

INSTALLATION INSTRUCTIONS

PRODUCT: 1998.5 – 2002 Dodge Cummins Auxiliary Fuel Filter and Line Kit

FPE-2019-35
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FITMENT: 1998.5 – 2002 Dodge Cummins

KIT P/N: FPE-34780

EST INSTALL TIME: 2 hours

TOOLS REQUIRED: 10mm socket or wrench, 11mm socket or wrench, 13mm socket or wrench, 17mm socket or wrench, 21mm socket or wrench, 13/16" socket or wrench, diagonal cutters.

KIT CONTENTS:

Item	Description	Qty
1	Donaldson 3 Micron Fuel Filter	1
2	Single filter base mount	1
3	Distribution filter block to filter coupler	1
4	-8 to 3/4"-16 straight fitting	2
5	3/4"-16 hex plug socket	1
6	M12 to -8AN fitting	1
7	-8, 45deg to hose barb fitting	2
8	-8, 120 deg to hose barb fitting	1
9	1/8" NPT socket plugs	2
10	1/2" push lock hose	16 ft
11	12mm sealing washer	1
12	Zip ties	10

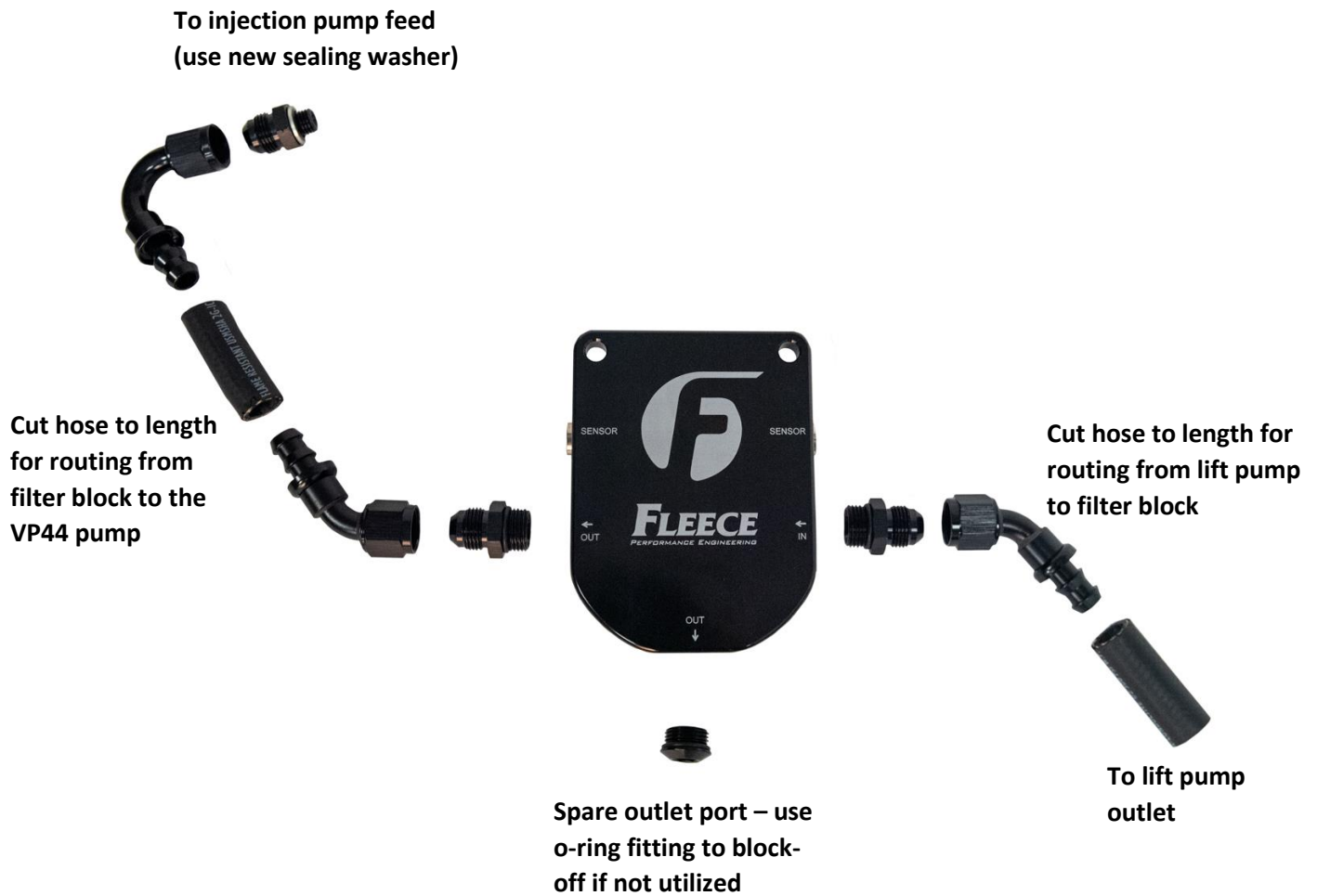


IMPORTANT NOTES:

- This kit requires the use of an aftermarket lift pump. This kit will **NOT** work with an OE or aftermarket sending unit.
- If your vehicle has a water in fuel (WIF) sensor on the OE fuel bowl, you will need to purchase Donaldson part number or Fleece part number FPE-DON-SEN-0309

WARNINGS:

- Fuel Lines must be clean before installation.
- Use of this product may void or nullify the vehicle's factory warranty.
- The purchaser and end user releases, indemnifies, discharges, and holds harmless Fleece Performance Engineering, 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. Fleece Performance Engineering, Inc. will not be liable for any direct, indirect, consequential, exemplary, punitive, statutory, or incidental damages or fines cause by the use or installation of this product.



FILTER BLOCK AND PLUMBING INSTRUCTIONS:

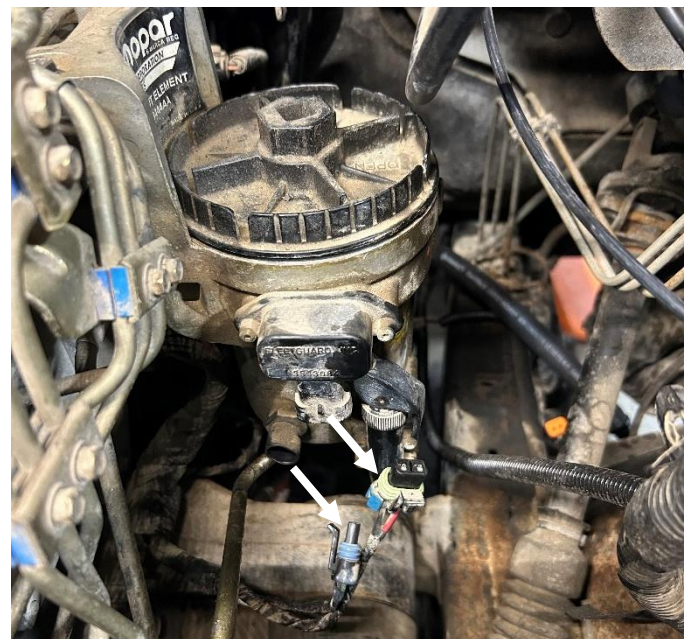
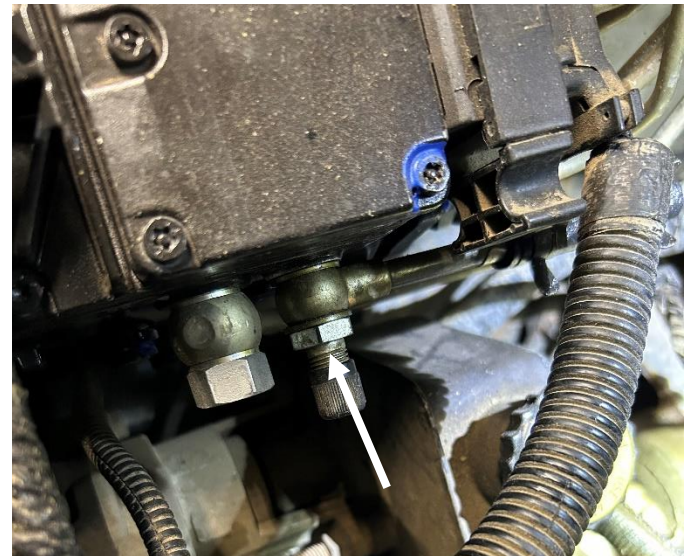
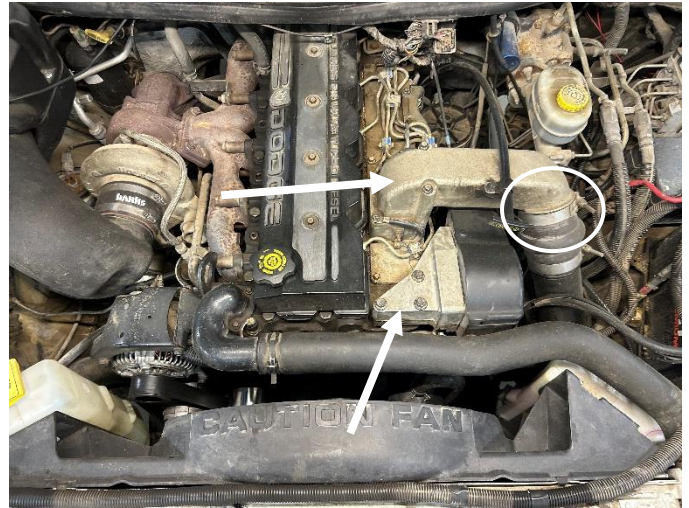
STEP 1: Using an 11mm socket, loosen the hose clamp on the charge tube shown circled at right. Use a 10mm socket to remove the four bolts retaining the intake horn as well as the bolt retaining the oil dipstick. Remove the intake horn.

STEP 2: Using a 13mm socket, remove the three bolts retaining the APPS module on the front driver's side corner of the engine. Place the APPS module to the side.

STEP 3: Using a 17mm socket, remove the banjo bolt connecting the fuel feed line from the fuel bowl to the VP44.

STEP 4: Locate the OE fuel bowl on the driver's side of the engine block. Disconnect the water in fuel (WIF) sensor and the fuel heater connectors.

NOTE: This kit does not include a provision for the fuel heater. You will need to wrap the fuel heater connector in electrical tape.



STEP 5: Disconnect the fuel feed line on the rear-facing side of the fuel bowl. Use a rag to capture any spilled fuel. Using a 10mm socket or wrench, remove the two bolts retaining the fuel bowl to the engine block. Remove the fuel bowl.

NOTE: The two bolts removed from the fuel bowl mount will be reused when mounting the Fleece Performance filter base.



STEP 6: Place the 12mm sealing washer on the M12 threaded side of the M12 to -8 AN adapter and install into the feed port on the VP44. Use a 21mm socket or wrench to tighten the fitting.

NOTE: Ensure that the original sealing washer has been removed



STEP 7: Remove the original fuel line and route the new fuel line from the lift pump to the filter block housing. Retain the fuel line to the chassis using zip ties. Avoid routing the line near moving components.

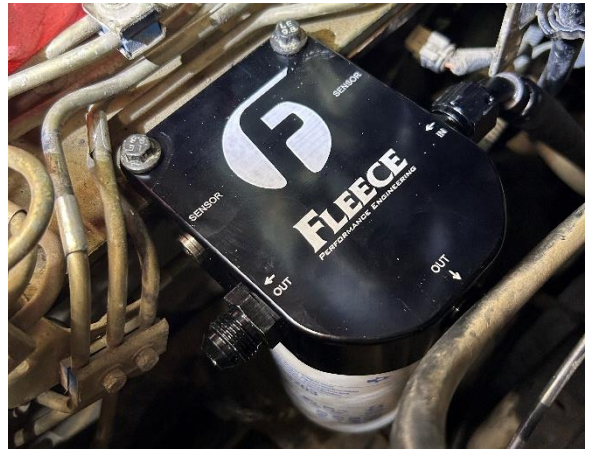
STEP 8: Install the two -8 AN to 3/16"-18 fittings onto the new Fleece Performance fuel filter base using a 13/16" socket or wrench. Install the included o-ring plug into the spare outlet port.



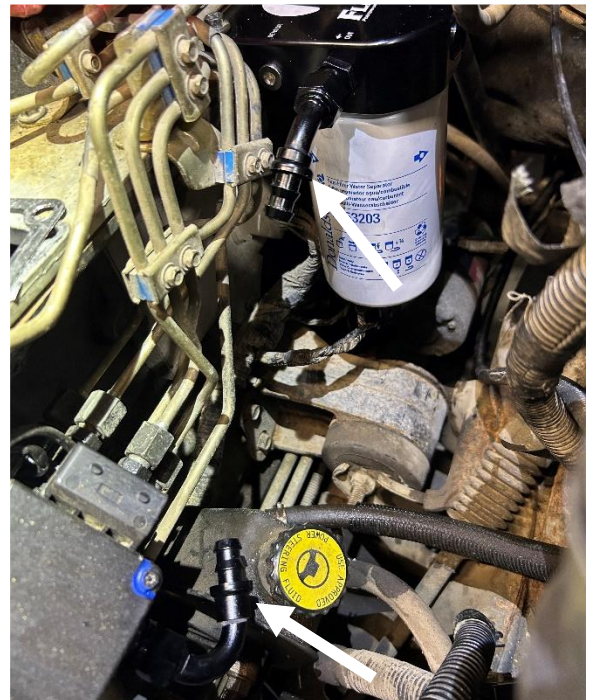
STEP 9: Install the filter O-ring onto the filter base threaded snout. The Donaldson filter included with the kit includes a water drain. If desired, the Donaldson WIF sensor can also be utilized in place of the drain (FPE P/N: FPE-DON-SEN-0309). Install the filter onto the new filter base. Installation of WIF sensor shown at right.



STEP 10: Using the two 10mm bolts removed from the OE fuel bowl, mount the new filter base. Install the fuel feed line running from the lift pump on the rear-facing side of the filter base. If you are using a WIF sensor, reconnect the WIF sensor plug.



STEP 11: Install the 120-degree pushlock fitting onto the adapter previously installed on the VP44. Install the 45-degree pushlock fitting onto the "OUT" port on the front side of the new fuel filter housing.



STEP 12: Measure and cut the remaining hose to the length needed. Route the fuel hose from the filter block to the VP44 as seen at right.

STEP 13: Reinstall the intake horn, APPS, and oil dipstick. Reconnect the charge tube to the intake horn.

STEP 9: Bleed and prime the fuel system. Start the vehicle and check for leaks.

