



Coolant Filter Kit

2017-2019 Ford 6.7L Powerstroke

(Install time 1-3 hours)





DISCLAIMER

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

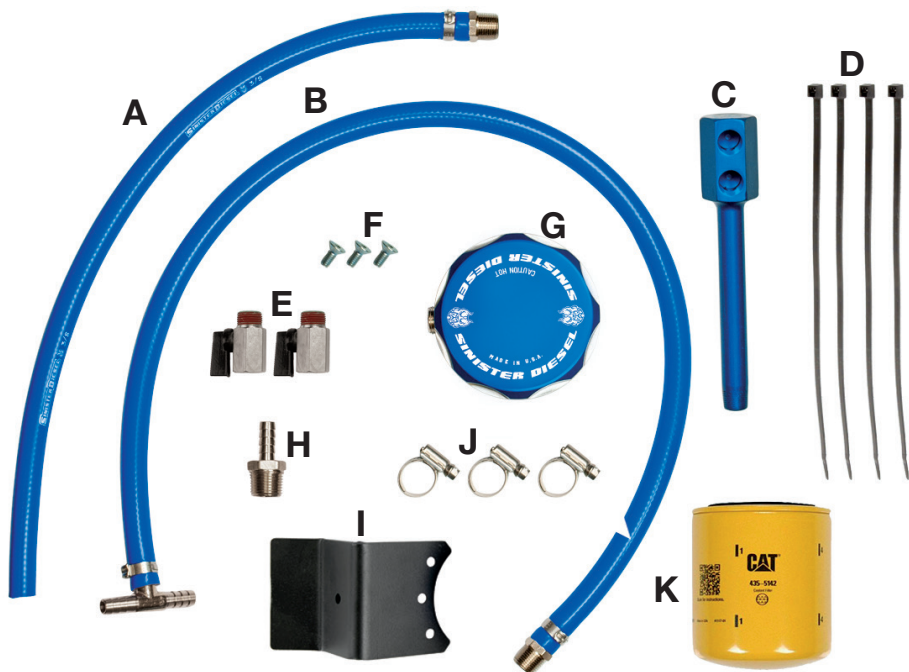
2) It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering in-operative of any part of the design affecting emissions or safety on motor vehicles used on a public 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	14.75" Coolant Line w/ straight fitting	1
B	25" Coolant Line w/ T fitting	1
C	Coolant Riser Manifold	1
D	Zip Ties	4
E	3/8 NPT Ball Valves	2
F	5/8 flat head bolts (1/4-20)	3
G	Coolant Filter Block	1
H	3/8 NPT straight fitting	1
I	Mounting Bracket	1
J	#5 Hose Clamps	3
K	CAT Filter	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.

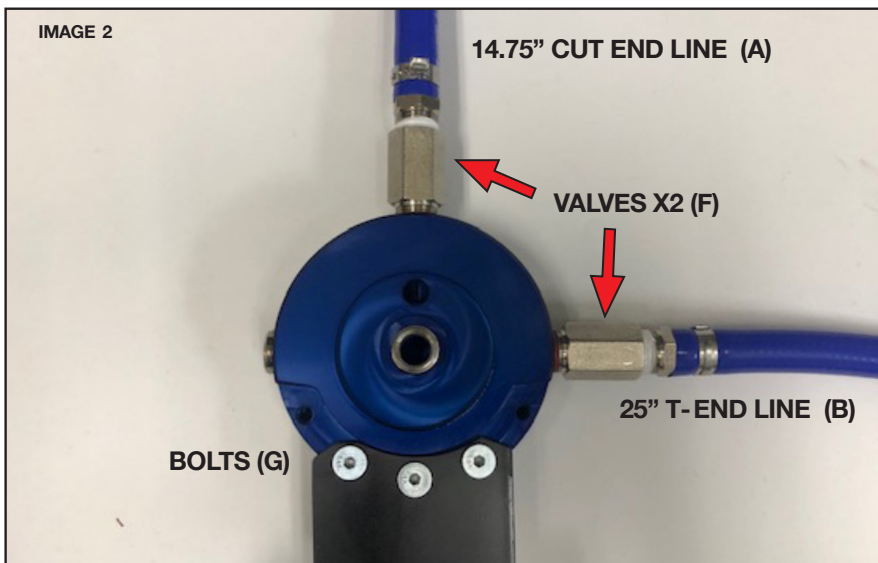
- 1** On the driver's side bottom of the radiator open the petcock valve and drain the engine coolant system. There are about 7 gallons of fluid in the system. Squeeze the upper radiator hose to evacuate coolant from the upper part of the cooling system (Image 1)



IMAGE 1

Note: Placing 1/4" hose onto the petcock valve will help keep the coolant from splashing.

- 2** Ensure any bare threads on the hose assemblies have thread sealant applied, if not teflon tape needs to be applied. Assemble coolant block as shown in IMAGE 2. Ball valve handles should be on top for easy access. On all fittings, make sure to tighten into place only, backing off the tension can cause leaks.



- 3 Install the coolant filter assembly to the firewall on the driver side. Remove the nut stud threaded into the firewall using a 13mm deep socket or wrench. Re-install the stud holding the coolant filter assembly in place. (Image 3)

- 4 Remove the temperature sensor wire, pull up on the plastic retainer clip with a 90 degree pick or similar tool then depress the top on the temperature sensor and pull upward. Some may prefer to remove the upper radiator hose to allow easier access to the T.S. (Image 4)

Note: On step 5, a substantial amount of coolant will leak out.

- 5 Using a 90 degree pick, release the retainer clip on the motor side of the upper radiator hose. The clip will not come completely off, disconnect the hose from the motor. The image shows the hose disconnected from the fitting. (Image 5)

- 6 Ensure the coolant riser manifold (C) has thread sealant applied, if not teflon tape needs to be applied. (Image 6)



IMAGE 3

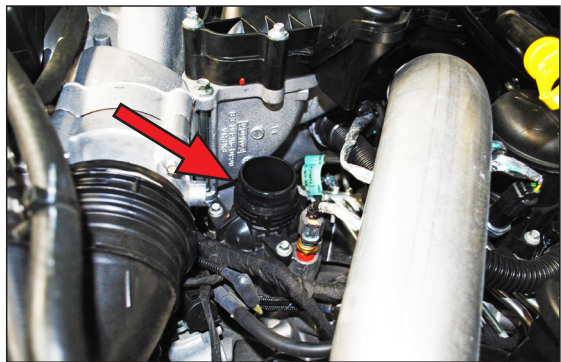


IMAGE 4

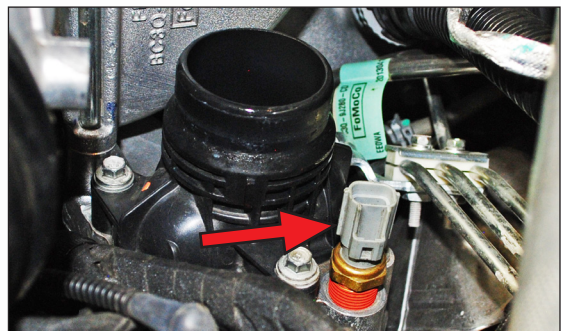


IMAGE 5



IMAGE 6

7 Install the Sinister coolant riser manifold (C) hand tight. Be careful not to cross the threads. Also push the clip back in place on the top radiator hose and reconnect the hose to the motor if removed. (Image 7)

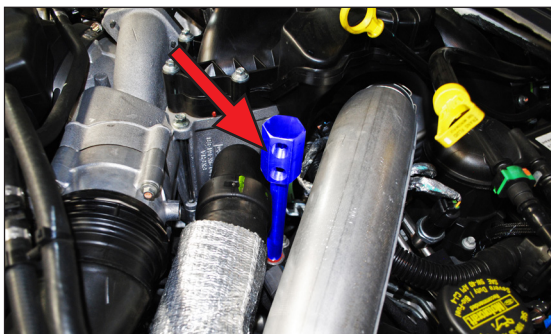


IMAGE 7

8 Using an adjustable wrench, tighten up the riser manifold (*NOTE: Using painters tape on your wrench will protect the Sinister Blue anodized finish*). Tighten the manifold to the point that the threaded ports are facing the driver's front corner of the vehicle. Only tighten into position. Any loosening may cause coolant to leak at the threads. (Image 8)

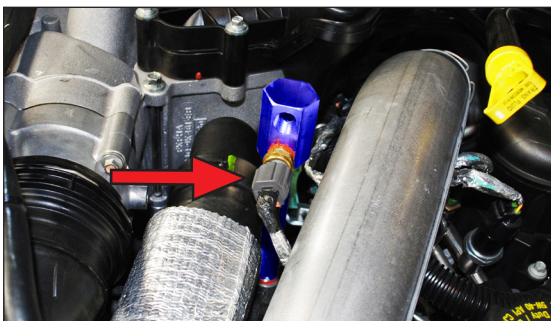


IMAGE 8

9 Clean the threads on the temp sensor and reapply new thread seal tape. (Image 9)

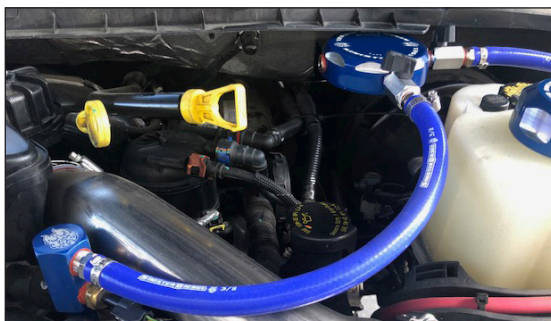


IMAGE 9

10 Install the temp sensor to the bottom port of the riser manifold. Take precaution and support the riser manifold with a wrench when tightening the temp sensor or coolant hose. Reconnect the temp sensor. (Image 10)



IMAGE 10

- 11** Install the provided 3/8 NPT fitting (H) into the top port of the riser manifold (C) above factory temperature sensor. Make sure to use thread seal tape if threads are bare. Put a supplied #5 hose clamp (J) on the Sinister coolant line (A) from the front of the block and press it onto the fitting installed in the riser and tighten hose clamp. (Image 9)



IMAGE 11

- 12** Route the Sinister coolant line (B) around the driver side of the degas bottle and lay fitting over factory degas line, mark and cut factory line (make sure to leave 3-4", enough space for the hose barb and clamp) Add hose clamps, install T fitting and tighten hose clamps. Zip tie in place. (Image 10)

- 13** Add a small amount of petroleum jelly or similar to the O-ring, this helps with removal later. **MAKE SURE THE INSTALLED FILTER DOES NOT CONTACT THE FACTORY FUEL LINE.** Zip tie the outer line to the inner to add additional clearance if they are close. (Image 11)

- 14** Make sure ball valve handles are in-line with hose, this is "ON" position, 90 degrees is the "OFF" position.

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.

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