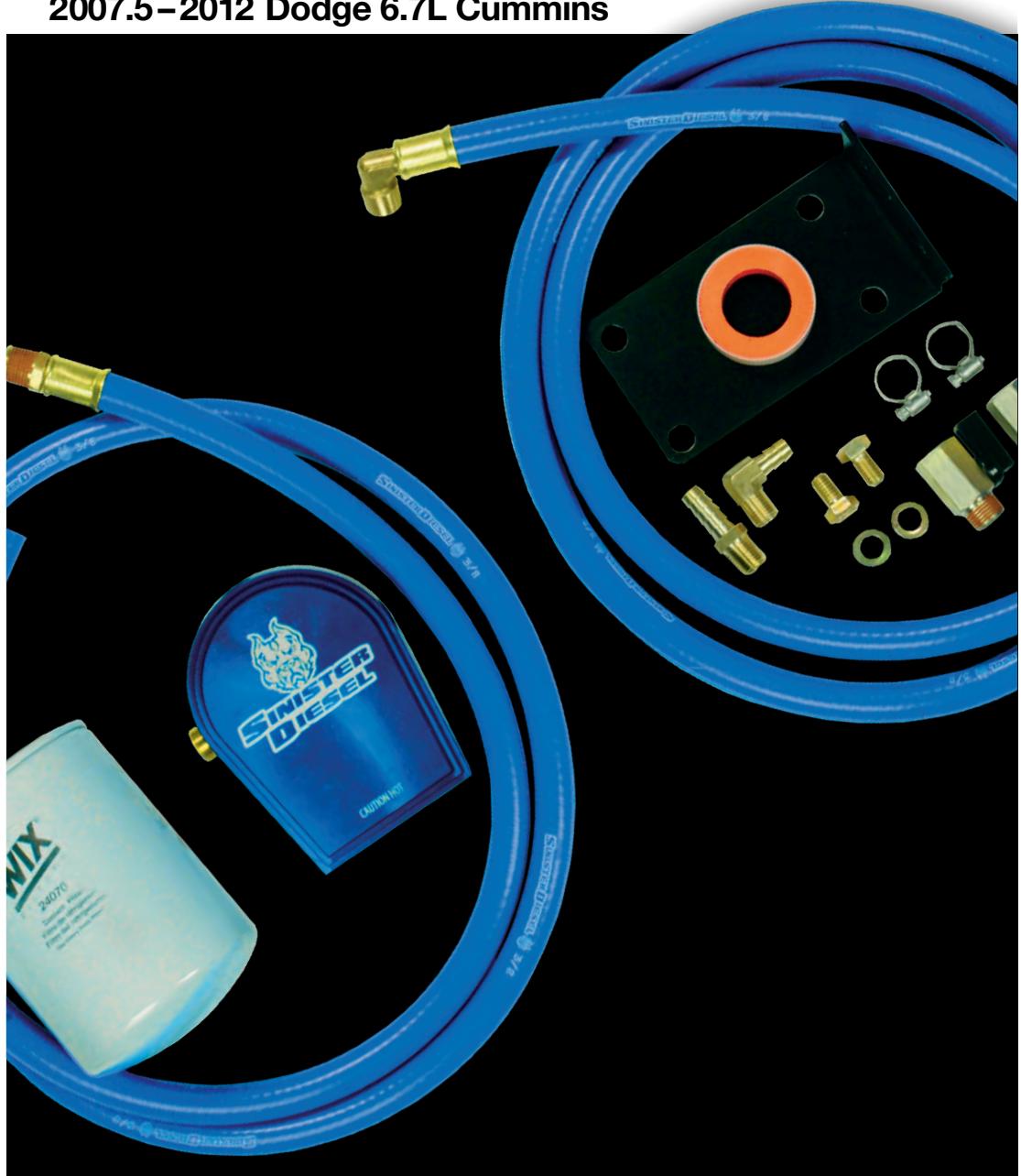


INSTALLATION GUIDE:



# Coolant Filter Kit

2007.5–2012 Dodge 6.7L Cummins

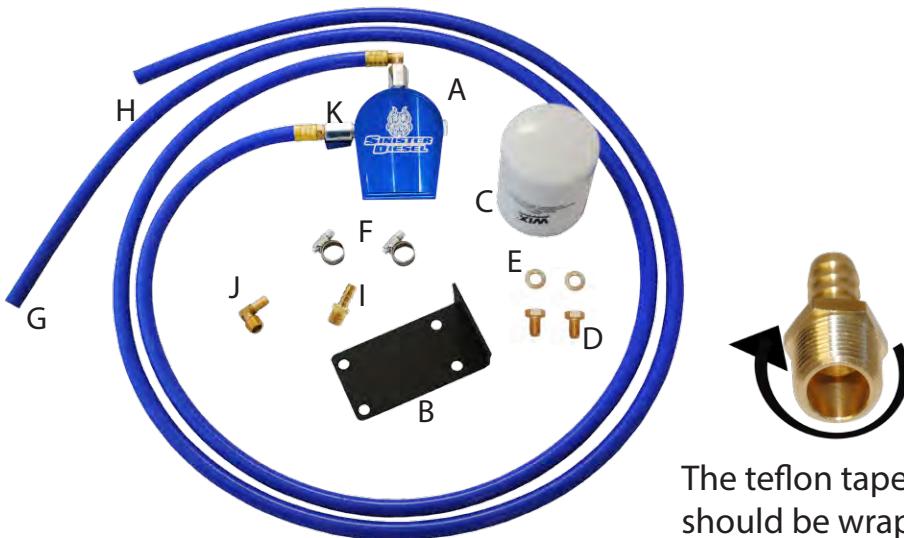




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# Sinister Diesel Coolant Filtration Kit



## PACKING LIST:

<b>Part</b>	<b>QTY.</b>	<b>Description</b>
A	1	Coolant Filtration Block
B	1	Coolant Filter Bracket (Black)
C	1	Coolant Filter
D	2	3/8" Hex Head Bolts
E	2	3/8" Lock Washers
F	2	Size 8 Hose Clamps
G	1	70" Coolant Line with Straight Fitting
H	1	89" Coolant Line with 90° Fitting
I	1	Straight 3/8 Barb fitting
J	1	90° 3/8 Barb fitting
K	2	1/4 Turn Ball Valves
L	1	Roll of Teflon Tape ( <i>Not shown in image</i> )

The teflon tape should be wrapped clock-wise when looking at the fitting from this angle.

Read all instructions prior to install.

Note: 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.

**Step 1:** Disconnect batteries.

**Step 2:** Drain coolant.

**Step 3:** Use a 13/16" or Cresent wrench to install 1/4 turn ball valves to coolant filtration block. Also install 3/8" hose barb to the ball valve. 90° hose barb goes in the top of the coolant block as shown in Image. Be sure to apply Teflon tape in the correct direction to all of the threads and valves are in the off position. (Image 1)



Image 1



Image 2

**Step 2:** Use a 13mm wrench to install the mounting plate behind electronic relay box on the frame on the passenger side. Re-use the factory hardware. (Image 2 and 3)

**Step 3:** Install the assembled coolant filter block to the mounting plate that has been installed to the frame. (Image 3)



Image 3

**Step 4:** Prefill the coolant filter with coolant and wet the O-ring on the filter, then install the filter to the coolant block.

(Image 3)



Image 4

**Step 5:** (Under the hood)

Remove the engine cover using a 8mm socket. There are four bolts holding the cover on.

(Image 4)



Image 5

**Step 6:** (2 HR. Short Cut Step) If you have a 9/16" Crows Foot wrench you can skip steps 7-11. Use a 1/4" allen wrench to remove the allen plug next to the exhaust bypass valve. This is located on the passenger side of the valve cover. (Image 5)

**Step 7:** Use a 11mm socket to loosen the V-Band clamps.

Remove the bolt in the middle underneath the cross over pipe holding it in place. Remove the cross over pipe. Keep the gaskets for use during installation.

(Image 6)

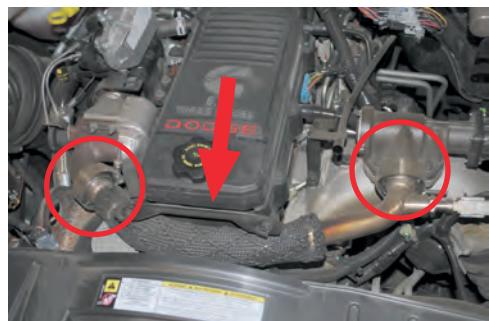


Image 6

**Step 8:** Use a 10mm wrench to remove the heat shield over the exhaust bypass valve and the heat shield tab under the bypass valve on the passenger side. (Image 7 and 8)



Image 7



Image 8

**Step 9:** Remove the four bolts that mount the exhaust bypass valve and set the bypass valve aside. Leave it connected to the control cable as it will be reinstalled. Be sure to keep the gasket intact as it will need to be reused. (image 9)



Image 9



Image 10

**Step 10:** Use a 11mm socket to loosen the V-band clamp on the EGR cooler. Use a 15mm wrench to remove the two nuts holding the cast elbow in front of the EGR cooler. You may have to remove the exhaust bypass servo to loosen the V-band Clamp. (image 10 and 11)

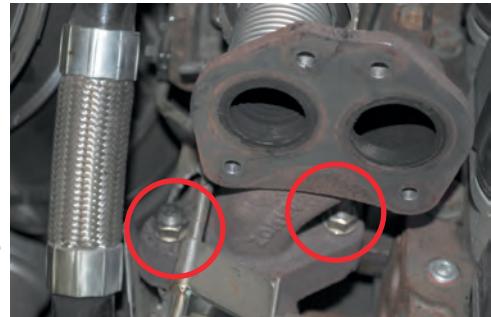


Image 11

**Step 11:** Plug the Exhaust hole with clean rag to keep debris out. Then using a  $\frac{1}{4}$ " allen wrench remove the allen plug to the right of where the cast elbow was. (Image 12)



Image 12

**Step 12:** Use a 9/16" wrench to install the longer hose with the straight fitting into the hole in the head of the motor. Remember to apply Teflon tape properly to the threaded end. (Image 13)



Image 13

**Step 13:** Route the hose down the firewall and along the outside of the frame on the passenger side.



Image 14

**Step 14:** Cut the hose to length if necessary. Slide the hose over the  $90^{\circ}$  barb on the top of the coolant block. Secure hose with supplied hose clamp. **The placement of the line to the correct port is Necessary!!!**

(image 14)

**Step 15:** Reinstall parts following steps 7 through 10 in reverse order.

**Step 16:** Refill the coolant until it fills to the top of the coolant vent hole. Place cap on radiator.



Image 15

**Step 17:** Install the line with the 90° fitting on the end into the coolant vent hole. Use a ½" wrench. Be sure to apply Teflon tape on threads correctly.

(image 15)

**Step 18:** Route the hose alongside of the other hose. Cut to length if necessary. Secure the hose on to the barb fitting on the side of the coolant block with supplied hose clamp. Open the ¼ turn valves at this time. **The placement of the line to the correct port is Necessary!!!** (image 16)



Image 16

**Step 19:** Reinstall the engine cover. (Image 4)

**Step 20:** Top off the radiator and overflow tank. Run the engine with the radiator cap off and top off as needed. Be sure to check for leaks and coolant level after your first drive with the coolant filter installed.

SD-COOLFIL-6.7C-W

2024



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