

## INSTALLATION GUIDE



# Coolant Filter Kit

2020-2021 Chevy Duramax L5P





# 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.

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	11" Cable Ties	5
B	M10 Hex Head Bolts	2
C	1/4-20 Flat Head Bolts	3
D	M10 Lock Washers	2
E	3/8"x3/8"x3/8" Barbed Tee	1
F	5/8"x5/8"x3/8" Blue Tee	1
G	#10 Hose Clamps	2
H	#5 Hose Clamps	4
I	3/8" NPT Ball Valves	2
J	90 degree Fittings	2
K	55" Sinister Diesel Coolant Hose	1
L	20" Sinister Diesel Coolant Hose	1
M	Wix 24070 Coolant Filter	1
N	Sinister Diesel Filter Block	1
O	Coolant Filter bracket	1
P	22" Heat Wrap	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 ensure 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.

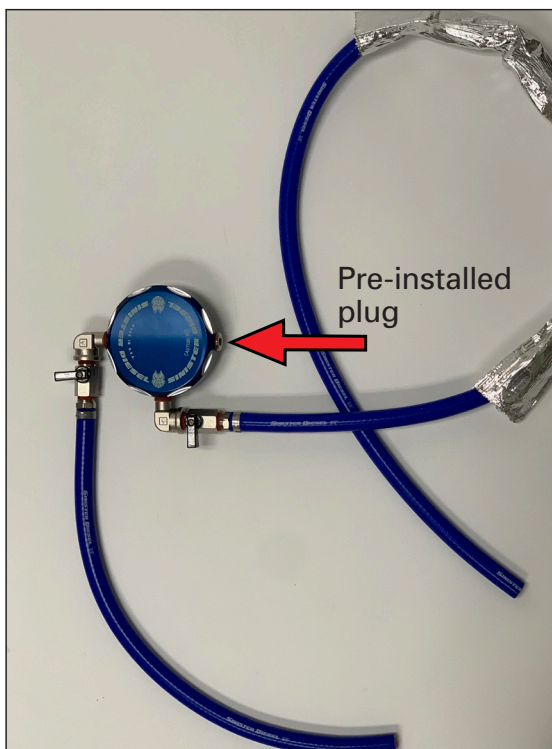
**IMPORTANT:** Installation of the Sinister Diesel Coolant Filter Kit requires cutting of the coolant lines, resulting in coolant loss. Due to the coolant loss, we suggest draining and flushing the entire system at this time. If not feasible then drain at least 2 gallons of coolant.

**1** Disconnect batteries.

**2** Drain approx. two gallons of coolant.

**3** Preassemble the filter block (N), fittings (J), valves (I), and hoses (K & L) as pictured using an 11/16" and 13/16" wrench (image 1)

**NOTE:** Thread fittings (J) into filter block (N) until tight and oriented as shown above. DO NOT overtighten or back off once tight or they may leak. No thread tape is necessary on pre-coated fittings.



**IMAGE 1**

- 4 Install the bracket (O) onto the block (N), centered, using the three flat head bolts (C) and 5/32" allen wrench (image 2)



IMAGE 2



- 5** Install the filter block (N) onto the motor using the M10 bolts (B) and lock washers (D) with a 17mm socket (image 3 & 4)

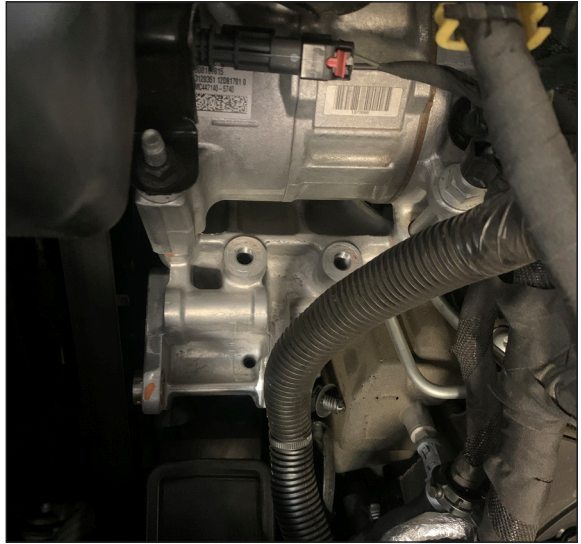


IMAGE 3



IMAGE 4

**6** Route the shorter return hose (L) between the battery and fuse box and using the 3/8" barbed Tee fitting (E), splice into degas return line, secure with three hose clamps (H), using a 1/4" socket (mesh hose cover may need to be removed) (image 5)

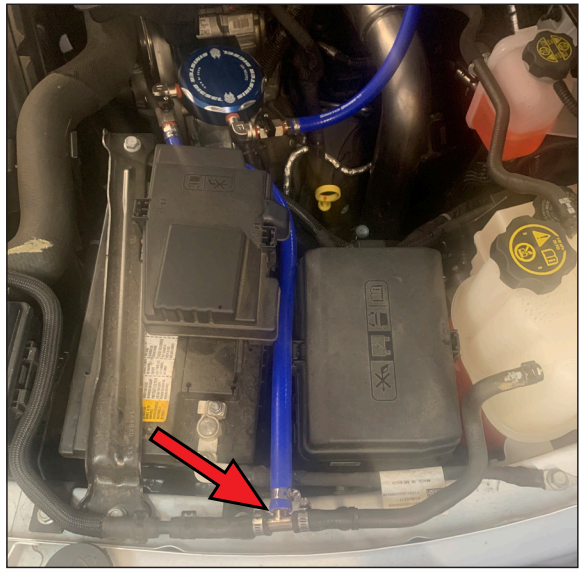


IMAGE 5

**7** Route the longer feed line (K) through the heat wrap (P) and across the back of the firewall, secure with supplied zip ties (A), splice in larger blue Tee (F) into coolant feed hose, secure with hose clamps (G) using a 1/4" and 5/16" socket (mesh hose cover may need to be removed) (image 6)



IMAGE 6

**8** Apply coolant or a light grease onto o-ring of filter (M) and install on the filter block (N) and open valves (I) (image 7).



IMAGE 7

**9** Start engine and check for leaks, retighten any clamps if needed.

SD-CF-L5P-20

2022



**#1 IN PERFORMANCE PARTS & KITS**

2025 OPPORTUNITY DR. ROSEVILLE, CA 95678 SINISTERDIESEL.COM 888.966.6543