

SINISTER DIESEL



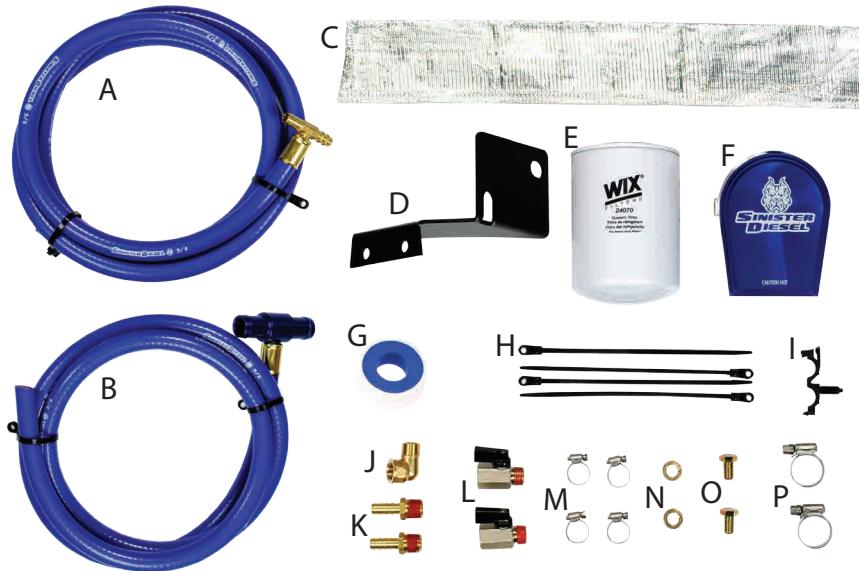
**2003-2009 FORD
6.0L POWERSTROKE
E-SERIES COOLANT FILTER**



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- 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.
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6.0L Powerstroke E-Series Coolant Filter



PACKING LIST:

Part# QTY. Description

A	1	Coolant Return Line
B	1	Coolant Supply Line
C	1	Heat Sheath
D	1	Van Mounting Bracket
E	1	Coolant Filter
F	1	Coolant Filter Block
G	1	Seal Tape
H	4	Zip Ties
I	1	Push Pin Retaining Clip
J	1	3/8" NPT 90°
K	2	3/8" NPT Barbed Hose Adapter
L	2	3/8" NPT Ball Valve
M	4	Size 5 Hose Clamps
N	2	3/8" Lock Washers
O	2	3/8" X 5/8" Bolts
P	2	Size 10 Hose Clamps



Read all instructions prior to install.

Note: 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.



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: Installation of the Sinister Manufacturing Company Coolant filter system requires disassembly of coolant lines, resulting in coolant loss. We suggest draining the coolant before you start.

Recommended Tools: 8 & 19mm Socket, 11/16 open end wrench, large adjustable wrench, 8mm nut driver, regular screw driver, utility knife, diagonal cutters

Step 1: Remove the cap on the degas tank. Drain coolant from the drain valve located at the bottom rear of the radiator until the degas tank is empty or until coolant is completely drained to replenish the system with fresh coolant. (Image 1)



Image 1

Step 2: Using an 8mm socket, remove the screw that secures the AC line to the plastic fan box. (Image 2)



Image 2

Step 3: Pull the AC line back out of the way to gain access to the heater hose. Using diagonal cutters, cut the factory hose clamp that secures a flow restrictor in the hose. (Image 3)



Image 3

Step 4: Using a sharp utility knife, cut the heater hose right above the flow restrictor. (Image 4)



Image 4

Step 5: Remove the lower part of the heater hose from the fire wall by pinching the quick release tabs and pulling forward on the hose.



Image 5

Step 6: With the hose out, remove the flow restrictor and cut another $\frac{1}{2}$ " off the hose to create room for the barbed T-fitting. Rinse any sand out of the coolant line and reinstall it. (Image 5)

Step 7: Using either a marker or tape, mark the opposite end of the silicone hose with the blue T on it. This will allow you to identify each line during the installation.



Image 6

Step 8: Install the hose with the blue barbed T-fitting onto the heater hose. Point the blue silicone line so that it is extending out toward the front of the vehicle. Secure the fitting with the size 10 hose clamps. (Image 6)

Step 9: Install the longer silicone line with the 3/8" brass T to the coolant return line on the coolant degas tank. (Image 7)



Image 7

Step 10: Route the silicone line along the wireway and secure it using the provided plastic push-pin clip and zip tie. (Image 8)



Image 8

Step 11: Route the two silicone lines down the passenger side of the motor. Secure the lines to the wire harness that is clipped to the valve cover. (Image 9)

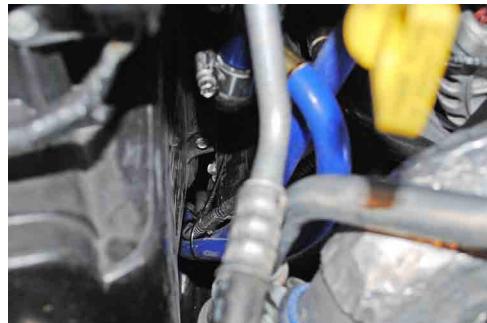


Image 9

Step 12: Using an 8mm socket, reinstall the screw to secure the AC line back in place. (Image 10)



Image 10

Step 13: Cover the coolant lines with the provided heat sheath to protect them from the exhaust manifold. Secure the lines and cover to the wire harness above the frame in the passenger front wheel well. Route the lines down along the passenger frame.

(Image 11)



Image 11

Step 14: Assemble the coolant filter block as shown in *image 12*. Be sure to use thread seal tape on any threads that don't have thread seal compound on them. Orient the valve knobs down so that they can easily be accessed from underneath the vehicle. (*Image 12*)



Image 12

Step 15: Using a 19mm socket, remove the two outside nuts on the passenger side cross member, install the black mounting bracket and reinstall the factory nuts. Using a 9/16" socket, install the assembled coolant filter block to the bracket using the supplied hardware. (*Image 13*)



Image 13

Step 16: Connect the coolant lines to the barbed fittings on the filter block. The supply line will go into the top of the block. This should be the line you marked earlier during the installation. The return line will go to the side of the filter block. Cut any excess silicone hose to limit slack in the coolant lines. Using a regular screwdriver, secure the lines with the provided hose clamps.



Image 14

Step 17: Lubricate the filter seal with a light coat of petroleum based lubricant. Install the filter onto the block hand tight. Make sure the valves are open by pointing the handle in line with the hose connected to it. In *image 14* the lower valve is in the closed position and the valve above it is in the open position.

Step 18: Refill the Coolant to factory specifications. Check the coolant level after your first test drive and first couple of drives thereafter.



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