

Installation Manual
P/N MK20306-RM



1998.5 - 07 DODGE CUMMINS
MK-2 Micro-Kleen System
Remote Mount

Installation Instructions

P/N MK20306-RM
Remote Mount 2 Micron Fuel Filter 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.

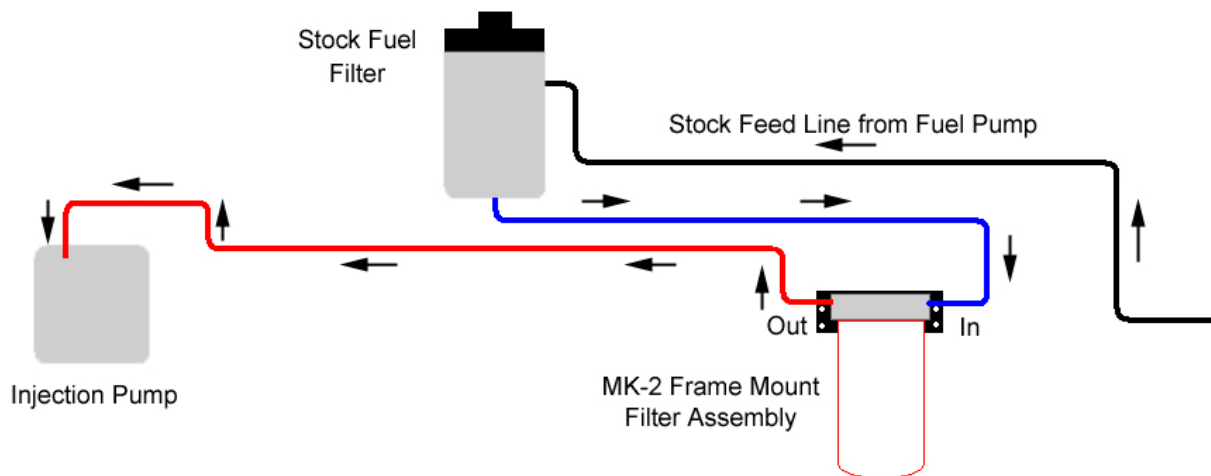
WARNING! Always wear safety glasses when operating power tools such as drills and grinders or using punches and chisels.

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 Remote Mount Line Routing



MK-2 Micro-Kleen Remote Mount Contents



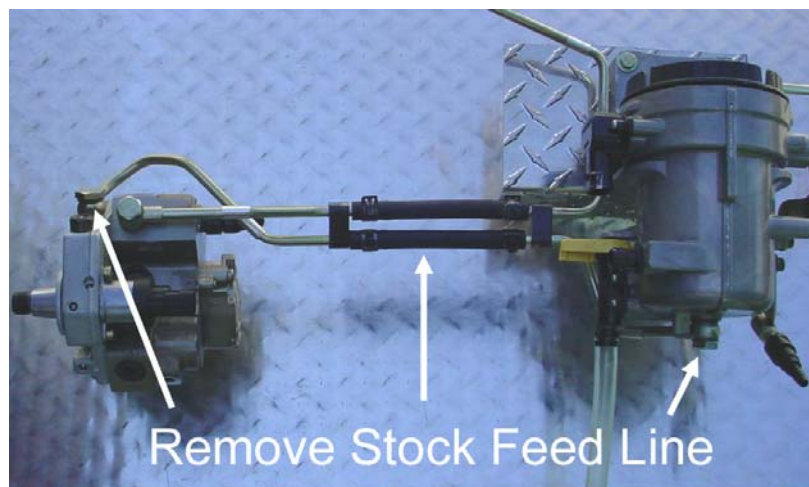
Qty Item Description

1	GDP Universal Frame Mounting Bracket
1	Fleetguard Filter Head
1	Fleetguard FF5320 2 micron Fuel Filter
4	3/8" Mounting Bolts and Lock Washers
4	5/16" Self Threading Screw
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	20' 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.

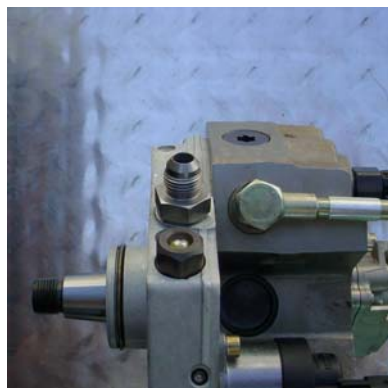
Preparation

- 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.



3rd gen shown. 2nd gen similar

- 6) Install one of the metric adapters in the bottom of the stock fuel filter housing using one Cummins sealing washer. Install the other in the injection pump inlet using the other sealing washer. Snug both adapters. There is no need to over-tighten



CP-3 Inlet Adapter



VP44 Inlet Adapter



Fuel Filter Outlet Adapter

MK-2 Micro-Kleen Remote Mount Installation

- 7) Choose a suitable location to mount the filter. The most common area is along the outside of the frame rail under the driver's feet. If you have room you may be able to mount the bracket on the inside of the frame rail. The bracket is designed to place the filter as high as possible for ground clearance. Make sure that you have at least 3/4" clearance between the top of the bracket and the bottom of the cab floor for the heads of the filter mounting bolts.
- 8) Use the bracket to mark the location of the new mounting holes. Pre-drill 1/4" holes for the 5/16" self threading screws. You may find it easier to run the screws in and out one time to precut threads before mounting the completed filter head and bracket assembly.
- 9) Attach the filter head to the mounting bracket using the supplied mounting bolts and lock washers as shown and tighten.
- 10) Mount the bracket and head assembly to the frame using the four 5/16" self threading screws.
- 11) Install the 1/2" MPT to MJIC adapters in the filter head and tighten. We strongly recommend the use of a thread sealer on the adapter to filter head threads to avoid minor leakage.
- 12) For the following steps you will be using PushLok hose fittings. To make these fittings easier to assemble heat the hose end with a heat gun or place the hose end in a cup of near boiling water. Apply a single drop of light oil such as motor oil or transmission fluid to the barbed end of the fittings. These two steps will make the hose much easier to push over the fitting barbs.
- 13) 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 facing the rear of the truck. Route this hose back to the port on the filter head marked "IN".
- 14) Loosely install another 90° PushLok fitting on the adapter at "IN" port of the filter head to measure for hose length. Angle the fitting towards the top of the frame. Measure the new hose coming from the bottom of the filter housing and cut to length. Remove the 90° PushLok fitting and install in the end of the new line. Reattach the 90° fitting to the inlet of the 2 micron filter head and tighten.



- 15) Install the 2 micron filter and tighten.
- 16) Install a 90° PushLok fitting in one end of the remaining hose. Attach the hose to the adapter in the “OUT” side of the filter head. Route the hose up the metric adapter in the injection pump inlet and cut to length.
- 17) Pull the loose hose end back out from under the vehicle. Place the end of the hose in an approved container and bump the starter. This will prime the filter without pushing excess air into the injection system and clean the inside of the new supply line.

Note: We strongly recommend priming the system before making the final hose connection at the injection pump inlet. This will remove any small particles in the outlet line from the installation that would go straight to the injection pump.

- 18) Install the final 90° PushLok fitting in the end of the freshly cleaned supply line and make the connection to the injection pump inlet adapter.

Finishing Up

- 19) Secure all hoses.
- 20) 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 twice to purge remaining air from the fuel system.
- 21) Start the engine and verify fuel pressure.
- 22) Check all connections for leaks and make sure all hoses are clear of moving parts.
- 23) Test drive the vehicle.

The supplied aluminum pressure tee can be placed anywhere in the new fuel lines that offers easy sender access.

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