

K-Trans F1 Filter Adapter for Duramax Engines. Patent Pending.

1. Remove oil filter. You can place a small drip pan under the existing filter, there is only a little over a quart in the filter so a small pan 2 quart or so will do just fine.
2. Let that drain for just a bit. There's a small amount that drains out of the housing almost the whole time you will take to change the adapter. It mostly just drips.
3. With a 15/16" 6 point deep well socket remove the existing filter nipple.

Note: On models before 2011 there are no wrench flats, I used a 1/2" internal pipe wrench to remove the one I encountered. I guess you could use channel locks or vice grips in a pinch but you wouldn't be able to reuse it in case you wanted to revert to the stock. However a new nipple from Chevrolet is only about \$20.00.

4. Clean the filter housing. Wipe it down I don't think it needs to be done with brake cleaner since you won't be able to get it clean enough to use Loctite.
5. Install adapter, torque to 20 Ftlbs.
6. Install filter. Use oil on gasket, hand tight.

Notes:

A. After installing this filter I noticed increased oil pressure to 70 PSI while the oil was cold, and then oil pressure returned to normal. I assume the pressure relief valve was set to 70 psi.

B. The stock filter comes with 2 valves.

1. Anti-siphon valve. The anti-siphon valve keeps oil from draining back through the filter when the engine is shut off and the oil pump is weak. This valve is useful on vertical filters since they sit higher on the block. I'm not really sure if it helps much since the Duramax filter is located at the bottom almost the lowest point on the engine.

2. Bypass valve. I have always worried about a relief valve in an oil filter, since the design is to open if the filter gets clogged, so does this mean the filter is too small for the application and how do you know when the relief valve is open? And yes it does mean you get oil flow to the engine, but again the filter is too small, and sending unfiltered oil through your engine is like sending liquid sandpaper through it, and when did it open?

My goal is to provide the best filtration for your Duramax; I cannot tell you that you can extend your filter life by using this filter. I cannot take any responsibility for how you maintain your vehicle. I take no responsibility for damage due to broken motor mounts Etc... I can only try to provide you an option for better filtration. If you feel uncomfortable with the installation, please don't.

Please send Photos of your truck and filter install to roger@karenstransport.com, doing so implies consent to post photos and videos on <https://karenstransport.com>.

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