



### Components:

- BMK-11 AMSOIL By-Pass Filter Kit
- EaBP-90 AMSOIL By-Pass Oil Filter
- EaO-64 AMSOIL Full-Flow Oil Filter
- BK-1202 Aluminum Billet Oil Fill Cap
- Custom fabricated steel brackets
- A GlowShift 13/16-16 Oil Filter Adapter, Product Number: GS-OF13/16-16.

I used the BMK-11 by-pass filter system and created a custom-mounting bracket. The ¼ inch steel bracket placement and holes that were drilled into the frame were critical. There is a factory cut square hole in the frame [viewable in first picture below] and had the bottom bolt not been just where it was I could not have gotten the nut onto the bolt. As it was getting a wrench on to it was difficult. I lined up my bracket on the frame and then used a couple vise grip C clamps and used it as the template and guide to drill the holes into the frame, once the first hole was drilled I bolted it down and then drilled the second hole. I also made a kicker leg for support in ensure that nothing moved or vibrated during travel. It is bolted to the middle bolt on the BK-203 and the other end is bolted under the support leg of the air box. The bend in the support was done in stages to get the correct bend. Once done I scribed the bolt placement through the support leg, and then drilled and cut the 1/8 steel support for length, then touched up the paint job.

The GlowShift oil filter adapter comes per drill with 4, 1/8 NPT Ports [threaded plugs included] which I plan to use at a later date to install an Oil Pressure & [maybe] Temperature gauge. As you can see I used the port towards the rear because it allowed the easiest routing of the oil line. Because the Transmission oil lines are in the way, and will be replaced in the future with custom lines when I install a transmission oil cooler from Flex-a-lite and a Magnefine filter.

I'm running AMSOIL Series 2000 Synthetic 0W-30 Motor Oil, in My Truck. The Plan is to sample oil at 10 months and once the results are received to change the EaO64 at 25,000-miles and then the EaO64 & EaBP90 the following year. Unless the oil analysis says other wise of course.

### Steps:

- Pre-fill both the by-pass and full flow filters with oil and allow it to soak in. [check them from time to time and top off].
- Mount the Custom Bracket to the passenger side frame. Full size blue print available at <http://www.goodoil4u.com/bypassinstalls.html>
- Mount the BK-203 to the Custom Bracket after utilizing a 90° Street Elbow [BP-52], w/Fitting Adapter [BP-208], on the In Port and Fitting adapter [BP-208] on the Out port.
- Install Sandwich adapter, w/Fitting Adapter [BP-208] and 3 of the plugs provided.
- Replace stock engine oil fill cap with billet aluminum cap BK-1202 w/90° Street Elbow [BP-52], and w/Fitting Adapter [BP-208].
- Cut oil line to 22 inches and install the Hose fittings [BP-261] and install.
- Install both filters.







### Start Up Procedure:

1. Check the routing of both hoses and ensure the flow path is correct. From the Sandwich Adapter to In port on the [BK-203], From Out port to the New Oil Fill cap [BK-1202] Correct any mistake.
2. Check that all fitting connections and hoses are securely attached and properly tightened.
3. Check that the oil sampling Petcock valve is closed. [If used]
4. The additional oil necessary after adding this kit is approximately 1 - 2 quarts, including the oil to fill this kit and the oil to replace that lost when removing the existing oil filter. Since these filters are straight up & down you want to pre-fill with oil before starting the engine as noted above. Allowing the engine to run approximately 1/2 to 1 quart low just long enough to fill all the lines throughout the system will not hurt anything. Fill to the full mark on the dipstick.
5. Start the engine and watch the oil pressure [If you have a gauge]. Note that pressure may initially take a moment or two to rise.
6. Check for leaks at fittings, hoses and mounting block assembly. If leaks are observed, STOP THE ENGINE, repair leaks and continue.  
**Note: DO NOT attempt to repair any leaks while the engine is running.**
7. After the engine warms up, shut off and re-check the engine oil level. Fill as necessary.
8. Record the vehicle mileage and date of installation.

**Periodic Maintenance:**

Periodic visual inspection of the fittings and hoses is recommended. Check for leaks, hose deterioration and cuts. Repair and/or replace as necessary. This was actually an easy install for this application because everything is relatively close together and all of the hoses are in view. When you open the hood to check the oil or otherwise, just look at things over...

***Disclaimer:*** These installation examples have been submitted by sources independent of AMSOIL INC. and may not comply with AMSOIL INC. installation instructions or application recommendations.