INSTALLATION GUIDE

Oil/Coolant Filter Kit

2003–2007 Ford 6.0L Powerstroke

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.

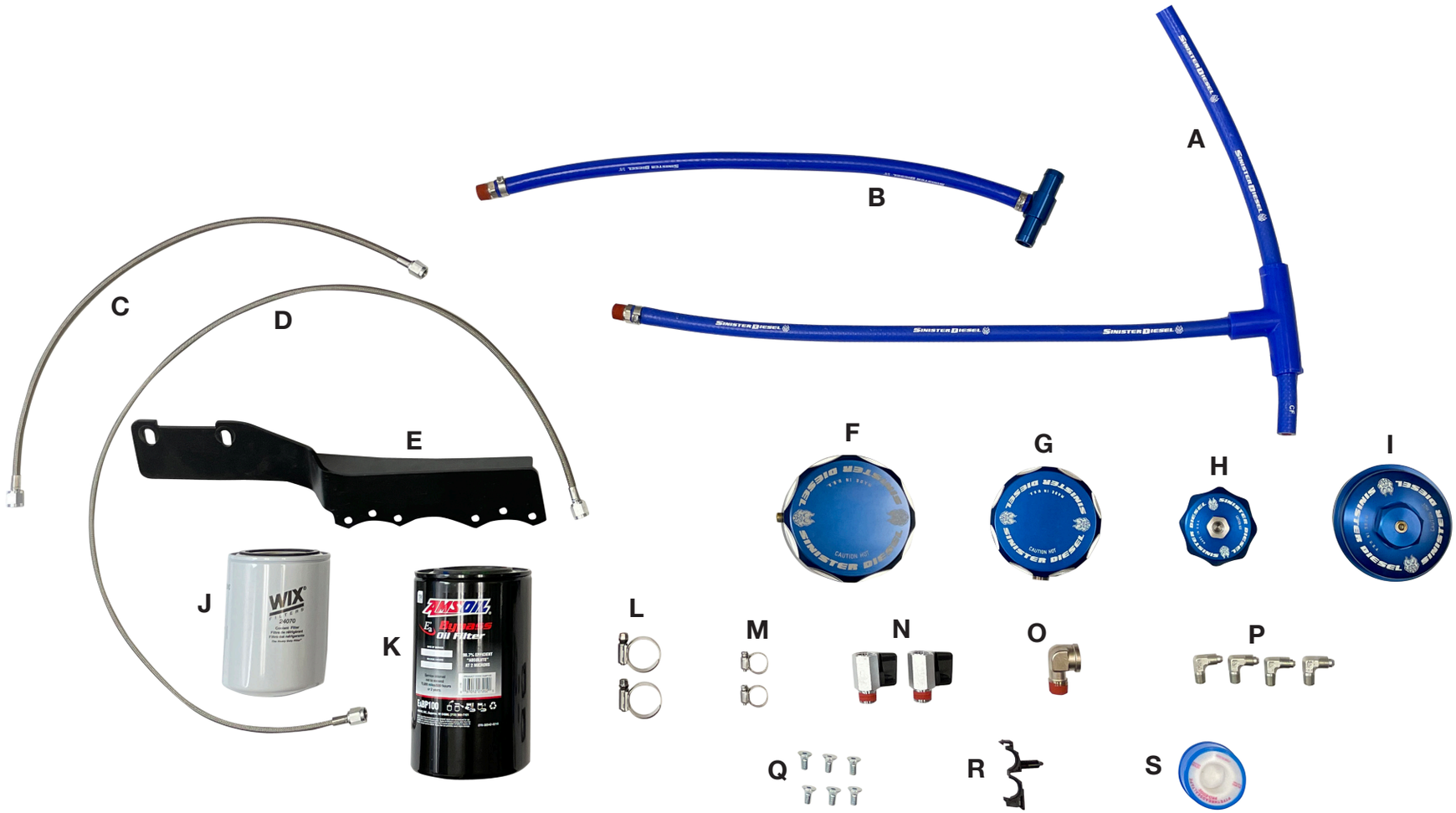
3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.

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.

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.

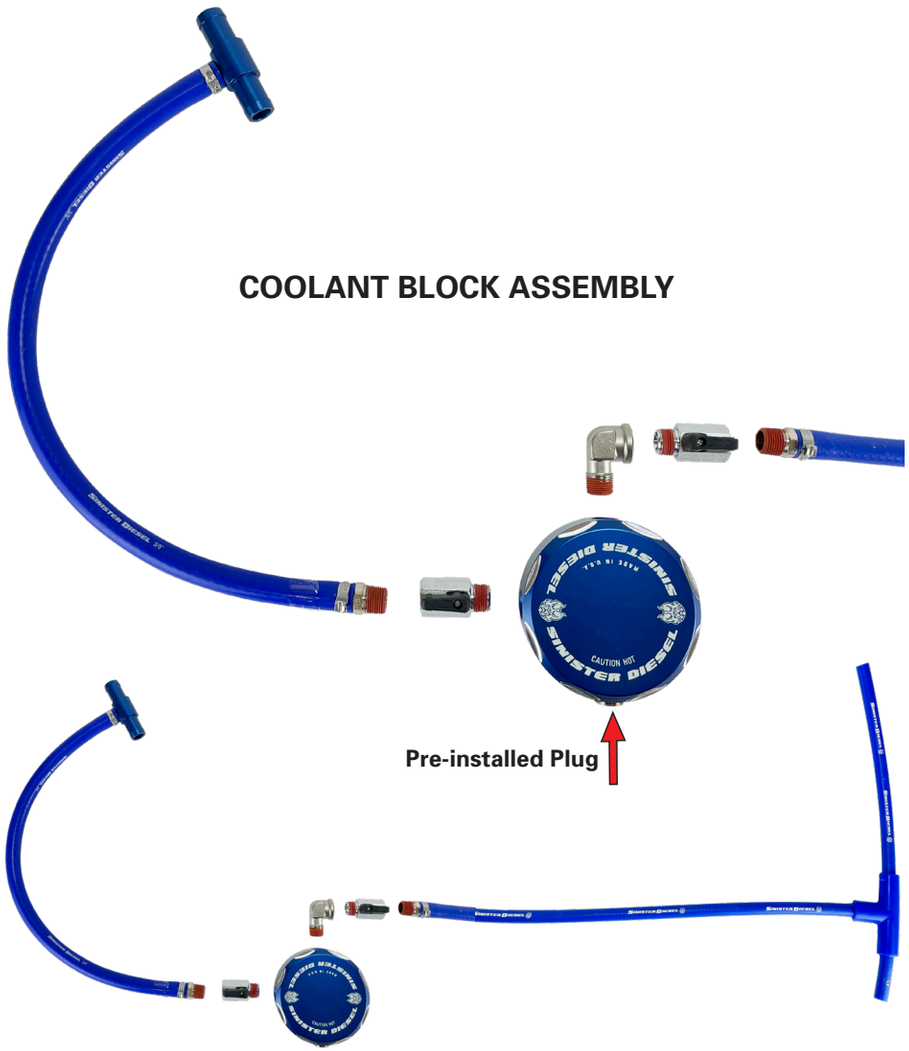


PART:	DESCRIPTION:	QTY:
A	3/8" Molded T Silicone Hose	1
B	3/8" Silicone Hose (21") w/ Aluminum Blue T	1
C	Short Braided Line (22.5")	1
D	Long Braided Line (43")	1
E	Filter Blocks Bracket	1
F	Oil Filter Block	1
G	Coolant Filter Block	1
H	Oil Filler Cap	1
I	Oil Filter Cap	1
J	WIX Coolant Filter	1

PART:	DESCRIPTION:	QTY:
K	Amsoil Oil Filter	1
L	#10 Hose Clamps	2
M	#5 Hose Clamps	2
N	3/8" NPT Ball Valves	2
O	3/8" 90 degree Fitting	1
P	1/8" 90 degree Barbed Fitting	4
Q	1/4- 20 x 5/8" Flat Head Cap Screw	6
R	Plastic Hose Clip	1
S	Teflon Tape	1

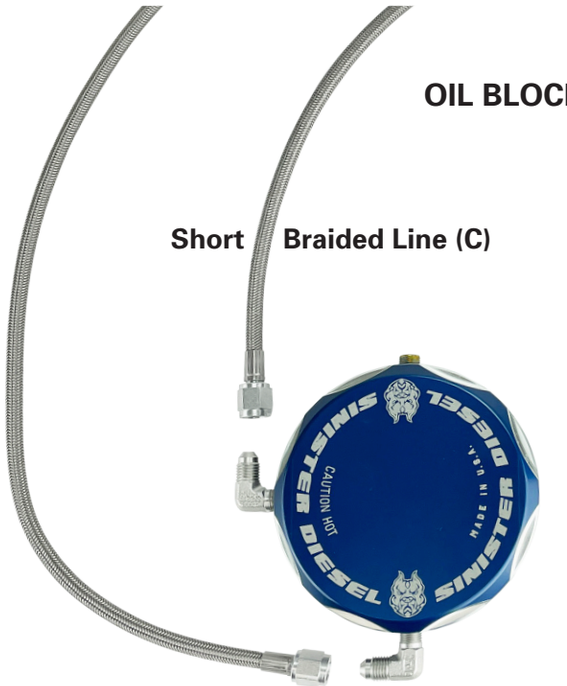
Orientate all lines and fittings as shown. Make sure to only tighten into place. Any loosening of the tappered thread fittings will cause leaks!

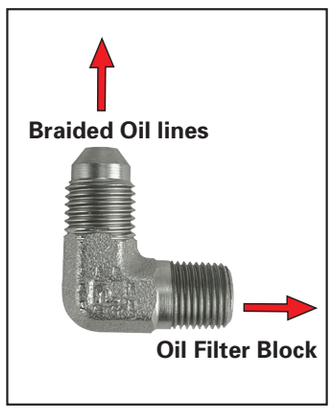
COOLANT BLOCK ASSEMBLY

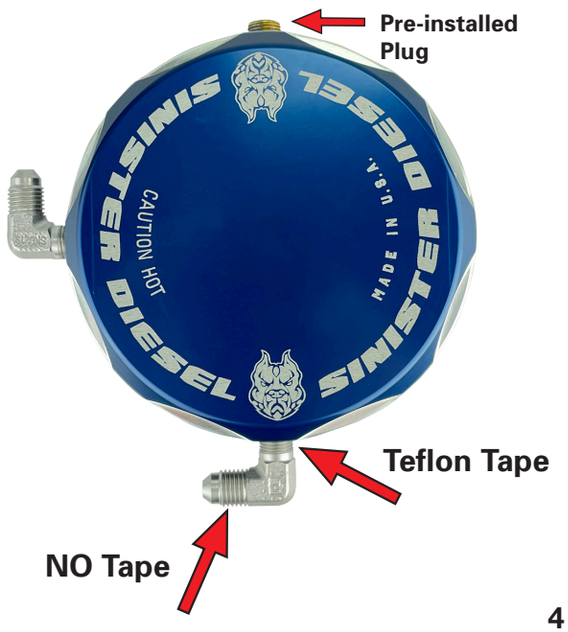


- Attach the ball valves (N) to the coolant lines.
- Attach the 3/8” 90 degree fitting (O) with teflon tape (S) into the top of the round block (G)
- Attach the line that has the molded “T” intersection (A) into the 3/8” 90 degree fitting (O).
- Attach the line that has the blue metal “T” fitting (B) into the side port of the block.

OIL BLOCK ASSEMBLY







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 batteries.

2 Drain engine oil and coolant.

3 Assemble coolant filter block with all valves and lines according to the coolant line assembly diagram on previous page 3.

4 Apply thread seal tape (S) to the 90° fittings and thread into oil filter block (F) as shown on page 4.

5 Attach both assembled blocks to bracket (E) using the 6 supplied 1/4" bolts (Q) (Image 1)

IMAGE 1

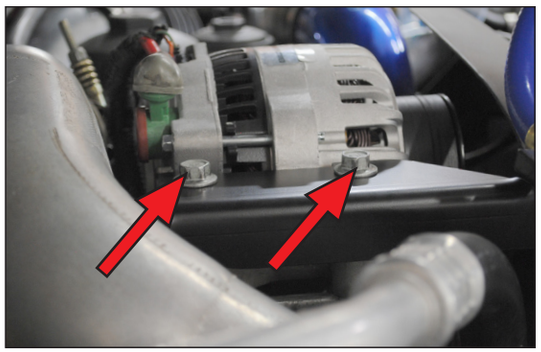


IMAGE 2

IMAGE 3

6 Remove the passenger side alternator bolts and install bracket (E) (with assembled blocks). Snug alternator bolts, but do not fully tighten at this time. (Image 2)

7 Route the hose (A) from the top of the coolant filter block across the engine bay and attach the short end off the molded "T" to the coolant overflow spout on radiator with provided small clamp (M). Then attach longer end to the degas bottle with the other small clamp (M). (Image 3)

8 Route hose (B) from side of the coolant filter block over factory steel charge pipe and around the engine oil fill tube. Splice aluminum "T" into heater core line and secure with provided large hose clamps (L). If vehicle is equipped with rear air/heat (i.e. valve in heater hose) tee into the motor side of the valve. (Image 4)

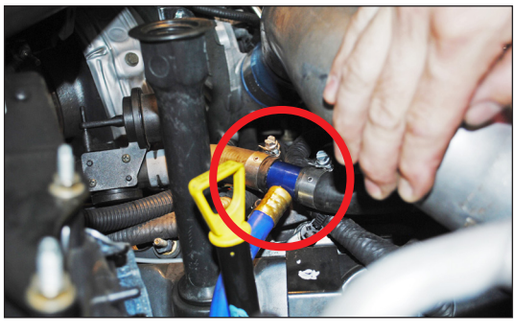


IMAGE 4

IMAGE 5

10 Using a 36mm or crescent wrench remove the OEM filter cap and filter. (Image 5)

11 Apply thread seal tape (S) to the two remaining 90° fittings (refer to page 4). Install one 90° fitting (P) into the Sinister oil filler cap (H) and the other 90° fitting (P) into the Sinister oil filter cap (I).

12 Remove OEM oil filler cap.

13 Before installing the new oil filter cap, ensure the O-ring is properly seated in the correct O-ring groove. (Image 6)

14 Snap either a new oil filter or the old filter securely into place in the new Sinister Oil Filter Cap (I). Using new engine oil lubricate O-ring and install new Cap and filter assembly. (Image 7)

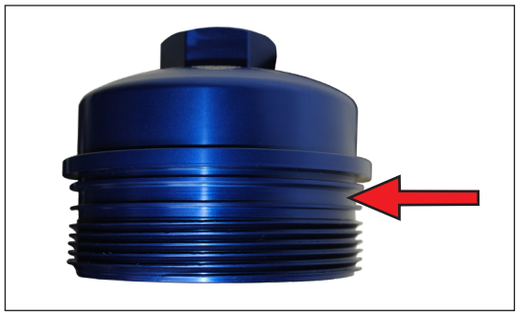


IMAGE 6

IMAGE 7

IMAGE 8

15 Using a 9/16" wrench, attach the long stainless steel oil line (D) to the 90° fitting that is threaded into the "in" (top) port on the oil filter block (F). Route the oil line to the oil filter cap (I). Using the same wrench, attach the oil line to the 90° fitting that is threaded into the oil filter cap. (Image 8)

16 Install Sinister oil filler cap. Using a 9/16" wrench, attach the short stainless steel oil line (C) to the 90° that is threaded into the "out" (side) port on the oil filter block. Route the short oil line to the oil filler cap (H). Using the same wrench, attach the oil line to the 90° fitting that is threaded into the oil filler cap (H). (Image 9)

Note: DO NOT use thread sealing tape on the (4) AN fittings that the stainless steel oil lines attach to.

17 Use zip ties to secure stainless braided lines together and away from engine components. Cover any contact points with the provided wire loom. (Image 10)

IMAGE 9

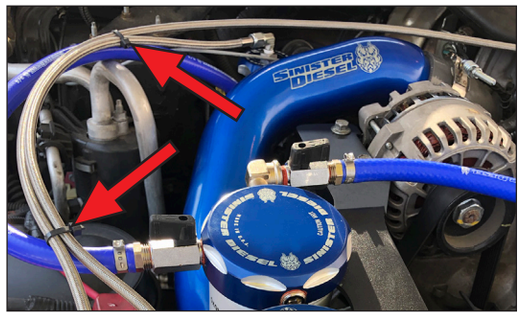


IMAGE 10

18 With everything in place and secure, fully tighten alternator bolts.

Note: Before installing each filter make sure to lubricate the O-rings with oil (oil filter) and oil or petroleum jelly (coolant filter). Doing so will ensure a tight seal and easier removal. If this is not done, the filters will have a high risk of leaking.

19 Install the coolant filter (J) and the oil filter (K). Fill the systems per Ford factory specifications.

20 Re-connect the batteries and start the vehicle. After letting the truck run for a few minutes, shut the engine off and inspect for any leaks. Check the oil and coolant level and add fluids accordingly.

Your Sinister Oil/Coolant Filter Kit 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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