



JAMES BARONE RACING
AFTERMARKET PARTS AND ACCESSORIES

2013-2018 Ford Focus *ST*
PCV Oil Catch Can Installation Instructions

Tooling:

- ✓ Jack , Jack Stands or ramps
- ✓ Ratchet
- ✓ Short extension
- ✓ 8mm, 10mm, 14mm 17mm Sockets
- ✓ 10mm & 11mm wrenches
- ✓ Medium crescent wrench
- ✓ 5mm allen wrench
- ✓ #30 torx bit
- ✓ Flat head screw driver
- ✓ Teflon tape

Parts List:

- ✓ 1 fully assembled oil catch can
- ✓ 2, 3/8" hoses with OEM quick connectors attached
- ✓ 2 small stainless steel hose clamps
- ✓ 10" of 3/8 drain hose with NPT fitting
- ✓ 1 quick drain valve
- ✓ 4 Zip ties

- ❖ Begin by parking on a smooth level surface with the emergency brake engaged. Jack up the front of the vehicle and position jack stands underneath both sides.



Refer to your vehicle's owner's manual for proper jack placement and supporting procedures.

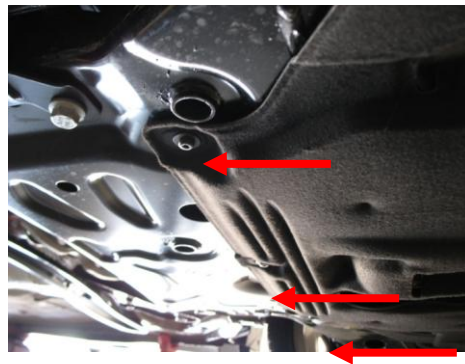
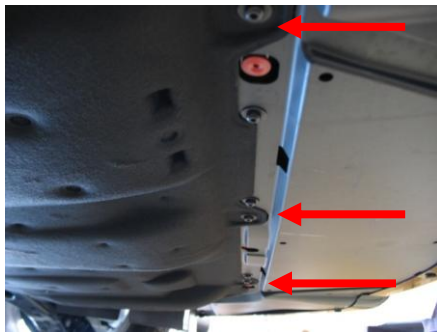
Never get under a vehicle without the proper support in place.

If you chose the upper mounting location skip to step 3.

1. Remove the front lip portion of the belly pan using the T-30 torx bit.



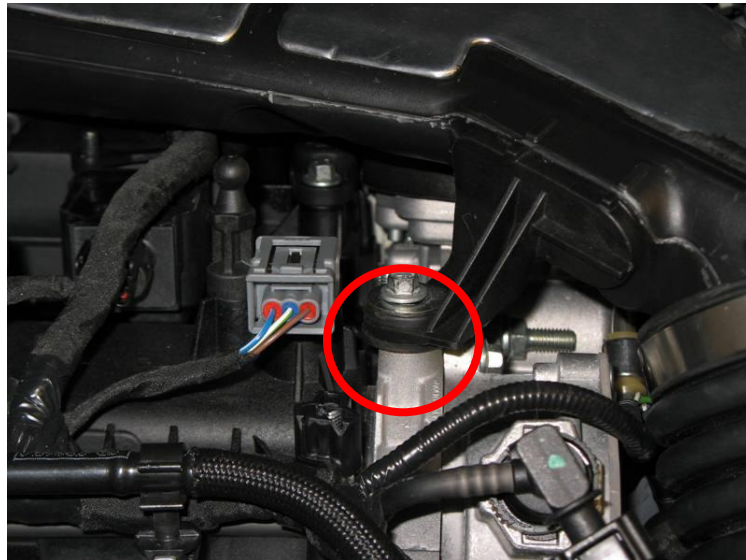
2. Remove the remainder of the belly pan.



3. From the top side, remove the engine cover by pulling straight up on all four corners.



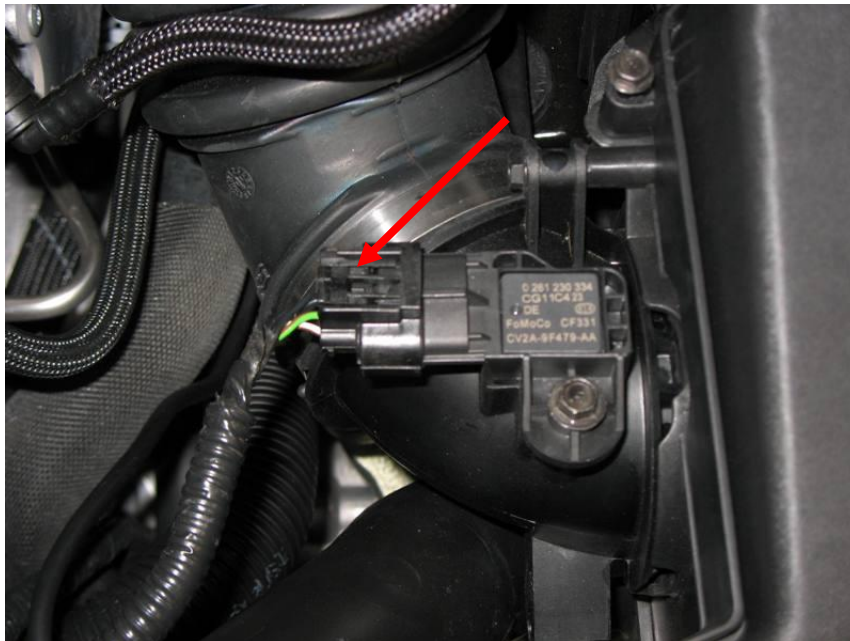
4. With an 8mm socket, remove the bolt securing the turbo inlet pipe to the vacuum pump.



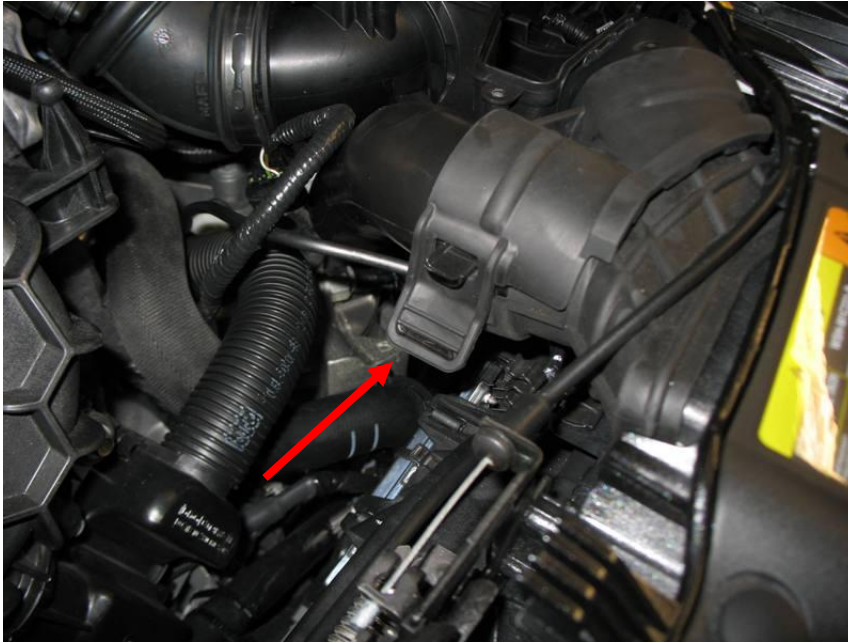
5. With an 8mm socket, loosen the clamp securing the intake hose to the turbo inlet pipe.



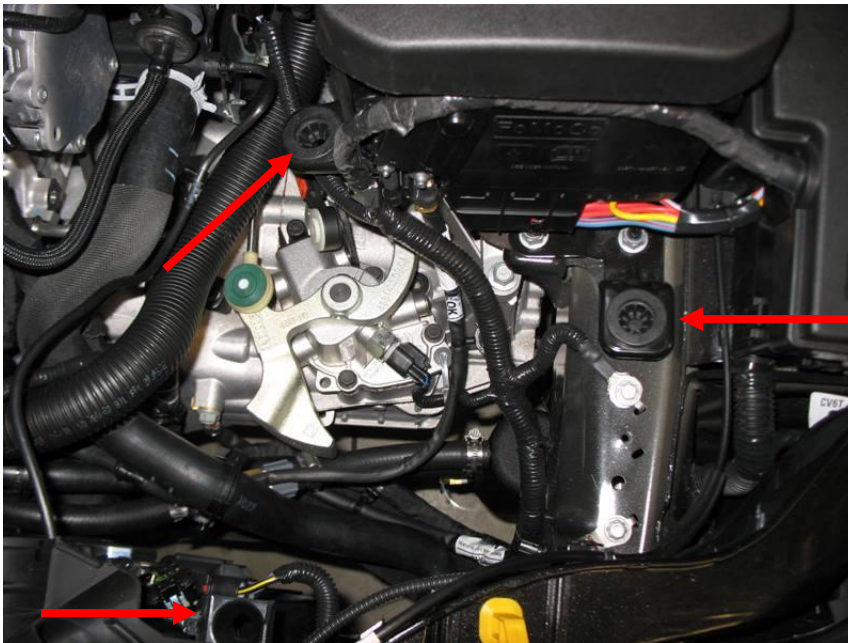
6. Disconnect the MAP sensor connector by squeezing the tab while pulling towards the passenger side.



7. Unclip the strap that holds the cold air inlets in place.



8. Now that everything is disconnected it's time to remove the entire air box assembly. There are 3 pegs that secure the air box to the vehicle. Below is the location of each of the grommets that the pegs fit in shown after the air box has been removed. Locate the pegs and pull the air box straight up in each area to pop the pegs out of their grommets and remove the entire assembly carefully.



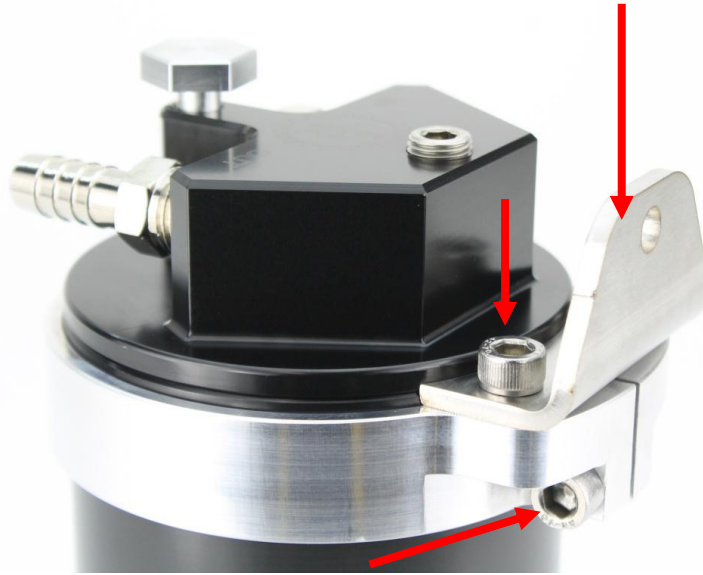
9. Apply Teflon tape to the threads of the drain valve. Attach the drain valve to the bottom of the catch can and tighten with a crescent wrench. Install the drain hose fitting into the bottom of the drain valve. This can be tightened by hand and does not need to be too tight.



10. Apply Teflon tape to the threads of the barbed fittings. Install the barbed fittings into the IN and OUT ports of the catch can using a 14mm deep socket.



11. If you need to adjust the height of the mounting bracket or the location of the mounting bracket, ALL 3 socket cap bolts must be loosened using a 5mm allen wrench. (No need to adjust for this installation)



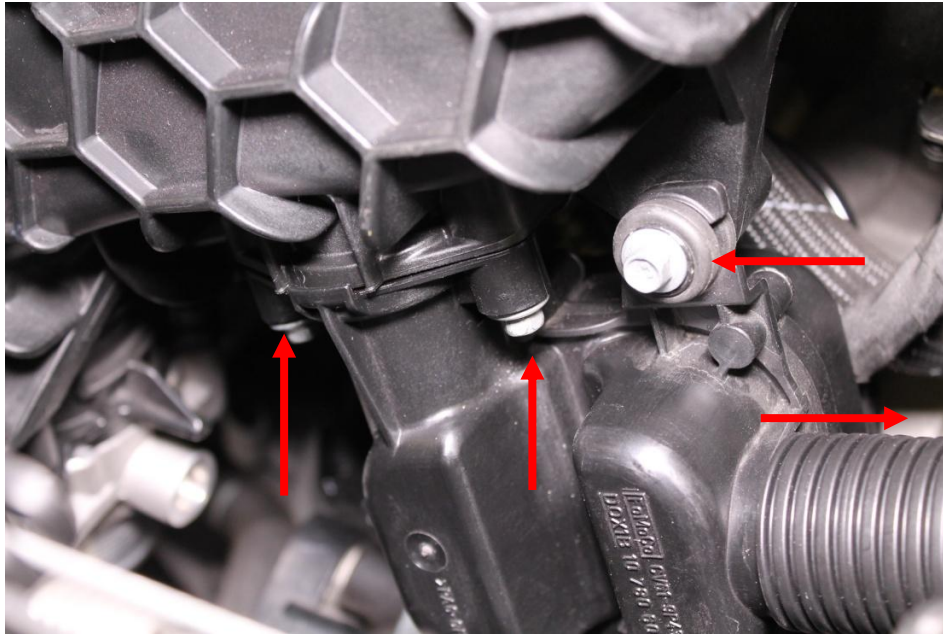
Lower mounting location

12. The catch can is to be mounted in the area just in front of the driver's side wheel well behind the front bumper. Using an 8mm socket, remove the bolt that secures the leg of the ECU to the frame.



ECU

- Slide the mounting bracket already installed on the catch can in between the leg of the ECU and the frame with the inlet and outlet ports facing the passenger side of the vehicle. Reinstall the bolt removed in step 12 and tighten.
- Using an 8mm socket remove the 3 bolts securing the sound symposer to the intake manifold and pull the hose off the symposer. (This is to be left off if using the upper mounting location)



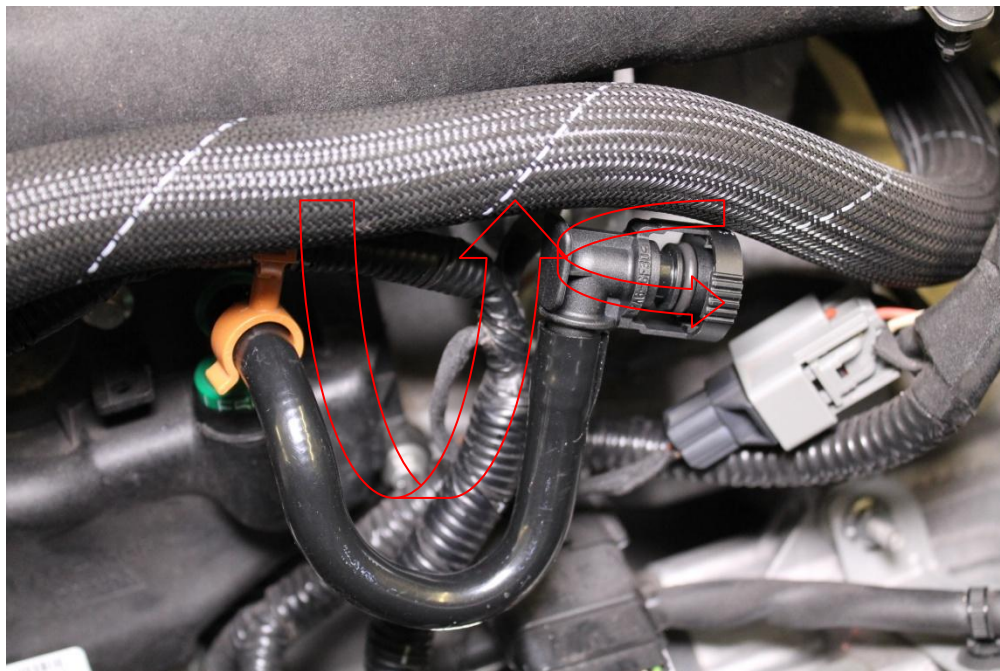
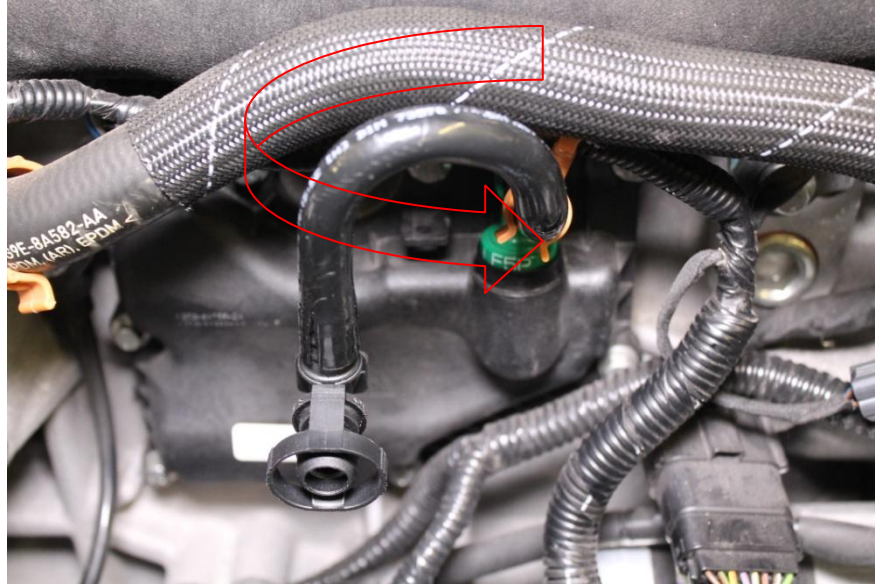
- With the sound symposer out of the way we need to remove the PCV hose connection at the manifold. This can easily be done with both hands by reaching in behind the manifold from the driver's side. Use your right hand to squeeze both sides of the connector together. Use your pointer finger on your left hand to push it off towards the rear of the car. The next 3 pictures illustrate how to grab the connector and position yourself to get it off. It may take a few tries; be patient here.



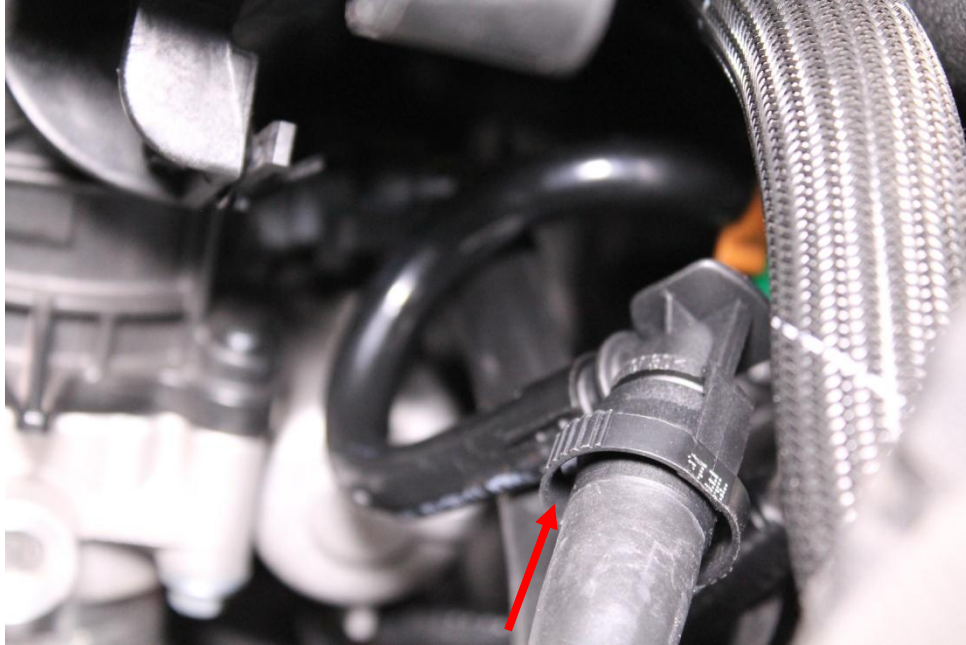


Copyright © 2019 James Barone Racing LLC. Any unauthorized reproduction or publication of this document is a violation of U.S. copy write Law. Violators will be prosecuted to the fullest extent of the law.

16. Next, swivel the PCV valve hose up and rotate the quick connector so it's facing down and towards the driver's side.



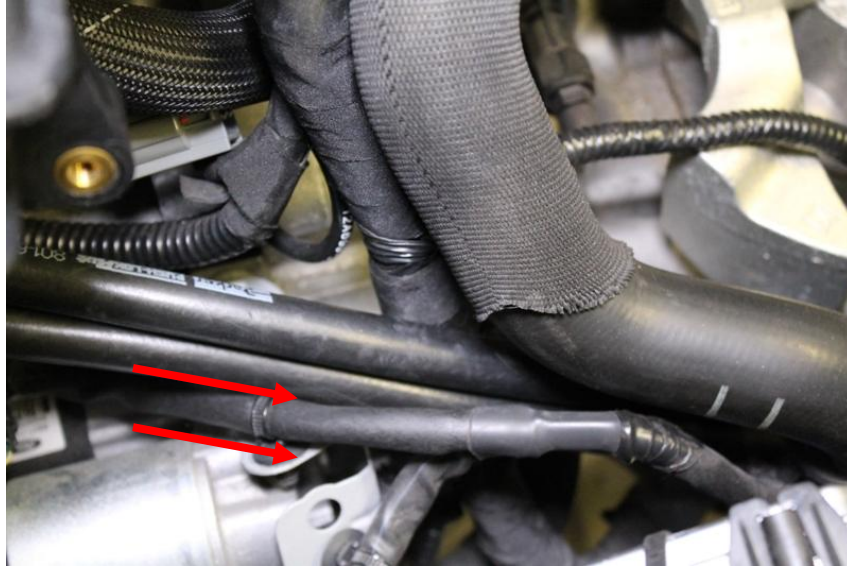
17. Connect the hose with the straight male connector provided with your kit in to the fitting you removed from the manifold in the previous step.



18. Connect the hose with the 90° fitting on to the port on the manifold.



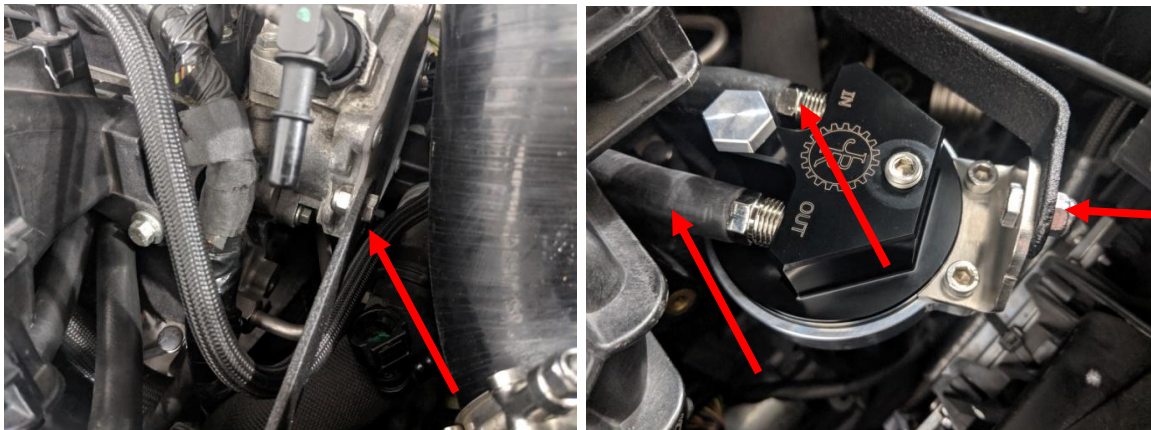
19. The hoses can now be routed below the radiator hose and down towards the driver's side frame rail where the catch can is mounted. Secure the hoses to each other and to the radiator hose with the zip ties provided.



20. Connect the hose attached to the back of the intake manifold to the OUT port on the catch can. Secure it using one of the hose clamps provided with your kit and a flat head screw driver. Connect the hose from the PCV valve to the IN port on the catch can.

Upper mounting location

21. Use the hardware included with the upper mounting bracket to secure the straight end of the bracket to the vacuum pump and the angled end to the bracket mounted on the catch can. (These need to be tight)
22. Connect the hose attached to the back of the intake manifold to OUT port on the catch can. Secure it using one of the hose clamps provided with your kit and a flat head screw driver. Connect the hose from the PCV valve to the IN port on the catch can.



23. Re-install sound symposer if using the lowering mounting location.

Copyright © 2019 James Barone Racing LLC. Any unauthorized reproduction or publication of this document is a violation of U.S. copy write Law. Violators will be prosecuted to the fullest extent of the law.

**Congratulations!! You've now completed the installation of
you New JBR Oil Catch Can Kit!!**