

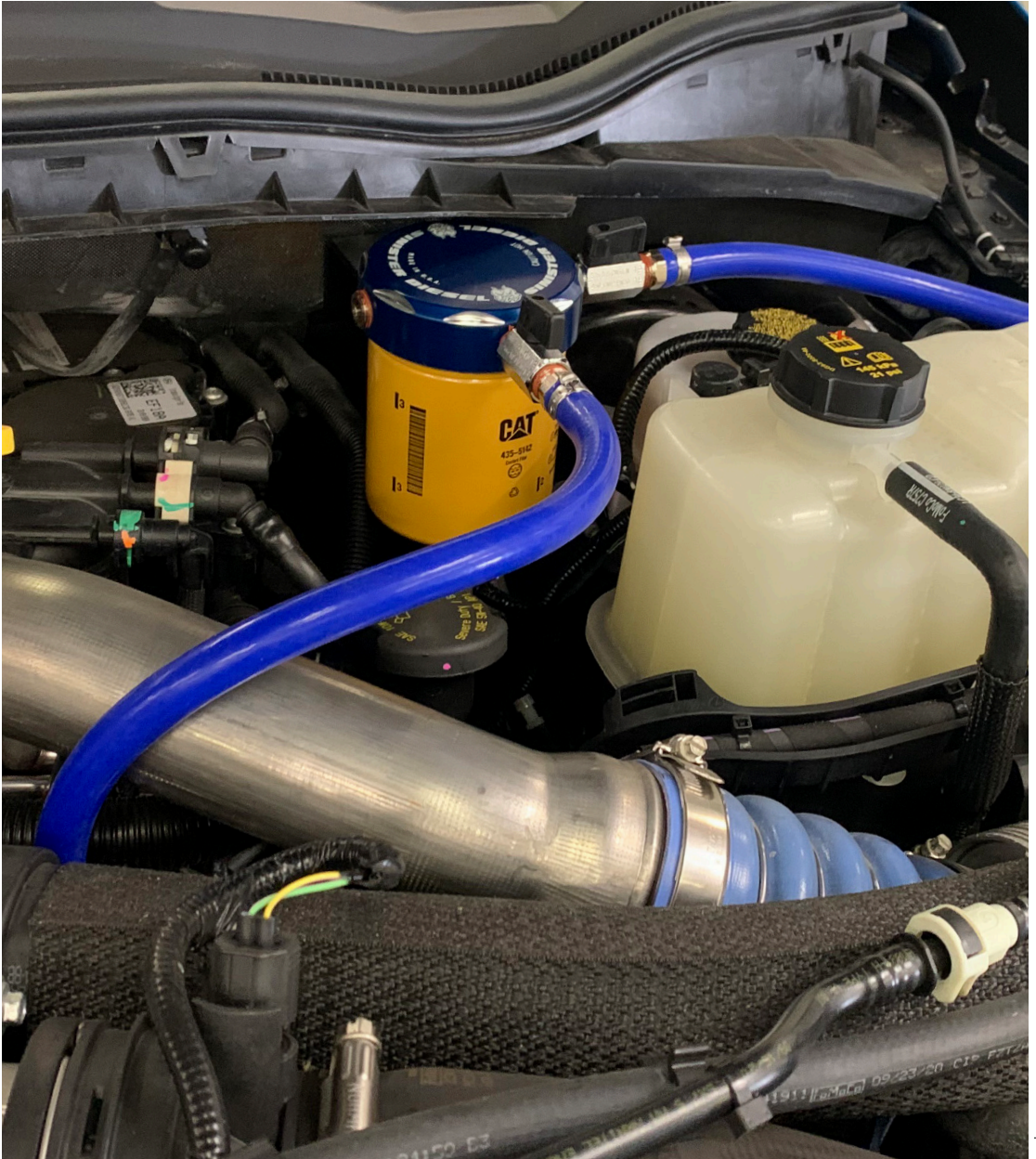
INSTALLATION GUIDE



# Coolant Filter Kit

2020-2021 Ford 6.7L Powerstroke

(Install time 1-3 hours)





# DISCLAIMER

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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.

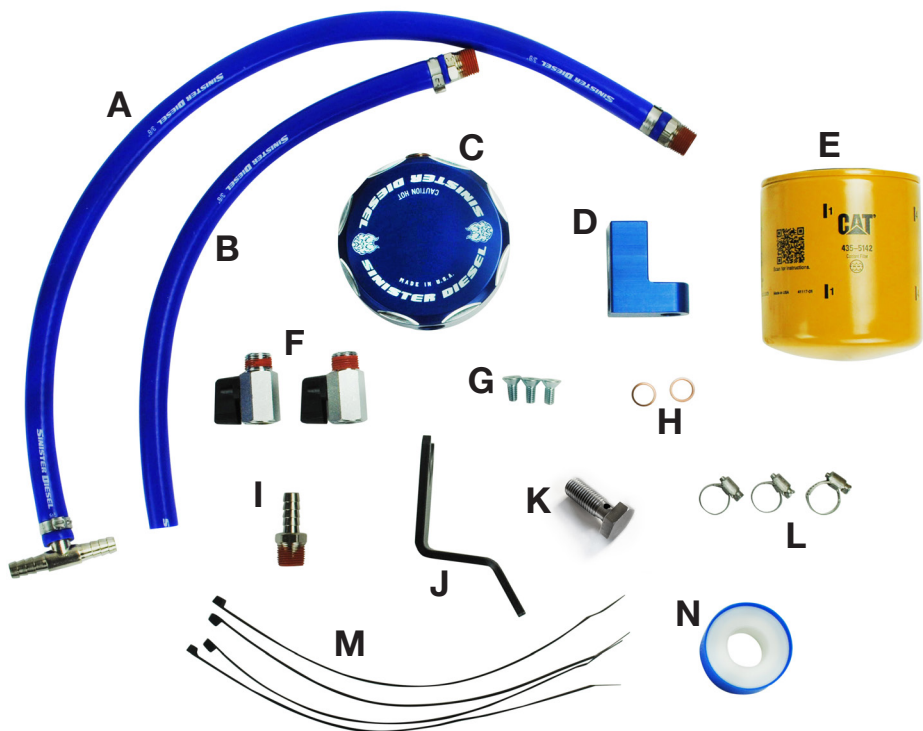
3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.

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

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PART:	DESCRIPTION:	QTY:
<b>A</b>	<b>25" Coolant Line w/ T fitting</b>	<b>1</b>
<b>B</b>	<b>14.75" Coolant Line w/ straight fitting</b>	<b>1</b>
<b>C</b>	<b>Coolant Filter Block</b>	<b>1</b>
<b>D</b>	<b>Coolant Riser Block</b>	<b>1</b>
<b>E</b>	<b>CAT Filter</b>	<b>1</b>
<b>F</b>	<b>3/8 NPT Ball Valves</b>	<b>2</b>
<b>G</b>	<b>Flat Head Bolts (1/4-20)</b>	<b>3</b>
<b>H</b>	<b>Copper Sealing Washers</b>	<b>2</b>
<b>I</b>	<b>3/8 NPT Straight Fitting</b>	<b>1</b>
<b>J</b>	<b>Mounting Bracket</b>	<b>1</b>
<b>K</b>	<b>Banjo Bolt - 1.5"</b>	<b>1</b>
<b>L</b>	<b>#5 Hose Clamps</b>	<b>3</b>
<b>M</b>	<b>Zip Ties</b>	<b>4</b>
<b>N</b>	<b>Thread Seal Tape</b>	<b>1</b>

*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 negative terminals on both batteries.

**2** Drain coolant from main cooling system, petcock is located behind the bumper on the driver side.

**3** Using a 7mm socket, loosen clamps holding hot side charge pipe on. Remove pipe. (Image 1)



IMAGE 1

**4** Pull white clip back and unplug coolant temp sensor. Remove brass fitting using a deep 19mm socket. (Image 2)



IMAGE 2

**5** Assemble new coolant riser block (D) with original coolant temp sensor and 3/8" NPT fitting (I) as shown in (Image 3).

**6** Using supplied banjo bolt (K) and washers (H), install coolant riser block in place of where the coolant temp sensor was, tighten with 19mm socket. Plug sensor in. (Image 4)

**7** Pre-assemble coolant block (C) with ball valves (F), hoses (A&B) and bracket (J) as seen in (Image 5).

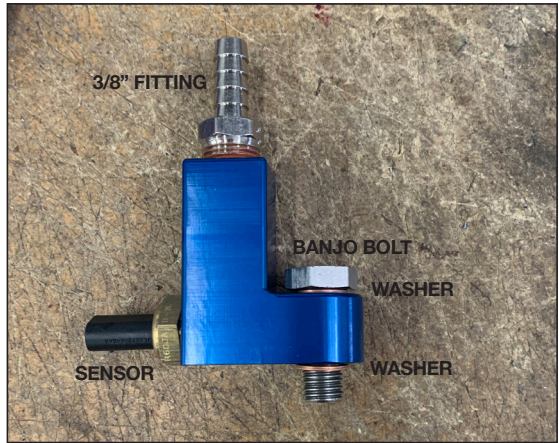


IMAGE 3



IMAGE 4



IMAGE 5

**8** On drivers side firewall, locate and remove stud using 13mm socket.

**9** Using previously removed stud, attach coolant block assembly onto the firewall. (Image 7)

**10** Cut approx.  $\frac{1}{2}$ " out of the black coolant return hose to the de-gas bottle and install new coolant tee in hose using supplied clamps. (Image 8 & 9)

**11** Using supplied clamp, install new coolant feed line onto previously installed coolant riser block. (Image 10)

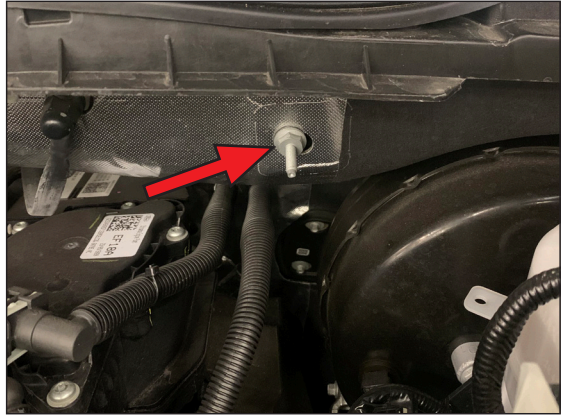


IMAGE 6

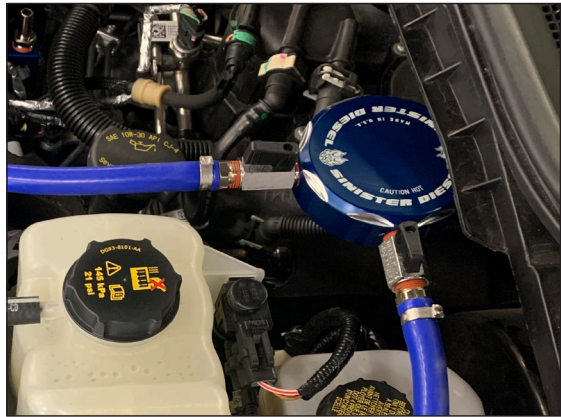


IMAGE 7



IMAGE 8

**12** Pre-fill the filter and wet the O-ring with a petroleum lubricant and install onto the collant filter block (J)

**13** Reinstall hot side charge pipe, be sure the beadrolls on the boots fit into grooves onto pipe, tighten clamps with 7mm socket. (Image 11)

**14** Refill coolant system. Reconnect batteries.

**15** Start engine and check for leaks, top off coolant as needed.

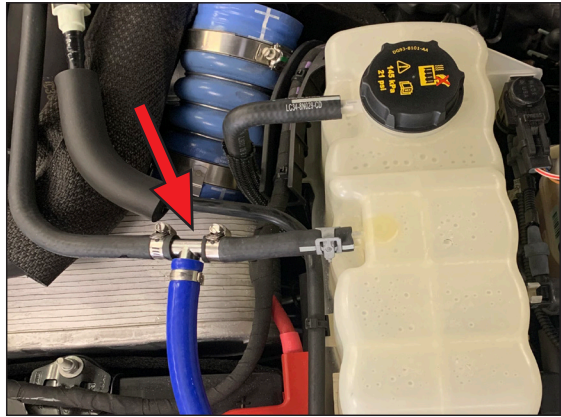


IMAGE 9

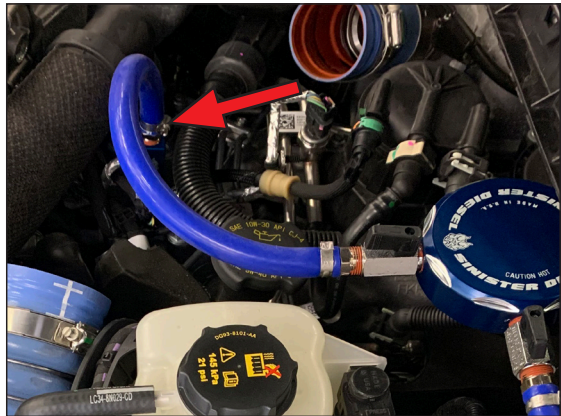


IMAGE 10

IMAGE 11



**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.**

SD-CF-6.7P-20

2021



**#1 IN PERFORMANCE PARTS & KITS**

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