the engine compartment.**

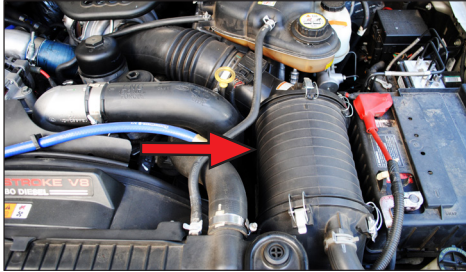


IMAGE 12



IMAGE 13



IMAGE 14

Note: As an option Sinister Diesel offers a fuel filter cap with fuel pressure gauge for checking fuel pressure periodically. (Image 14)