

SINISTER DIESEL



07.5-12 6.7L CUMMINS
COOLANT FILTER KIT



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, exemplary, punitive, statutory, or incidental damages or fines caused by the use or installation of this product.

Sinister Diesel Coolant Filtration Kit



PACKING LIST:

<u>QTY.</u>	<u>Description</u>
1	Coolant Filtration Block
1	Coolant Filter Bracket (Black)
1	Coolant Filter
2	3/8" Hex Head Bolts
2	3/8" Lock Washers
2	Size 8 Hose Clamps
2	Coolant Lines With Fittings
2	1/4 Turn Ball Valves
1	Roll of Thread Seal Tape

The thread seal tape should be wrapped clock-wise when looking at the fitting from this angle.

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.

Step 1: Disconnect batteries.

Step 2: Drain coolant.

Step 3: Assemble coolant block. Use a 13/16" or Crescent wrench to install 1/4 turn ball valves to coolant filtration block. Also install 3/8" hose barb to the ball valve. 90° hose barb goes in the top of the coolant block as shown in Image. Be sure to apply thread seal tape in the correct direction to all of the threads and valves are in the off position. (Image 1)



Image 1

Step 2: Use a 13mm wrench to install the mounting plate behind electronic relay box on the passenger side frame rail. Re-use the factory hardware. (Image 2 and 3)



Image 2

Step 3: Install the assembled coolant filter block to the mounting plate. (Image 3)



Image 3

Step 4: Prefill the coolant filter and wet the O-ring with coolant, then install the filter to the coolant block.

(Image 3)

Step 5: (Under the hood) Remove the engine cover using a 8mm socket. There are four bolts holding the cover on.

(Image 4)

Step 6: (2 HR. Short Cut Step) If you have a 9/16" Crows Foot wrench you can skip steps 7-11. Use a 1/4" allen wrench to remove the allen plug next to the exhaust bypass valve. This is located on the passenger side of the valve cover. *(Image 5)*

Step 7: Use a 11mm socket to loosen the V-Band clamps. Remove the bolt in the middle underneath the cross over pipe holding it in place. Remove the cross over pipe. Keep the gaskets for use during installation. *(Image 6)*

Step 8: Use a 10mm wrench to remove the heat shield over the exhaust bypass valve and the heat shield tab under the bypass valve on the passenger side. *(Image 7 and 8)*

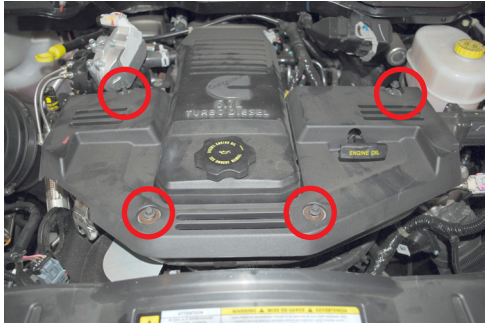


Image 4

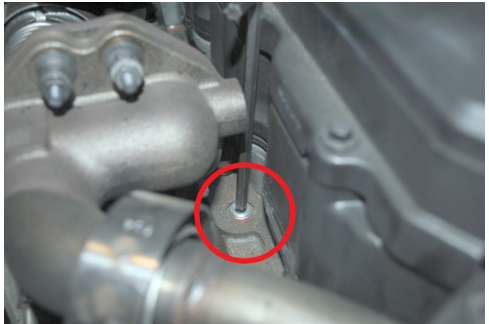


Image 5

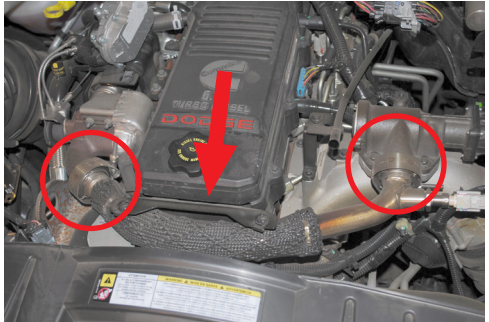


Image 6



Image 7



Image 8

Step 9: Remove the four bolts that mount the exhaust bypass valve and set the bypass valve aside. Leave it connected to the control cable as it will be reinstalled. Be sure to keep the gasket intact as it will need to be reused. (image 9)

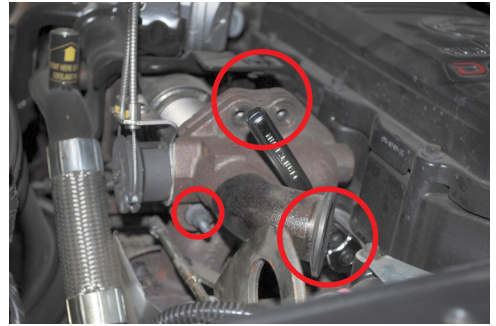


Image 9

Step 10: Use a 11mm socket to loosen the V-band clamp on the EGR cooler. Use a 15mm wrench to remove the two nuts holding the cast elbow in front of the EGR cooler. You may have to remove the exhaust bypass servo to loosen the V-band Clamp. (image 10 and 11)



Image 10

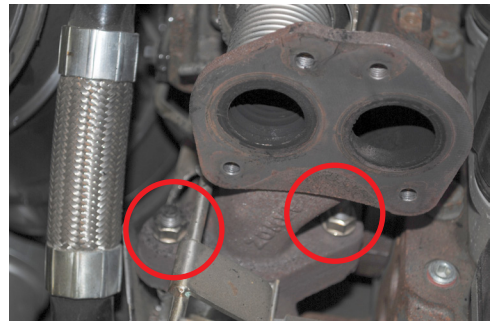


Image 11

Step 11: Plug the Exhaust hole with clean rag to keep debris out. Then using a 1/4" allen wrench remove the allen plug to the right of where the cast elbow was. (Image 12)

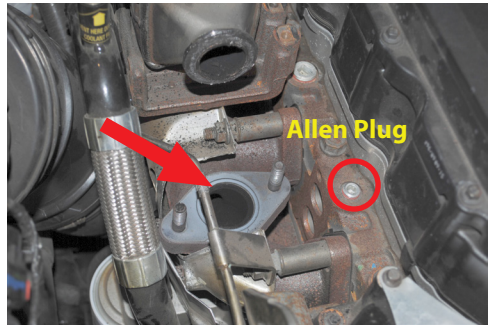


Image 12

Step 12: Use a 9/16" wrench to install the longer hose with the straight fitting into the hole in the head of the motor. Remember to apply thread seal tape properly to the threaded end. (Image 13)



Image 13

Step 13: Route the hose down the firewall and along the outside of the frame on the passenger side.



Image 14

Step 14: Cut the hose to length if necessary. Slide the hose over the 90° barb on the top of the coolant block. Secure hose with supplied hose clamp. **The placement of the line to the correct port is Necessary!!!** (image 14)

Step 15: Reverse steps 7 through 10.

Step 16: Refill the coolant until it fills to the top of the coolant vent hole. Place cap on radiator.

Step 17: Use a ½" wrench to install the line with the 90° fitting to the coolant vent hole. Be sure to apply thread seal tape on threads correctly. (image 15)

Step 18: Route the hose alongside of the other hose. Cut to length if necessary. Secure the hose on to the barb fitting on the side of the coolant block with supplied hose clamp. Open the ¼ turn valves at this time. **The placement of the line to the correct port is Necessary!!!** (image 16)

Step 19: Re-install the engine cover. (Image 4)

Step 20: Fill coolant system to manufacturer's specifications. After running the engine check for leaks.

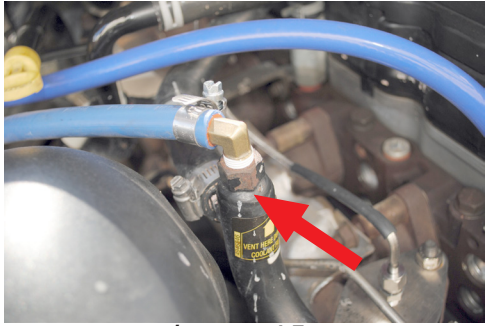


Image 15



Image 16



*This Page Is Intentionally
Left Blank*



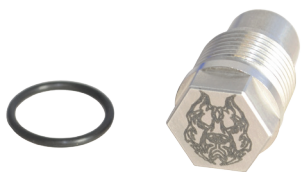
*This Page Is Intentionally
Left Blank*

SINISTER DIESEL

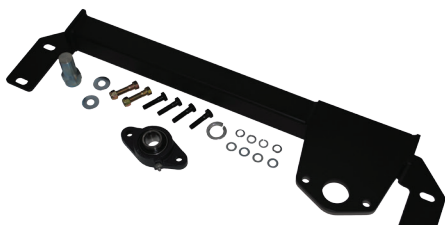


CENTURION SERIES EXHAUST

304 Stainless Steel • Tip Included • Available In 4" & 5"



Fuel Rail Race Valve



Steering Stabilizer



EGR Delete



Intake Elbow



2025 Opportunity Dr. Suite #7
Roseville CA, 95678
877-692-4110 - SinisterDiesel.com