

## Cummins Dual Filter Kit Installation



Thank you for your purchase. We appreciate your business, and are confident you made a great decision to protect your fuel system for many future miles! If you have any questions with the install, please email us at [info@dieselfuelfilterkits.com](mailto:info@dieselfuelfilterkits.com) and we will respond as quickly as possible to get you taken care of.

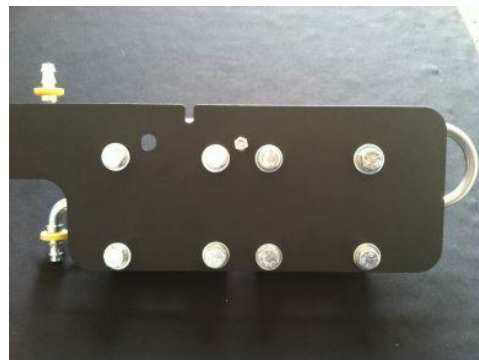
**Install:** Moderately easy, and takes approximately 45-60 minutes depending on your mechanical ability.

**Tools Needed:** Basic wrenches, 4mm Allen wrench and provided mini tube-cutter.

**STEP 1.** Begin by assembling the filter bases together and mounting them to the bracket on a table or workbench. Use the -10 to -10 joiner fitting to join the filter bases together. One side of the -10 joiner is non-adjustable and the other side is adjustable. Tighten only the non-adjustable side at this time into the filter base. Now spin the second base on up close to the o-ring being sure the arrows on top point the same direction, but do not tighten the adjustable nut down until you get it firmly mounted to the bracket.

**This next step is very important!**

**STEP 2.** The arrows on the top of the filter bases need to point to the wider end of the bracket as shown in the left picture below for proper fuel flow. Use the eight 3/8x1-1/4" bolts, flat washers and lock washers supplied to firmly mount the bases to the bracket, tightening them down with a 9/16" wrench. Now go ahead and tighten the adjustable side of the -10 joiner from STEP 1 above. Install both of the -10 to -6 fittings in each end of the bases and tighten them down. Do not install the "J" tube yet!



**STEP 3.** Now it's time to get the truck ready for installation. Remove both seat bolts from the rear of the driver's seat. Install the new bolts provided with the hardened washers and torque them to manufacturer specifications. Now go under the truck and install the locking shaft-collars on the seat bolt factory nuts using a 4mm Allen wrench. Refer to the pictures on next page.



**STEP 4.** Install the assembled bracket over the top of the frame rail and locate it on both new seat bolts. Using the 12mm Nyloc nuts provided, tighten the bracket up against the locking shaft-collars you just installed. Now install the “J” tube as shown above in relationship to the bracket by tightening it 265in/lbs (22ft/lbs) or approximately 2-3 nut flats. Install the clamp mid-way down the “J” tube with the standoff riser under it to hold it down off of the bracket.



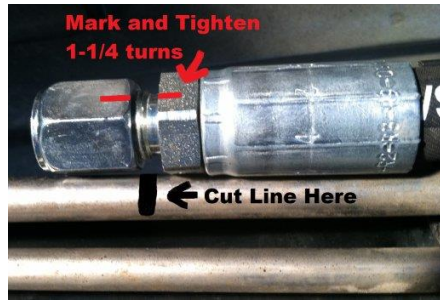
**STEP 5.** Spin on, but do not tighten, both 90-degree Push-Loc fittings with hoses on the end of the “J” tube and the filter base. Determine how much of the steel fuel line you will need to remove by holding them up to the top, bigger 3/8” steel fuel supply line running inside the frame rail. Hoses may be shortened if needed.

**SHORT-BED NOTE:** The stock steel fuel line will get cut right beside filter and the hose will make a “U” shape up to the 90\* fitting. You may need to cut the hose shorter and point the 90\* slightly down to avoid kinking as indicated in the below picture

Short-Bed only



You want to make sure your cuts are at the base of the threads on the compression fittings on each side of the filter base. Once you have both of your cut-lines marked, pull the steel line out of the frame holders and away from the frame and cut that section out between your marks using the small tube cutter provided. (Later models will have a factory coating on the fuel line we recommend you clean off with emery cloth or similar before cutting to be able to slide the compression sleeves over the line.)



**STEP 6.** Discard the steel line you cut out. Deburr the ends and slide the nuts and compression sleeves onto the steel line. Only install and tighten the rear compression fitting and hose for now. Now insert the rear steel line as far down inside the compression fitting as it will go and hand tighten the nut on the fitting being sure to hold the steel lines down inside the fitting bottomed out. When it is finger tight, mark the nut and the fitting as shown in the picture above. You will only tighten the nut to the fitting 1-1/4 turns to compress the compression sleeve inside.

*(NOTE: The shoulder on the compression sleeve faces the nut if it happens to fall out and you are not sure which direction it goes on the fuel line).*

Before installing the front compression fitting to the front steel line, we will want to install and fill the new filters with fuel. Install both filter and hand tighten them being sure to lube the top rubber gasket on each filter so they're easier to remove next time. Install the FS1212 filter closest to the frame using the O-ring it came with over the filter base nipple. The FF5814 filter does not require an O-ring for installation.

**\*\* BE CAREFUL NOT TO CROSS-THREAD OR OVERTIGHTEN THE FILTERS. \*\***

With the front hose and fittings coming off of the "J" tube still loose, let it hang straight down. Now place a container or bucket underneath the hanging hose on the floor and turn the key on (or bump the starter) to get the fuel pump priming for up to 20-30 seconds to fill the filters and purge the air out (this is assuming you have an in-tank pump). You should be able to hear the fuel pump running. Once fuel starts pumping into the container or bucket, turn key off and install forward compression fitting repeating the same procedure above as the rear one. Don't forget to tighten the 90-degree fitting coming off the "J" tube 265in/lbs (22ft/lbs). Recheck all fittings for tightness and cycle key on and off a couple more times until the pump stops running to purge remaining air back to tank. Start truck and check for leaks.

*NOTE: On '03-'04.5 trucks with the fuel pump up front on the back side of the stock filter housing, you may need to very slightly pressurize the fuel tank to get fuel through the filters and up to the pump for priming.*

*\*\*We recommend that you also run a good fuel additive.*

*\*\* Replace filters every 15,000 +/- miles depending on fuel conditions in your area.*