

INSTALLATION GUIDE



Coolant Filter Kit

2013–2018 Dodge/Ram 6.7L Cummins





DISCLAIMER

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

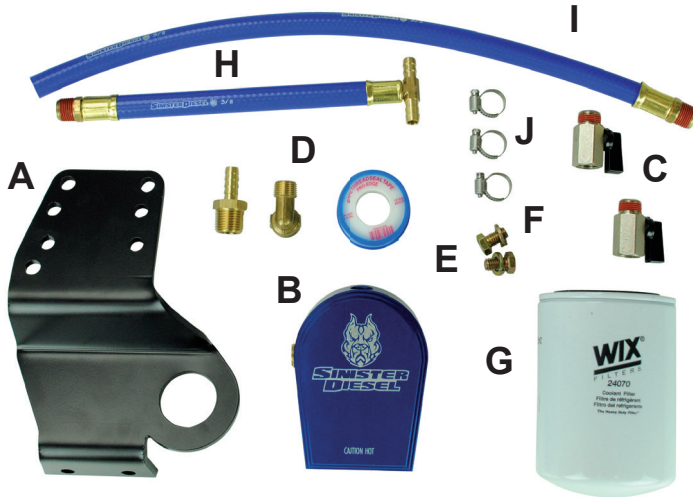
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3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.

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PART:	DESCRIPTION:	QTY:
A	Mounting Bracket / Lift Hook	1
B	Sinister Diesel Filter Block	1
C	Ball Valve	2
D	90° NPT Fitting	1
E	3/8" Hex Bolt	2
F	3/8" Lock Washer	2
G	Wix Coolant Filter	1
H	Short Hose Assembly	1
I	Long Hose Assembly	1
J	Hose Clamp	3

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 Start by draining about 3 gallons of coolant. Also disconnect the batteries. (Image 1)



IMAGE 1

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



IMAGE 2

- 3 Remove the intake tube that connects to the turbo using an 8mm socket or nut-driver. (Image 3)

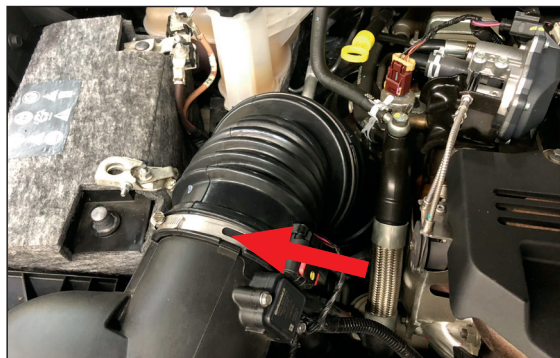


IMAGE 3

4 Using a breaker bar, take tension off the serpentine belt and remove it from the alternator pulley. Then remove the upper bolt using a 15mm socket and rotate the alternator down. (Image 4)

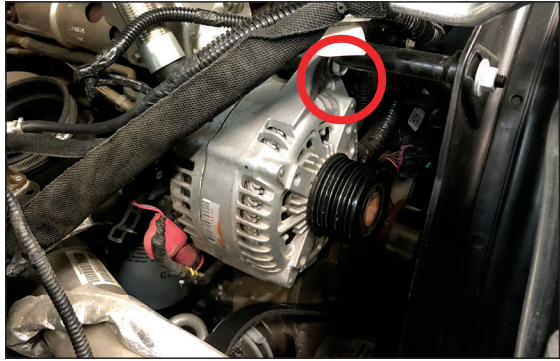


IMAGE 4

5 Remove the upper alternator mount using a 10mm socket. Save the hardware as it will be reused. (Image 5)

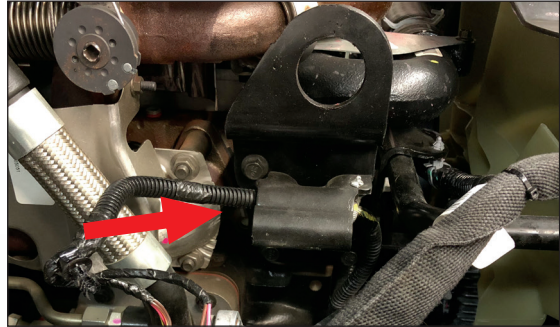


IMAGE 5

6 Remove the factory engine lift hook with a 13mm socket. Save hardware as it will be reused. (Image 6)



IMAGE 6

7 Install the new Sinister filter mount/engine lift hook (Item A) using factory hardware, followed by the upper alternator mount also using factory hardware. (Image 7)

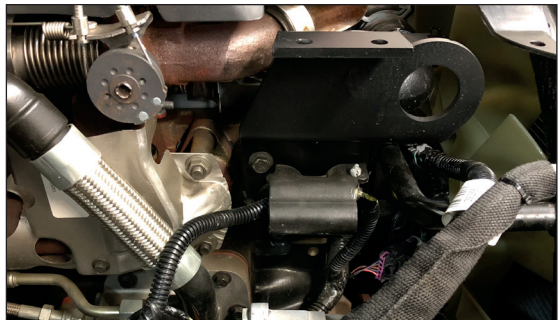


IMAGE 7

8 Rotate the alternator back up into place and bolt it back on. Reattach the serpentine belt. (Image 8)

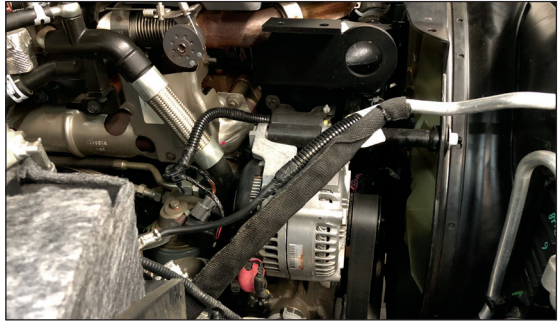


IMAGE 8

9 Pre-assemble the coolant filter block with items C and D. Note the orientation of the fittings. Once assembled bolt it onto the bracket. (Image 9 & 10)



IMAGE 9

10 Locate and remove the coolant plug on the passenger side of the cylinder head with a 3/8" square drive. There will be a loss of coolant when plug is removed. (Image 11)



IMAGE 10

11 Install new NPT fitting into coolant port with a 13/16" deep socket. (Image 12)



IMAGE 11

12 Attach coolant feed line to the coolant block with a 11/16" wrench and route it to the newly installed cylinder head fitting. The hose clamp may be difficult to access. Note location of screwdriver required for access. (Image 13 & 14)



IMAGE 12

13 Splice the return line in and attach it to the filter block with 11/16" wrench. Attach filter and double check all connections. (Image 15)



IMAGE 13



IMAGE 14

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



IMAGE 15

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