



CNC Fabrication, LLC 2003-2007 in-line transmission filter by-pass manifold installation instructions for part numbers: 6.0-ETFBM & 6.0-TFBM.

Please carefully read these instructions first to give you an idea on how to install this product. If you feel uncomfortable doing this install, please seek out a professionally trained competent person.

CONTENTS:

1 QTY – MANIFOLD BLOCK

2 QTY – 10.9 GRADE MOUNTING BOLTS

4 QTY – VITON O-RINGS (03-04 WILL HAVE 2 QTY SMALL AND 2 QTY LARGER O-RINGS)

INSTRUCTIONS:

1. Be sure the vehicle has not been recently ran due to hot transmission fluid or other engine components to avoid getting burned. If the vehicle is hot, allow a few hours for the vehicle to cool down.
2. Disconnect battery grounds, as this is always good practice for safety reasons. Chock the tires so the vehicle will not roll on you while you are under the vehicle if you do not have access to a vehicle hoist.
3. Loosen the bolts that hold the filter housing on the backside of the factory bracket, but do not remove the filter housing yet. These bolts can be difficult to loosen and can be a knuckle buster. Leave the factory bracket in place bolted to the frame as it is not necessary to remove it. Place a drain pan under the filter housing area to catch any fluid.
4. If you have the proper quick disconnect tools, use the correct size tool to pop the lines out of the quick connect (aka Bundy) fittings. You do NOT need these tools as you can use open ended wrenches to remove the fittings out of the filter head.
5. After the fittings are removed, use an o-ring pick to remove the old o-rings off of the fittings. Clean the areas of the fittings where the o-rings land on the fittings. Install the provided o-rings and apply some oil to lubricate the o-rings. When installing on the 03-04 vehicles, be sure to install the smaller o-rings on the brass barbs, and the larger o-rings on the quick connect fittings. The 05-07 vehicles have all the same size fittings.
6. Finish removing the factory bolts and remove the filter housing from the vehicle.
7. Use the provided bolts to install the new CNC Fabrication, LLC manifold, and thread the bolts in all the way. Do not fully tighten the bolts yet to help make it easier to align the OEM fittings if they are still on the ends of the tubing to re-install the OEM fittings in the manifold. Be sure the ports are in the same orientation as the factory filter was. Smaller ports (only 03-04) towards the bumper.

8. Thread the re-used fittings with the provided o-rings installed in step 4, and tighten. Do not overtighten as the manifold is aluminum and overtightening can strip the threads out of the manifold.
9. Next, tighten the bolts that hold the manifold to the original factory bracket. Do not overtighten the bolts (torque to 18ft/lbs)
10. Your installation of the manifold is now complete.
11. Finally, check the transmission fluid level and top off if needed with approved transmission fluid.
12. ****If you are installing the 5R110W JOB2 transmission pan and filter, then follow the additional instructions below reconnecting the battery ground cables in step 12.****
13. Reconnect the battery ground cables.

ADDITIONAL INSTRUCTIONS TO INSTALL NEW TRANSMISSION PAN & FILTER

1. Leave the vehicle's wheels chocked from the instructions as stated above.
2. Drain the transmission fluid into an approved drain pan that is large enough to hold at least 2-3 gallons of fluid.
3. Remove the transmission pan. It is easier if you place a floor jack under the pan to help hold the pan in place so it does not fall when you remove the last bolt, but this is not necessary. Remove the gasket and inspect. A new Ford OEM gasket is included for peace of mind.
4. Remove the transmission filter, and be sure the sealing ring on the old filter comes out with the filter. Sometimes the ring will get stuck up inside the transmission and you will need to remove it before installing the new 5R110W JOB2 filter (8C3Z7A098D).
5. Lubricate the rubber seal first, then install the new filter, and be sure the filter is seated up inside the case of the transmission.
6. Install the new 5R110W JOB2 transmission pan (8C3Z7A194B) and gasket (F6TZ7A191A) with the new provided bolts to 11ft/lbs.
7. Reconnect the battery ground cables.
8. Refill the transmission pan per vehicle owner's manual procedure with approved transmission fluid, and check fluid level before driving.
9. Start the vehicle and inspect for any possibly leaks, and recheck transmission fluid level.
10. Installation is now complete.

We appreciate your business!

If you have any additional questions, please feel free to contact us at 419-636-0000 and select option #2 to reach a technical support team member.



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