

Installation Manual  
P/N MK21012-BLK



‘10-‘12 DODGE CUMMINS  
**MK-2 Micro-Kleen System**  
**+ Big Line Kit**

Installation Instructions

P/N MK21012-BLK  
2 Micron Fuel Filter with Big Line Kit 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 Micro-Kleen + Big Line Contents



### Qty Item Description

- 1 GDP 6.7L Mounting Bracket
- 1 Red Backing Plate
- 3 10mm Mounting Bolts
- 1 Fleetguard Filter Head
- 1 Fleetguard FF5320 2 micron Fuel Filter
- 4 3/8" Mounting Bolts and Lock Washers
- 1 Straight FJIC x 3/8" PushLok Fitting
- 2 90° FJIC x 3/8" PushLok Fittings
- 2 1/2" MPT x MJIC Adapters
- 1 GDP Stainless Metric Adapters with O-rings
- 1 GDP Quick Connect Hose Adapter
- 1 GDP Aluminum Sender Tee
- 3 3/8" Hose Clamps
- 1 8' Section 3/8" Parker PushLok Hose

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

## Preparation

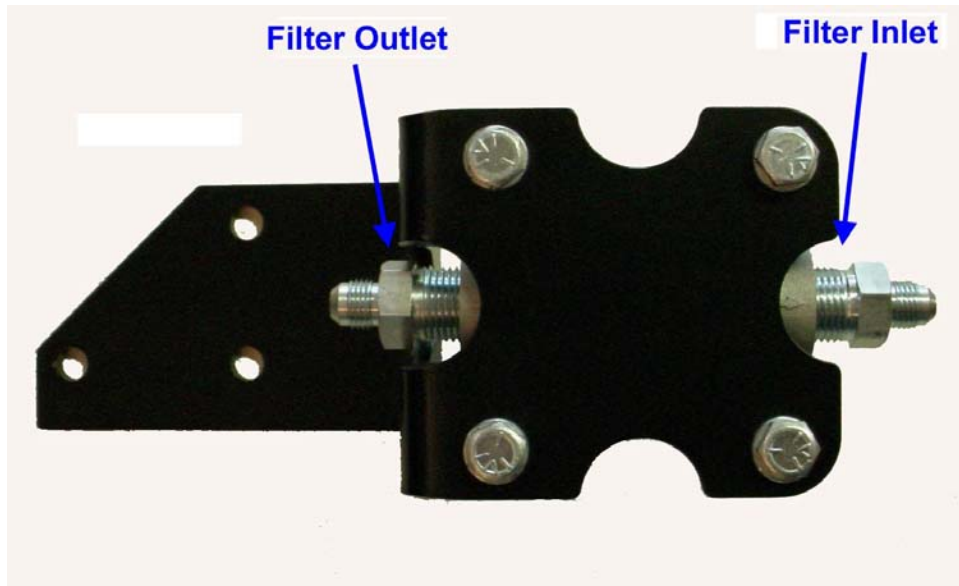
- 1) Secure vehicle from rolling.
- 2) Disconnect both batteries.
- 3) Raise vehicle and support safely if needed.
- 4) Drain fuel filter housing into an approved container via the water/fuel separator.
- 5) Prepare for your installation by removing the plastic cover plate and EGR crossover tube.
- 6) Remove the factory feed line and fittings from the stock filter canister to the CP-3 inlet.



## MK-2 + Big Line Installation

- 7) Install 1 metric adapter in the stock filter canister outlet and tighten. Install 1 metric adapter in the CP-3 inlet and tighten.
- 8) Install the MJIC adapters in the filter head using thread sealant or thread tape and tighten.
- 9) Assemble the filter head to the bracket using the supplied 3/8" mounting bolts and lock washers as shown. Optional red backing plate may be installed at this time. 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.

Reference Photo Shown on Page 5



- 10) Remove the wiring harness bracket shown. Install the MK-2 bracket to the cylinder head using the supplied metric fasteners and tighten.



- 11) Install the GDP Quick Connect fitting in one end of the supplied hose making sure that it is fully seated. Secure with the supplied hose clamp. Connect this fitting to the bottom of the stock fuel filter housing as shown below. Route this hose up to the driver's side (inlet) of the MK-2.



- 12) Loosely install another 90° PushLok fitting on the adapter at the drivers side inlet port of the filter head to measure for hose length. Angle the fitting straight down and under the intake manifold. 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. You may find it easier to remove the line from the truck for this step. Reattach the 90° fitting to the inlet of the 2 micron filter head and tighten.
- 13) Install the supplied metric adapter in the CP-3 inlet. Install the straight PushLok fitting in the supplied hose making sure that it is fully seated. Connect this fitting to the metric adapter at the inlet side of the CP-3. Route this hose up and over the intake horn to the outlet of the MK-2.

- 14) Loosely install another 90° PushLok fitting on the adapter at the outlet port of the filter head to measure for hose length. Angle the fitting straight back towards the stock filter housing. Measure the new hose coming from the CP-3 and cut to length. Install the 90° PushLok fitting in the end of the new line to the CP-3. Reattach the 90° fitting to the outlet of the 2 micron filter head and tighten.
- 15) Install the filter onto the head and tighten.

Completed MK-2 installation shown below



## Finishing Up

- 16) Reinstall the EGR crossover tube and plastic cover if removed for installation.
- 17) 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.
- 18) Start the engine and verify fuel pressure.
- 19) Check all connections for leaks and make sure all hoses are clear of moving parts.
- 20) Test drive the vehicle.

Thank you for your purchase of the GDP 6.7L MK-2+ filter system. If you have any problem or questions please contact us at 509-993-4923. Thank you for your business and we look forward to helping you with your future accessory needs.

Richard Martin  
GDP



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