

INSTALLATION GUIDE



# CAT® Filter Adapter

2001–2016 Chevy/GM LML Duramax (Install Time: 1 hour)





## 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 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.
  
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# Duramax CAT Filter Adapter



## PACKING LIST:

<u>Part #</u>	<u>QTY.</u>	<u>Description</u>
A	1	Sinister Diesel Filter Adapter w/ O-rings
B	2	M8x30mm Hex Bolts
C	2	M8x50mm Hex Bolts
D	1	Fuel Filter Housing Spacer
E	1	CAT Fuel Filter

## Recommended Tools

- 7, 8, 10, 13mm socket
- Plastic Clip Removal Tool

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.

**Note:** As a safety precaution whenever working on a vehicle, we recommend disconnecting any batteries by disconnecting the negative connection to them. The installation of the Sinister Diesel CAT Filter Adapter requires you to expose fuel. Please take the proper precautions for handling fuel.

**Step 1:** Using an 8 mm socket, loosen the two hose clamps and remove the intake plumbing connected to the air filter box. (Image 1)



Image 1

**Note:** For 2001-2004 skip to step 8. For 2004.5-2010 skip step 2 and 3.

**Step 2:** For 2011 and up; using a 13mm socket, remove the bolt securing the coolant tube to the fuel filter bracket. (Image 2)

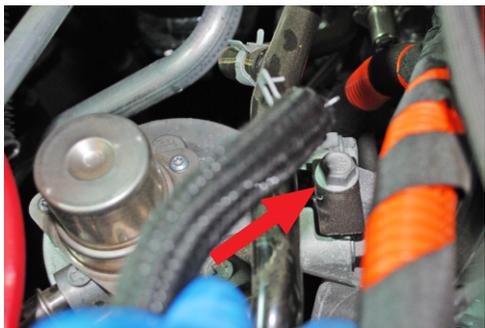


Image 2

**Step 3:** For 2011 and up; using a 13mm socket, remove the two bolts securing a black bracket to the motor. These bolts are located right above the fuel filter bracket. This will make clearance to install the long M8 bolts in step 5. (Image 3)

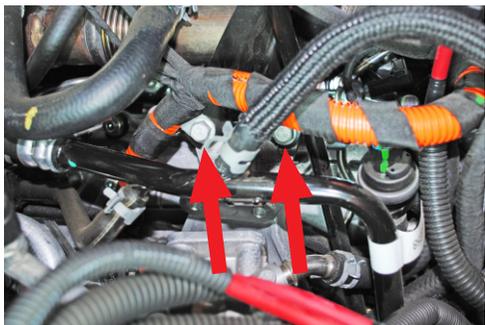


Image 3

**Step 4:** Using a 13mm socket, remove the hardware that secures factory fuel filter housing. (Image 4)



Image 4

**Step 5:** Using the supplied M8 hardware, install the spacer and re-secure the filter housing. Note 2011 and up use the longer bolts. (Image 5)



Image 5

**Step 6:** For 2011 and up; using a 13mm socket, re-install and tighten the two bolts that secure the black bracket to the motor. (Image 6)

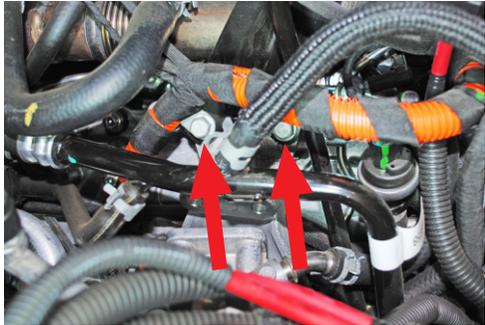


Image 6

**Step 7:** For 2011 and up; using a 13mm socket, re-install the bolt to secure the coolant tube to the fuel filter bracket. (Image 7)

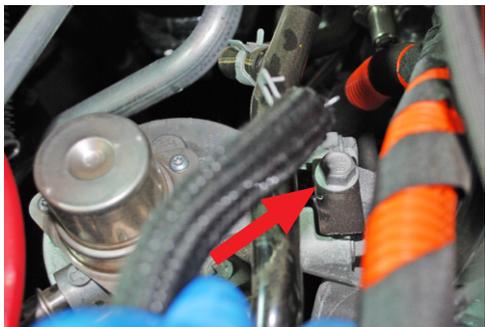


Image 7

**Optional Step** For easy access to remove the factory fuel filter, remove the front passenger fender well.

**Step 8:** Remove the factory fuel filter located on the passenger side of the motor. Use caution; the factory filter is full of diesel fuel and may spill. Use proper procedures to contain the fuel. Make sure the O-ring seal was removed with the filter. (Image 8)



Image 8

**Step 9:** Unplug water separator and remove fuel filter from vehicle. Water separator plug will not be re-used; tie wires up and out of the way. Remove water separator from the factory fuel filter and keep for possible use in the future. (Image 9)



Image 9

**Step 10:** Install the CAT filter to the Sinister Diesel Filter Adapter. (Image 10)



Image 10

**Step 11:** Apply some diesel fuel or motor oil to the O-ring seal on the adapter so that there are no dry areas. (Image 11)

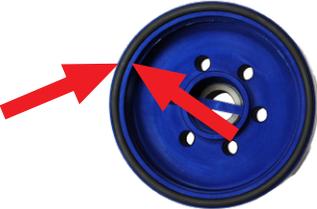


Image 11

**Step 12:** Install the assembled filter and adapter to the vehicle. Only tighten the filter and adapter hand tight. (Image 12)



Image 12

**Step 13:** Open the plastic bleeder bolt circled in image nine. Prime the filter by depressing the priming pump until it fills with fuel. Then close the bleeder bolt. (Image 13)



Image 13

**Step 14:** Start the vehicle and check for leaks.

**Step 15:** Re-install the fender if removed.

SD-CAT-DMAX

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