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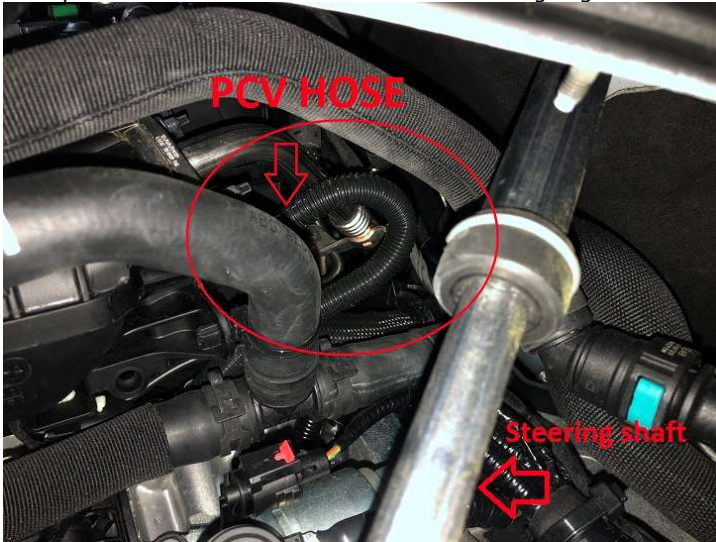
J&L Oil Separator (2019-Early 2021 Ford Ranger 2.3 Ecoboost Driver Side) #3037D Installation Instructions

To view install video: go to our website, www.JLosc.com and type 3037D in search box. Click on product, scroll down and click on videos.

Please review complete instructions prior to installing.

Step #	
1	Verify you have all of the following parts in the kit: (1) J&L Oil Separator, (1) J&L Mounting bracket, (2) Fine thread machine screws, (1) M6x1.0 bolt, (1) PCV Hose with Male connector, (1) PCV Hose with Female 90 connector
2	Gather all of the following tools needed for the installation: Phillips screwdriver, 10mm socket, extension and ratchet, Light oil, Jack, Jack stands and 19mm socket/Torque wrench.
3	<p>Remove driver side front wheel, support vehicle with Jack stands! Never rely only on the jack.</p> <p>Remove rubber access flap (Gives access to oil filter), it is secured with numerous screw style plastic clips.</p> 

4 Next you will need to locate the PCV hose that is going to the intake manifold. It's an accordion style hose.



You will need to remove the connection to the intake manifold. Slide the locking tab with your finger and pull fitting away from manifold. Pull hose downward to gain access to the connection.

5 In the engine bay route both J&L hoses down towards the PCV connections. This part is easier to do with two people, one at the top of the engine bay.

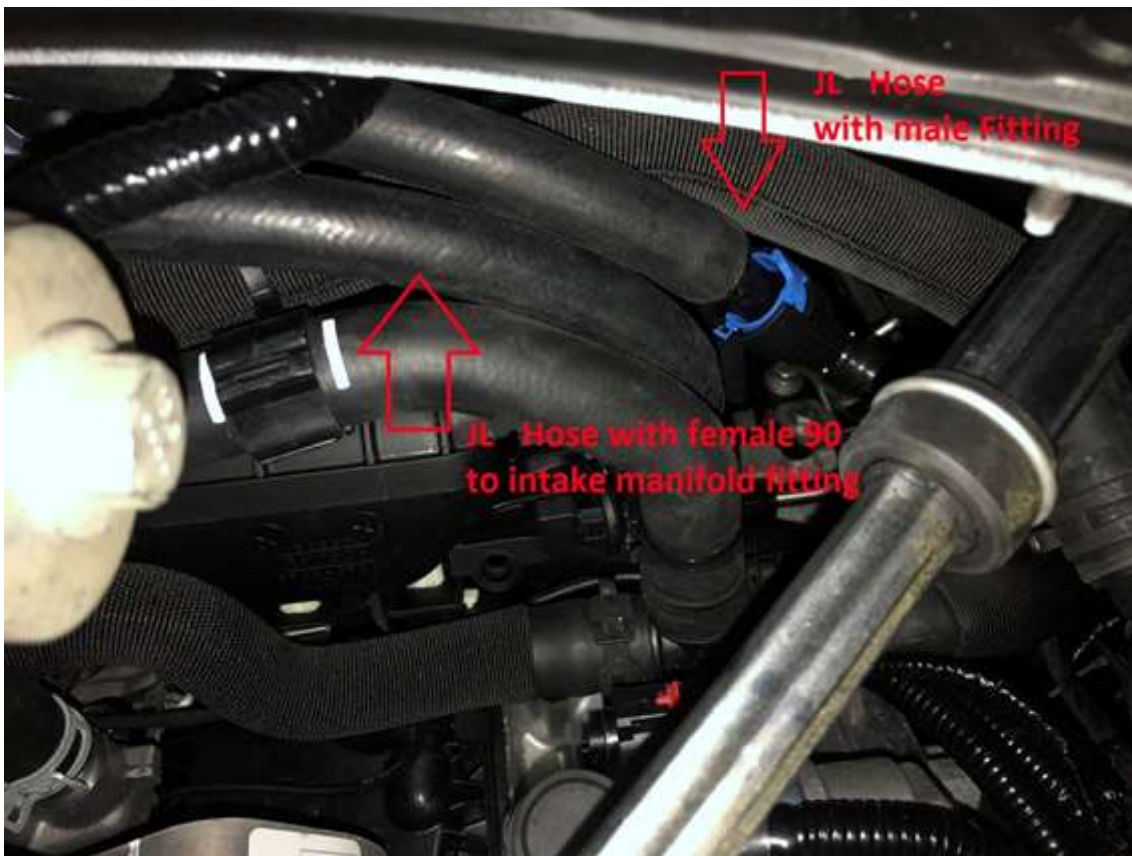
Tip: Label hoses at the top so you can easily remember which is which for connecting to the catch can later. You can do this with tape.





- 6** Back under the vehicle, connect J&L 90° fitting to intake manifold. Once the fitting is fully seated you will press in the large tab to lock fitting in. You will hear an audible "CLICK" when it engages. Pull on connector to make sure it doesn't come back off. You cannot see these fittings well, so this is all done by feel.

Next connect the J&L hose with the male fitting to the factory PCV line you removed earlier, this connection will also click when installed.



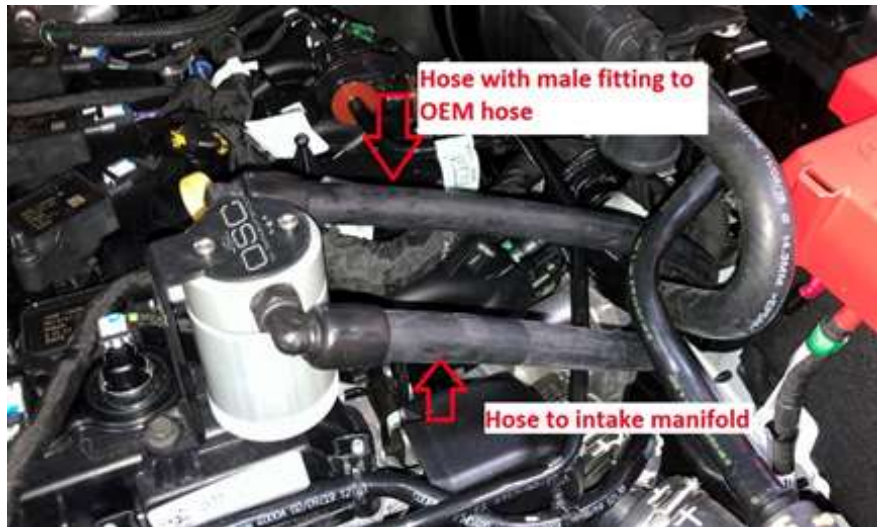
Ensure the hoses are not interfering with the steering shaft, they should be far away from this area. Use zip ties if needed to tie up hoses for extra security.

7 Mount J&L oil separator to mounting bracket. The J&L logos will line up. Install Can onto front of valve cover with supplied bolt into pre-existing threaded hole.

If you have the factory engine cover, use the OEM nut to secure the bracket as shown below.

The can has a filter installed on the "C" side; this is the dirty side of the can. This needs to connect to the hose that had the MALE fitting. Using light oil, lubricate the inside of the hose and fitting. Install dress up end on hose and push onto the fitting on the "C" side of the can.

Do the same with the other hose to the "O" side of the can. See picture below for recommended routing.



WITH ENGINE COVER INSTALL POSITION



8 Check all connections. Reinstall rubber flap and wheel. Torque wheel to 100 ft/lbs in a star pattern. Recheck/Retorque wheel after 50 miles of driving.

We highly encourage you watch the install video of this product as it shows much more detail of this install!!

To properly clean the filter in the Oil Separator, spray any degreaser or solvent through it and let it air dry. Clean it every 10,000 miles. Thank you for your business. If you have any questions, please e-mail info@JLosc.com or call 757-842-6497. Our hours are Monday-Friday. 8:00am – 4:30pm Eastern Time.

J&L Oil Separator co. Lifetime Satisfaction Guarantee. We want you to be a J&L customer for life! Your new J&L product is warranted to be free from defects in materials and workmanship for the life of the *original retail purchaser*, subject to the limitations contained in our warranty found here. www.JLosc.com/warranty

We guarantee workmanship and even a pathway to discounted upgrades for substantially improved items.

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