

Installation Manual
P/N MK20307-CHMB



2003-07 5.9L DODGE CUMMINS
MK-2 Micro-Kleen System + BLK
Cylinder Head Mount

Installation Instructions

P/N MK20307-CHMB
2 Micron + Big Line Kit Cylinder Head Mount Installation

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Safety Guidelines!

WARNING! Always secure the vehicle from rolling.

WARNING! Always disconnect vehicle batteries before working on electrical components.

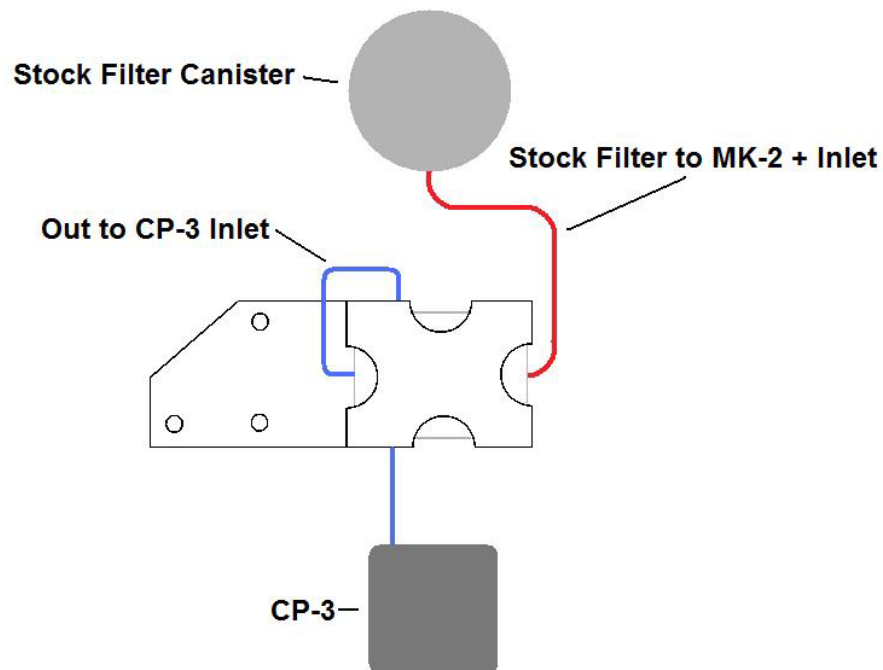
WARNING! Always wear safety glasses when operating power tools such as drills and grinders or using punches and chisels.

WARNING! Always properly secure fuel lines and wiring to prevent chaffing.

WARNING! Always have a fire extinguisher available when working with fuel systems.

PLEASE WORK SAFELY!

MK-2 + BLK Cylinder Head Mount Hose Routing



MK-2 Micro-Kleen + Big Line Contents

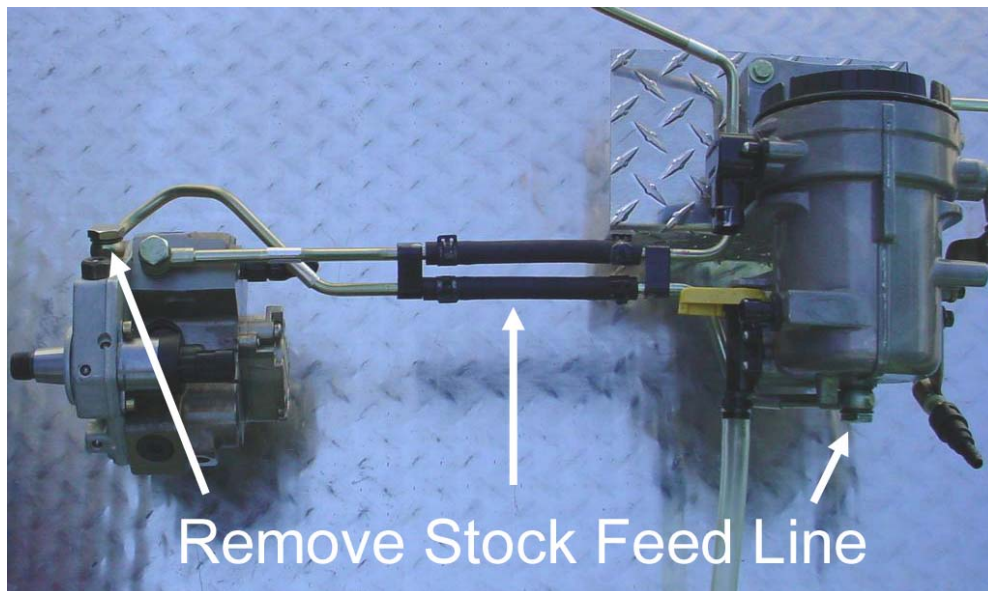


| <u>Qty</u> | <u>Item Description</u> |
|------------|--|
| 1 | GDP Cylinder Head Mounting Bracket |
| 1 | Optional Red Backing Plate |
| 1 | Fleetguard Filter Head |
| 1 | Fleetguard FF5320 2 micron Fuel Filter |
| 4 | 3/8" Mounting Bolts and Lock Washers |
| 3 | 10mm Cylinder Head Mounting Bolts |
| 4 | 90° FJIC x 3/8" PushLok Fittings |
| 2 | 1/2" MPT x MJIC Adapters |
| 2 | GDP Stainless Metric to MJIC Adapters |
| 2 | Cummins Seal Washers |
| 1 | GDP Aluminum Sender Tee |
| 1 | 8' Section 3/8" Parker PushLok Hose |
| 2 | 3/8" Hose Clamps |

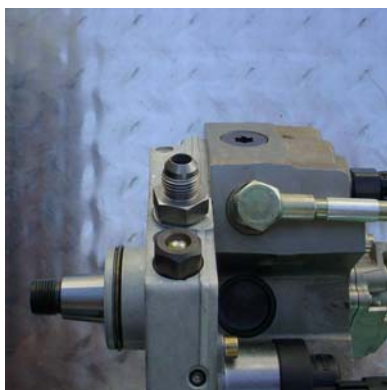
Please check your parts inventory against the above parts list before beginning your installation.

Preparation

- 1) Secure vehicle from rolling.
- 2) Disconnect both batteries.
- 3) Raise vehicle and support safely if needed.
- 4) Drain fuel filter housing into an approved container via the water/fuel separator.
- 5) Prepare for your installation by removing the entire supply line assembly from the bottom of the filter housing to the injection pump inlet.



- 6) Install one of the metric adapters in the bottom of the stock fuel filter housing using the supplied Cummins sealing washer. Install the other in the inlet of the injection pump. Tighten both adapters. (See photos on the following page)



CP-3 Inlet Adapter

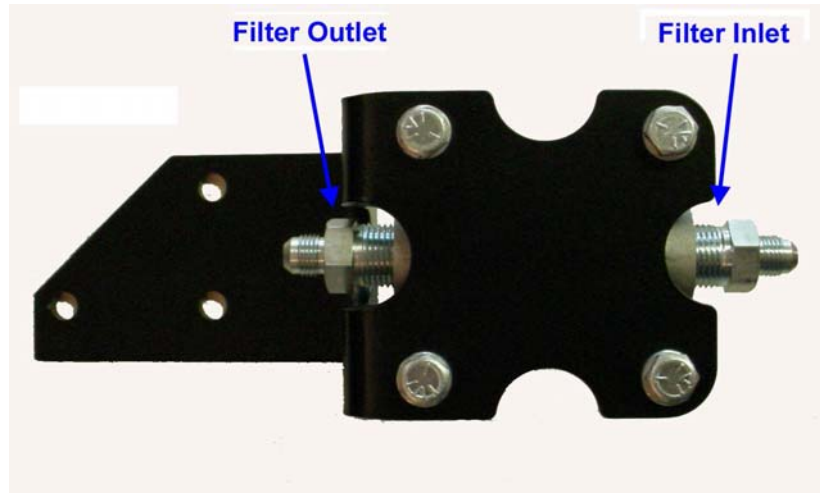


Fuel Filter Outlet Adapter

MK-2 + Big Line Installation

- 7) Install the MJIC adapters in the filter head using thread sealant or thread tape and tighten.

- 8) Assemble the filter head (and optional red backing plate if you choose) to the bracket using the supplied 3/8" mounting bolts and lock washers as shown. Make sure that the flow direction arrows will be facing the inside of the vehicle when mounted and the port marked "Outlet" will be facing the engine.



- 9) Remove the wiring harness bracket shown. Install the MK-2 bracket to the engine block using the supplied metric fasteners and tighten. (6.7L shown)



- 10) Install one 90° PushLok fitting in the supplied hose making sure that it is fully seated. Connect this fitting to the adapter at the bottom of the stock fuel filter housing. Route this hose up to the outside (inlet) of the MK-2.

- 11) Install another 90° PushLok fitting on the adapter at inlet port (outside) of the filter head to measure for hose length. Measure the new hose coming from the bottom of the filter housing and cut to length. Install the 90° PushLok fitting in the end of the new supply line from the bottom of the stock filter. Reattach the 90° fitting to the inlet of the 2 micron filter head and tighten.

- 12) Using the remaining portion of fuel line repeat the connections steps for the MK-2 outlet to injection pump inlet adapter.

- 13) Install the filter onto the head and tighten.

Finishing Up

- 14) Secure all hoses.
- 15) Prime the system by bumping the starter but do not allow the vehicle to start. Wait 20 seconds or until the pump shuts off. Repeat this step three times to purge all air from the fuel system.
- 16) Start the engine and verify fuel pressure.
- 17) Check all connections for leaks and make sure all hoses are clear of moving parts.
- 18) Test drive the vehicle.

Completed MK-2 + BLK (Cylinder Head Mount) Shown Below



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