



**SINISTER  
DIESEL**

# Coolant Filter Kit

2013-18 & 2019 Dodge/Ram 6.7L Cummins (Install Time: 2-3 hours)





# 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	3/8" NPT Ball Valves	2
B	1/4" Flat Head Bolts	3
C	Coolant Filter Block	1
D	Short T-end Coolant Line	1
E	Long Cut-end Coolant Line	1
F	3/8" NPT 90 Degree	1
G	3/8" Straight Barb Fitting	1
H	Coolant Filter	1
I	Size 6 Hose clamps	3
J	Thread Seal Tape	1
K	2013-18 Mounting Bracket	1
L	2019+ Mounting Bracket	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 ensure 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.**

**\*\*\* 2019 Cummins shown, intake & brackets may vary.**

**1** Start with draining the coolant, you will need to drain about 3 gallons to prevent a mess. Disconnect the batteries since we will be removing electrical components. (Image 1)



IMAGE 1

**2** Disconnect the MAF sensors and remove the factory airbox from the truck. (Image 2)

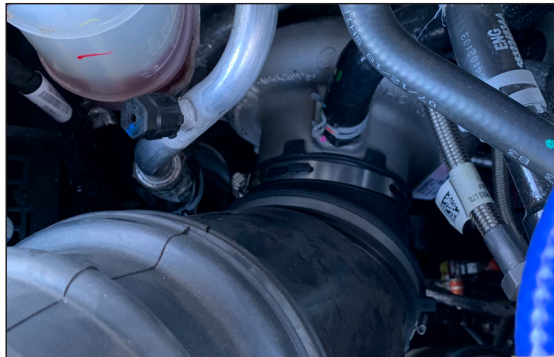


IMAGE 2

**3** The intake tube that connects to the turbo can now be removed as well. (Image 3)

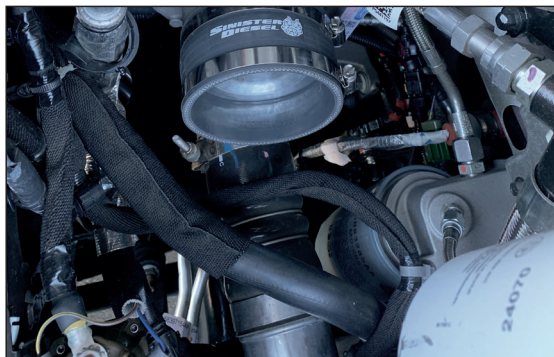


IMAGE 3

**4** Using a breaker bar, take tension off the serpentine belt and remove from alternator pulley. Once removed, upper bolt needs to be removed (15mm wrench) and alternator can be rotated down. (Image 4)

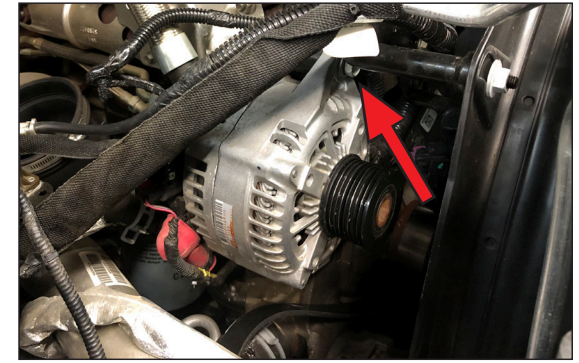


IMAGE 4

**5** The upper alternator mount must now be removed. (10mm wrench) Save the hardware as it will be reused. (Image 5)

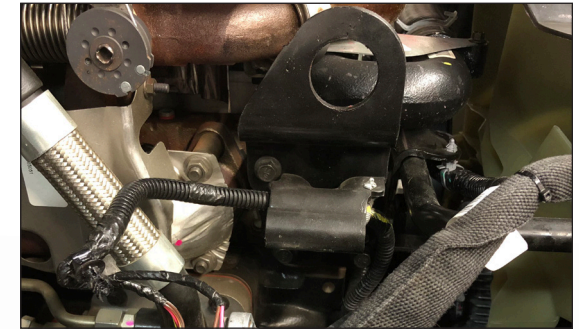


IMAGE 5

**6** The factory engine lift hook can now be removed as well. (13mm wrench) Save hardware as it will be reused. (Image 6)



IMAGE 6

**7** Install the new Sinister engine lift hook (K) using factory hardware, followed by the upper alternator mount, also using factory hardware. (Image 7)

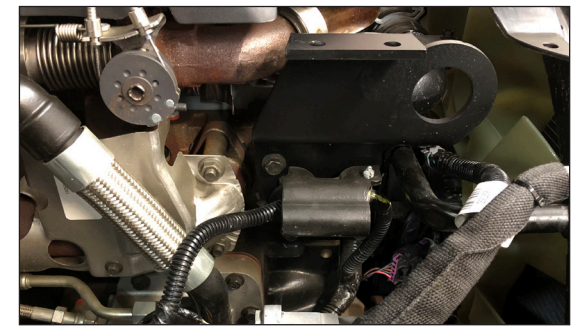


IMAGE 7

**8** The alternator can now be rotated back up into place and bolted back on. Re-attach the serpentine belt. (Image 8)

**9** Pre-assemble coolant filter block (C) using ball valves (A) and 90 degree fitting (F.) Note the orientation of the fittings. Once assembled, attach filter head to bracket with 3 bolts (B) using a 5/32 hex key. (Images 9a & 9b)

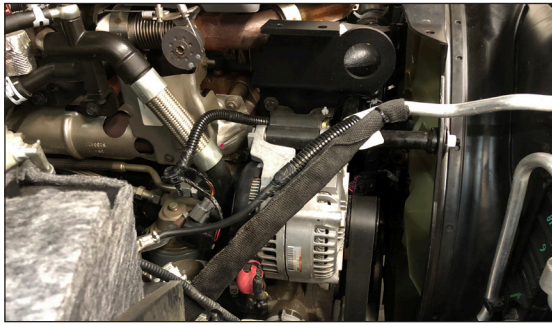


IMAGE 8

**2013 - 2018**



IMAGE 9a

**2019**



IMAGE 9b

**PICTURES IN THIS GUIDE ARE OF THE 2019 KIT FOR GENERAL INSTRUCTION PURPOSES**

**10** Locate and remove coolant plug on the passenger side of cylinder head. There will be a loss of coolant when plug is removed. (Image 10)

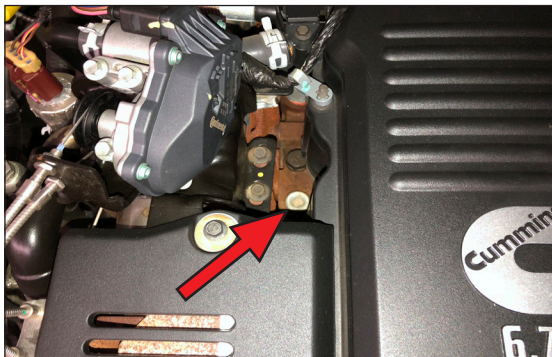


IMAGE 10

**11** Apply teflon tape (J) and install new straight NPT fitting (G) into coolant port. (Image 11)

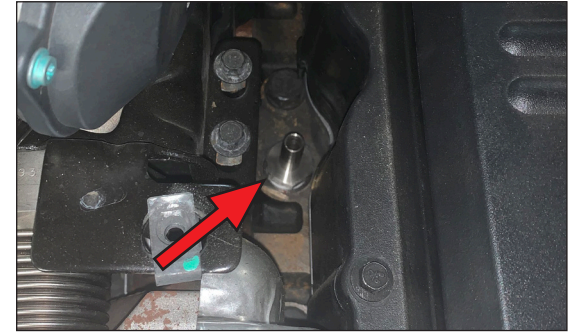


IMAGE 11

**12** Coolant feed line (E) can now be attached to coolant block, and routed to the newly installed cylinder head fitting with hose clamp (I.) The hose clamp is difficult to get access to, access will be under the EGR Valve in the orientation of red arrow. (Image 12 & 13)



IMAGE 12

**13** You can now splice in the return line (D) and attach to the filter block with hose clamp (I.) Attach filter (H) and double check all connections. (Image 14)



IMAGE 13

**Your Sinister Coolant Filter installation is now complete. Refill coolant to factory specs. Be sure to check for leaks and top off after the first few drives, then regularly after that.**



IMAGE 14

SD-6.7CCF19-01-20  
SD-COOLFIL-6.7C-13

2020



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