



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 in-operative 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	11" Cable Ties	5
B	M10 -1.50 x 20 Hex Head Bolts	2
C	M10 Lock Washers	2
D	3/8"-16 x 5/8" Hex Head Bolts	2
E	3/8" Lock Washers	2
F	5/8"x5/8"x3/8" Blue Tee	1
G	3/8"x3/8"x3/8" Barbed Tee	1
H	Wix 24070 Coolant Filter	1
I	Sinister Diesel Filter Block	1
J	22" Heat Wrap	1
K	Duramax Coolant Filter bracket	1
L	3/8" NPT Ball Valves	2
M	#10 Hose Clamps	4
N	#5 Hose Clamps	2
O	52" Sinister Diesel Coolant Hose with Straight Fitting	1
P	36" Sinister Diesel Coolant Hose with 90° Fitting	1

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.



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.

IMPORTANT: Installation of the Sinister Diesel Coolant Filter Kit requires cutting of the coolant lines, resulting in coolant loss. Due to the coolant loss, we suggest draining and flushing the entire system at this time.

1 Disconnect batteries.

2 Drain approx. two gallons of coolant.

3 Assemble the coolant filter block and mounting bracket using supplied 3/8" bolts and washers. (Image 1)

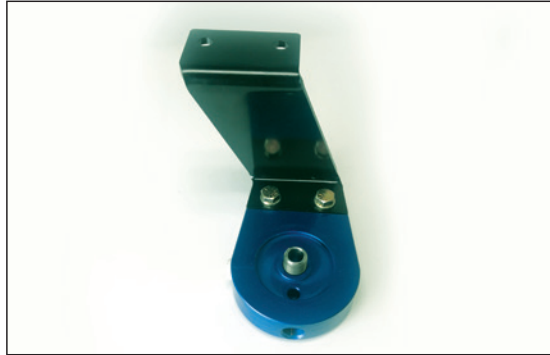


IMAGE 1

4 Using a 13/16" or crescent wrench install the two supplied 1/4 turn ball valves onto the coolant filter block (thread sealing tape is not needed.)



IMAGE 2

5 Install the coolant lines onto the ball valves. The 36" coolant line with the 90° fitting will thread into the ball valve on the top of the coolant filter block. The 52" coolant line with the straight fitting will thread into the ball valve on the left side of the coolant filter block. (Image 3)



IMAGE 3

6 Lubricate the o-ring on the coolant filter with a petroleum based lubricant. Install the filter, hand tight, onto the filter block.

7 Using supplied 10mm bolts and lock washers, install the mounting bracket assembly. Bracket mounts on the driver side of the air conditioning compressor. (Image 3)

8 Route both coolant lines back to the fire wall and over to the passenger side of the vehicle. Make sure to run lines through the supplied heat wrap. (Image 4)

9 Using the 36" Sinister Diesel coolant hose with the 5/8" blue tee and hose clamps, splice into the heater hose that is routed from the EGR cooler to the firewall. (Image 5)

10 Using the remaining 52" Sinister Diesel coolant hose with brass tee and hose clamps, splice into the coolant return line on the degas bottle (coolant reservoir). (Image 6)



IMAGE 4

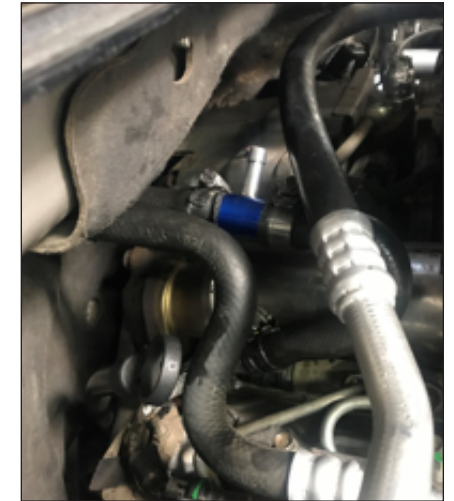


IMAGE 5



IMAGE 6

11 Using the supplied cable ties, tie coolant hoses together and out of the way. Be sure to tie the return line to the hard heater line routed from the fire wall to the radiator. (Image 7)



IMAGE 7

12 Refill the coolant system to factory specifications. Turn ball valves to the open position and check for leaks as the engine reaches operating temperature.

Installation of your Sinister Diesel Coolant Filter is now complete.

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