

2018-2023 Mustang EcoBoost Cold Air Intake

P/N: 422087 (131823-9600)

Application: 2018-2023 Ford Mustang 2.3L Manual or Automatic Transmission

EO:D-418-43

Installation Instructions



Before installing your ROUSH Performance Product(s), read through the entire installation procedure and check to make sure all items are present. Contact ROUSH Customer Service at 1-800-59-ROUSH, weekdays from 9:00 AM to 5:00 PM EST, with any questions regarding fit, missing parts or instructions that are unclear to you.



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Description	Part Number	Qty
Air box	131550-9A612	1
Filter Tube	131523-12B579	1
Dirty Air Duct	1315-9F763	1
Clean Air Tube	131523-9B659	1
Filter w/ Clamp	131550-9601R	1
Upper Airbox Cover	1318-9643	1
Hardware Kit	131823-CAKHWK	1
Clamp	5340	1
Clamp	5348	1
Silicone Coupler CAT to Turbo 3" to 2.25"	131523-SILCP	1
Screw Self Tapping M6 X 25 mm	W506976-S437	6
Push Nut- ROUND NO. 6 (Hydrocarbon Trap Retention)	94800A705	4
Bolt MAF Tube to Air Box (M8 X 1.25 X 25)	W500224-S437	2
ROUSH Sticker	131550-9600STK	1
ROUSH Installation Insert	1315-P1INST	1
EO Label	D41843-9A095EO	1

EQUIPMENT AND SUPPLIES REQUIRED

- 10mm Socket
- Flat Screwdriver
- Pliers
- Trim Tool
- Torx bit socket

LIMIT OF LIABILITY STATEMENT

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. ROUSH Performance Products (RPP) reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

SAFETY REQUIREMENTS

STOP! READ IMPORTANT SAFETY CAUTIONS AND WARNINGS BEFORE PROCEEDING.

IMPORTANT SAFETY NOTICE

Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation manual carefully before starting the actual installation.

1. Always wear safety glasses for eye protection.
2. Place ignition switch in the OFF position.
3. Always apply the parking brake when working on a vehicle.
4. Chock the front and rear tires to prevent unexpected vehicle movement.
5. If working without a lift, always consult vehicle manual for correct lifting specifications.
6. Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
7. Do not smoke or use flammable items near or around the fuel system.
8. Use chemicals and cleaners in well-ventilated areas.
9. Batteries produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or flammable substances to come near the battery.
10. Keeps hands and any other objects away from the radiator fan blades.
11. Keep yourself and your clothing away from moving parts when the engine is running.
12. Do not wear loose clothing or jewelry that can get caught in rotating parts or scratch surface finishes.
13. Allow the engine, cooling system, brakes and exhaust to cool before working on a vehicle.

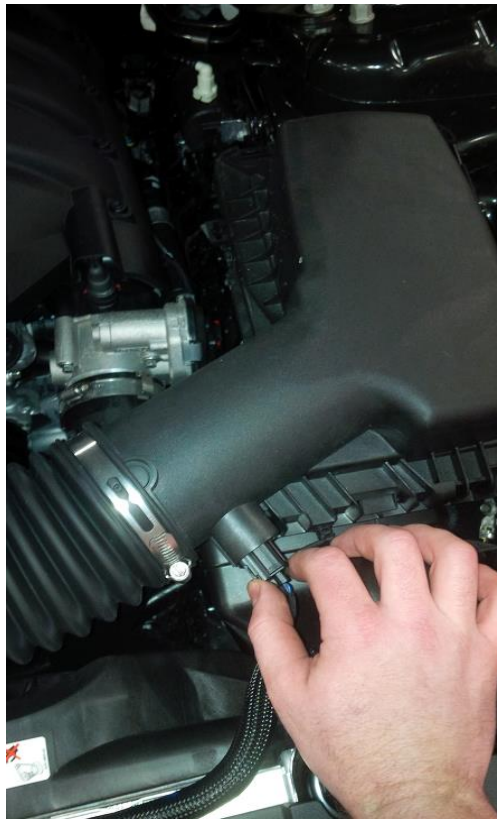
WORK SAFELY!

Perform this installation on a good clean level surface for maximum safety and with the engine turned off.

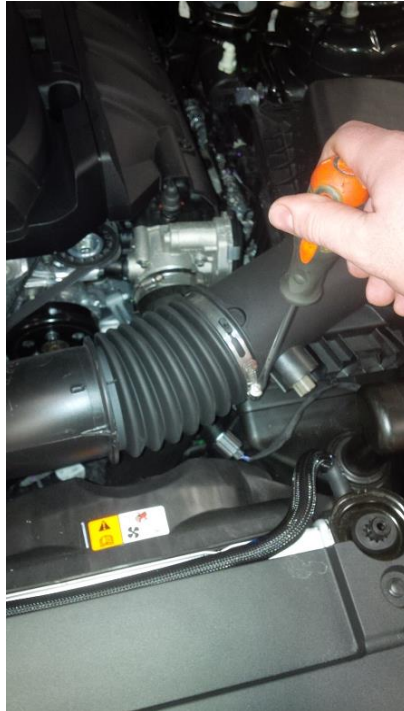
SECTION A – REMOVAL

The following section will guide you through the disassembly of the stock components. Special care should be taken to label fasteners and parts that are taken off during this procedure since many will be reused:

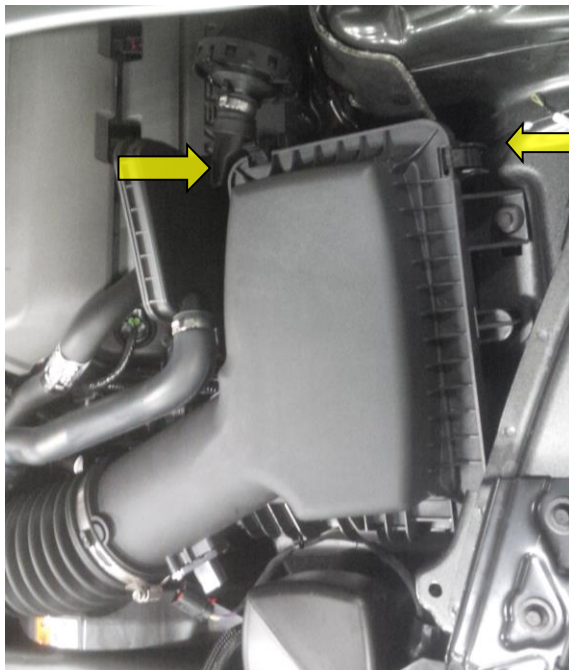
1. Cover both fenders with fender covers to protect the vehicle finish.
2. Disconnect the battery ground cable.
3. Disconnect the Air Temp Sensor connector as shown.



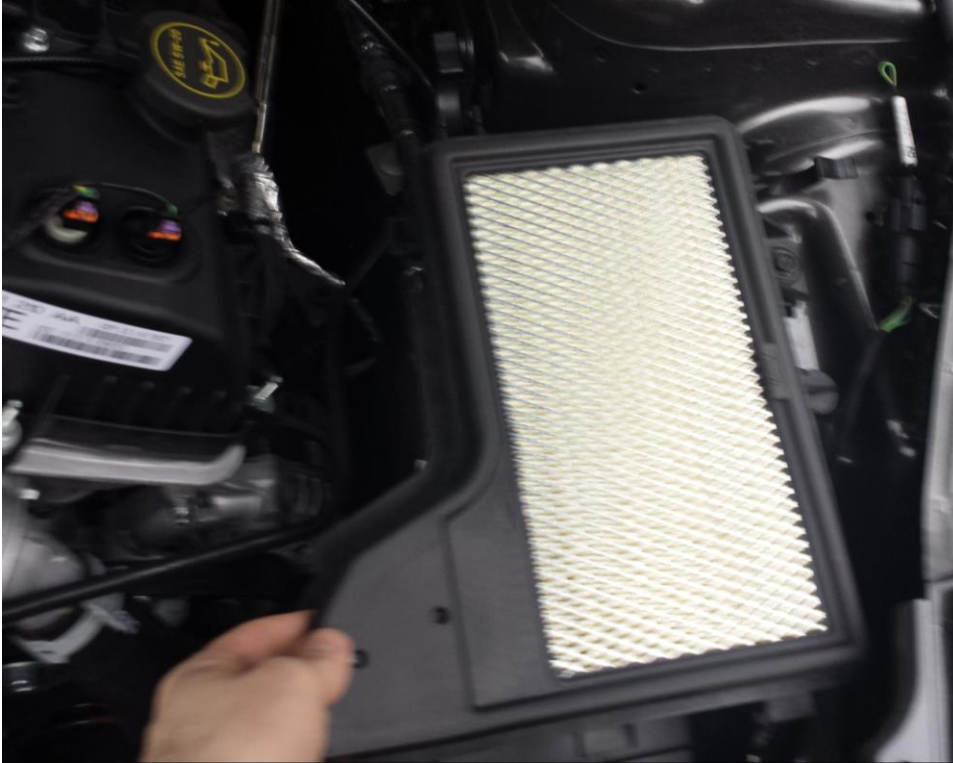
4. Loosen the clamp at the air box from the intake tube.



5. Release the two latches holding the air box lid to the lower box.



6. Remove the lid and filter.



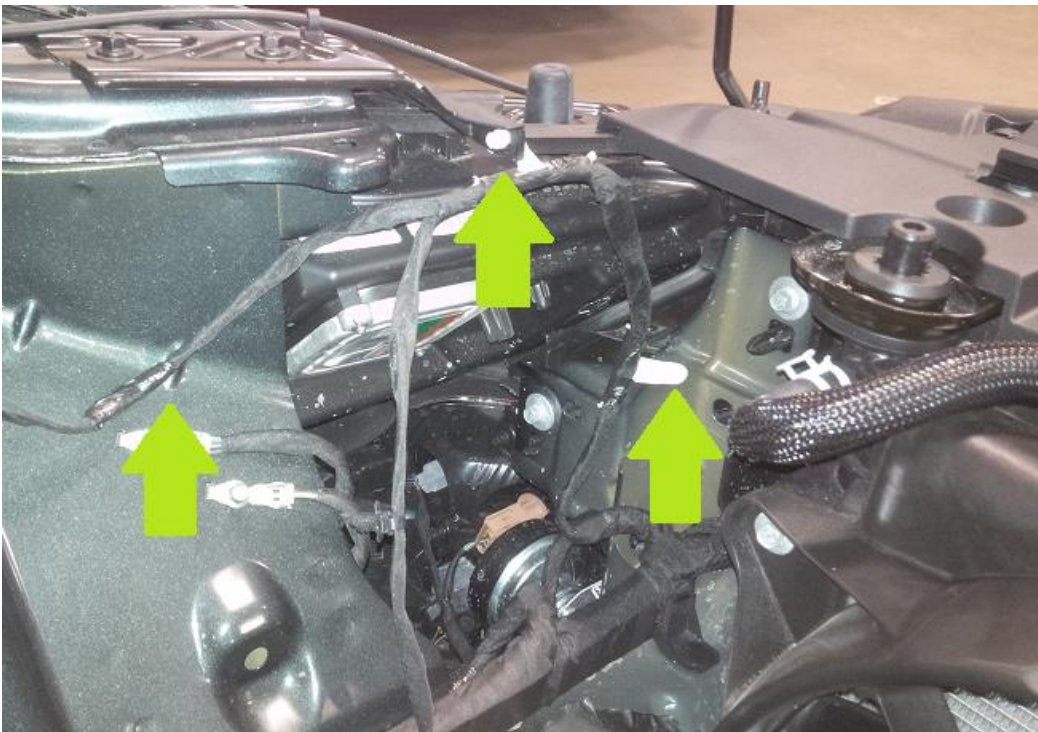
7. Remove the bolt holding the air box to the inner fender using the 10mm socket.



8. Remove the air box tray and dirty air inlet from the car.



9. Remove the 3 clips shown on the inner fender to give the slack needed in wiring harness.



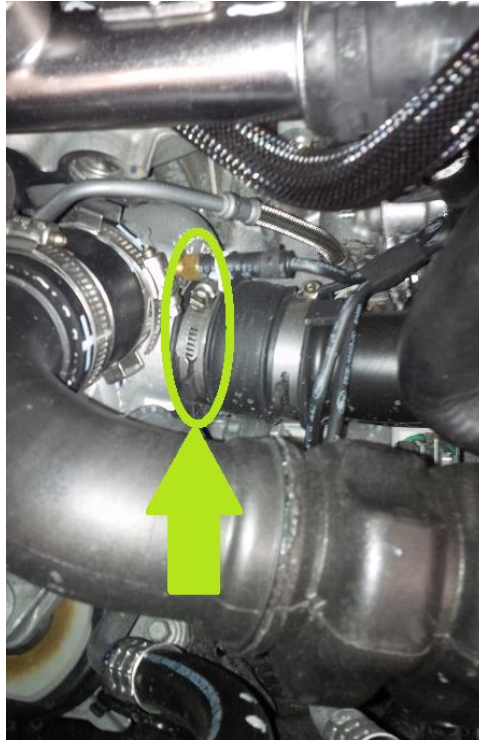
10. Remove the clamp holding the air bypass valve hose.



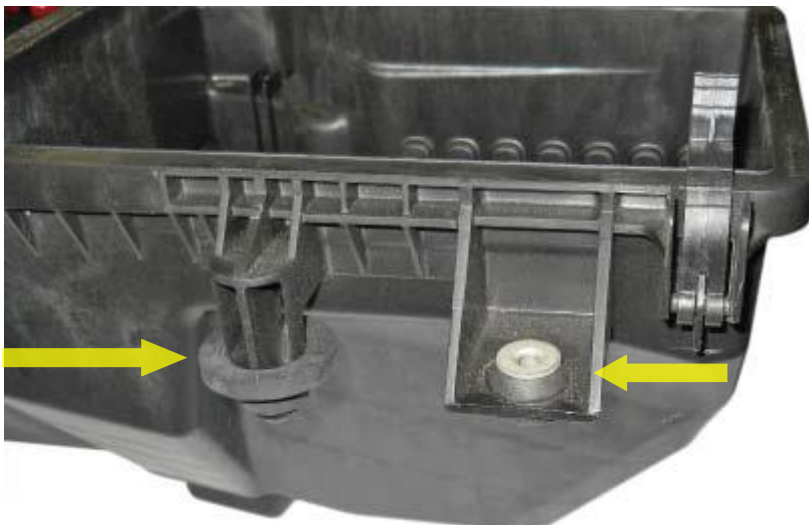
11. Remove the PCV quick connect fitting from the stock clean air tube.



12. Remove the clamp on the turbo inlet end of the clean air tube. Once the clamp is off you can remove the clean air tube and air box from the car.



13. Remove the steel bushing and two rubber grommets from the stock air box. Retain for later use.



14. Remove the rubber isolator from the bottom of the stock air box tray and retain for later use.



SECTION B – INSTALLATION

1. Install the rubber grommet you just removed into the Roush air box (Part Number 131550-9A612), then insert the steel bushing.



2. Install the second grommet onto the air box (131550-9A612).



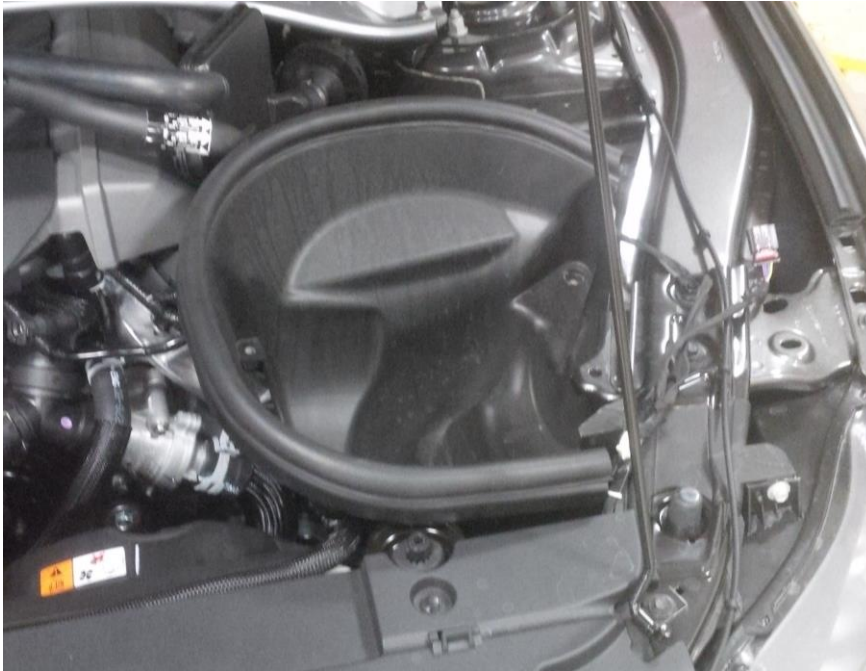
3. Install the rubber isolator into the bottom of the air box (131550-9A612)



4. Insert the dirty air inlet (1315-9F763-A) into the air box (131550-9A612).



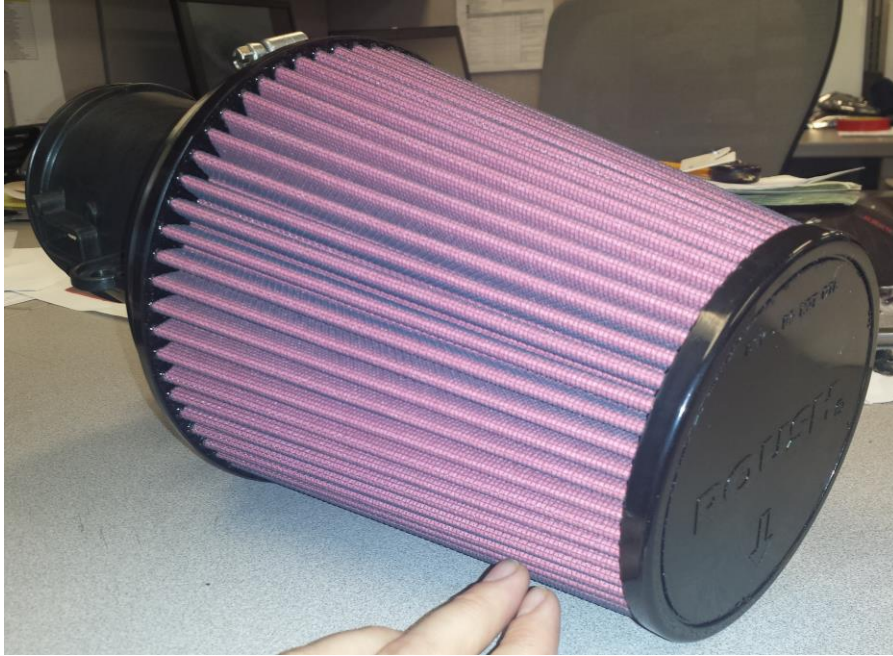
5. Insert the air box assembly into the car.



6. Using a 10mm socket and the bolt removed from the stock air box, attach the air box to the car. Torque to 8 Nm.

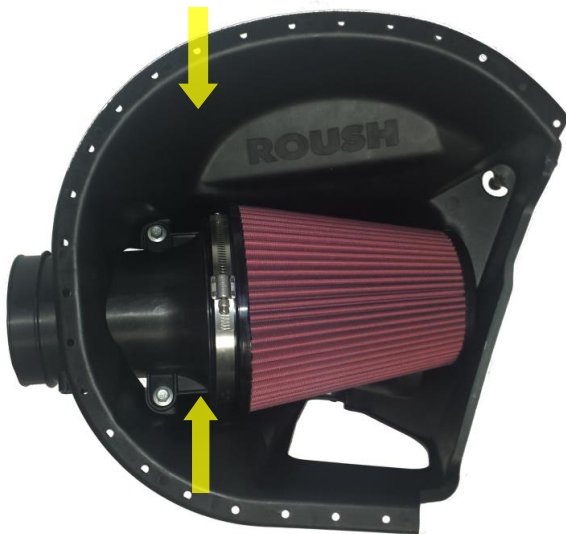


7. Loosely attach the air filter (131550-9601R) to the filter tube, leave the clamp loose so you can hide it once installed on the car. Make sure the arrow on the filter is 90 degrees to the MAF sensor boss as shown.

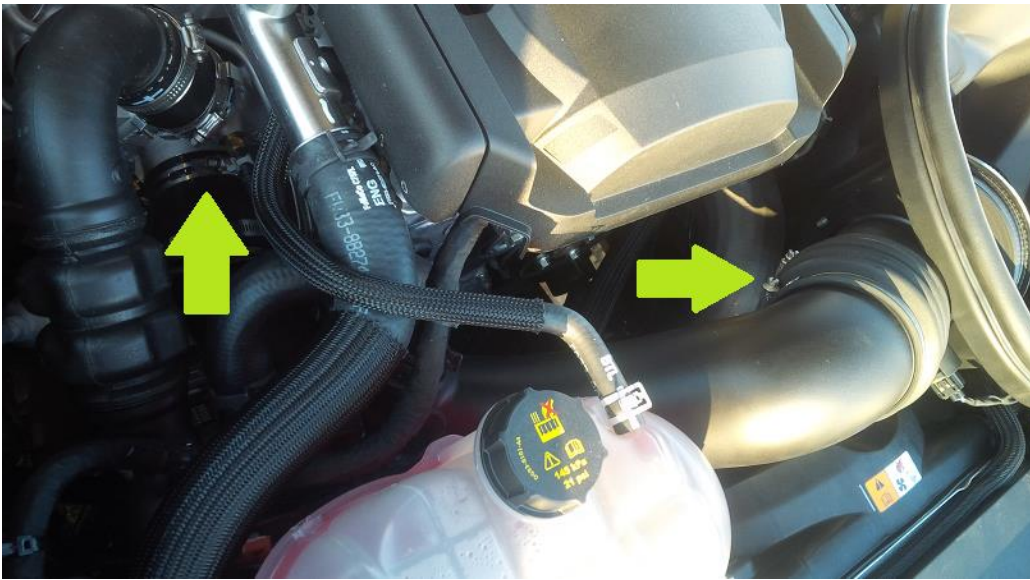


8. Slide the filter tube assembly into the air box (Part Number 131550-9A612), making sure the sensor boss is pointed toward the front of the car. Install the 2 bolts (W500224) that are supplied with the 10mm socket. Torque to 10 Nm. Rotate the air filter clamp to a suitable location and torque to 3 Nm

NOTE: Hand start bolts and make sure both bolts are started in the airbox before torquing them down.



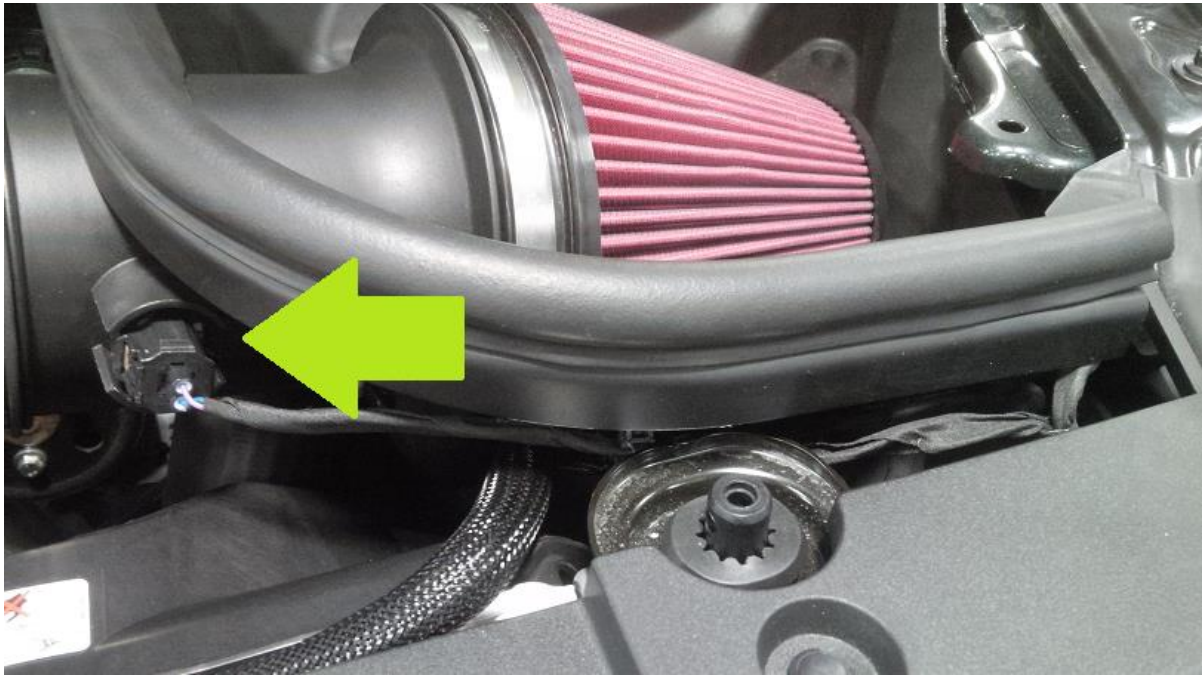
13. Install the clean air tube coupler onto the turbo inlet (Part Number 131523-SILCP-AA) and tighten clamp (Part Number 5340). Use clamp (Part Number 5348) to fasten the clean air tube to the coupler. Lastly tighten the clamp from the clean air tube to the air filter tube (Part Number R07130028-13-AA). Tighten clamps to 3 Nm.



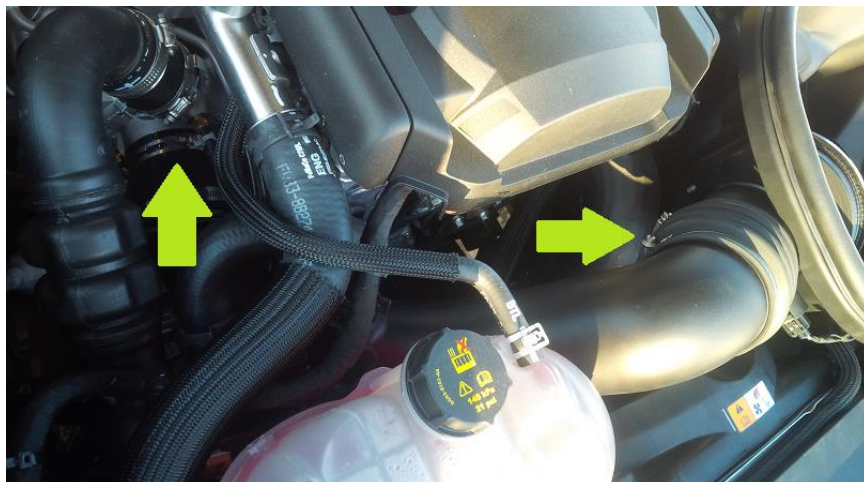
9. Remove the Air Temp sensor from the factory air box by twisting counter clockwise and re-install into the Roush filter tube (Part Number 131523-12B579) by twisting clockwise.



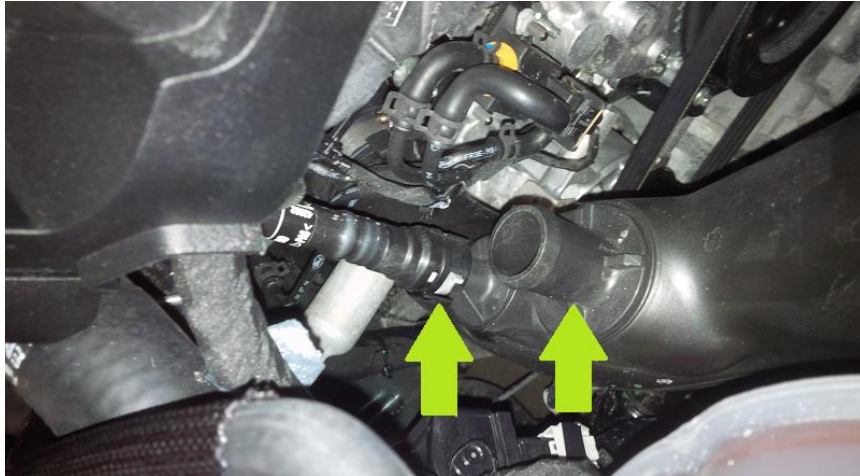
14. Connect the temperature sensor connector.



15. Install the clean air tube coupler onto the turbo inlet (Part Number 131523-SILCP-AA) and tighten clamp (Part Number 5340). Use clamp (Part Number 5348) to fasten the clean air tube to the coupler. Lastly tighten the clamp from the clean air tube to the air filter tube (Part Number R07130028-13-AA).



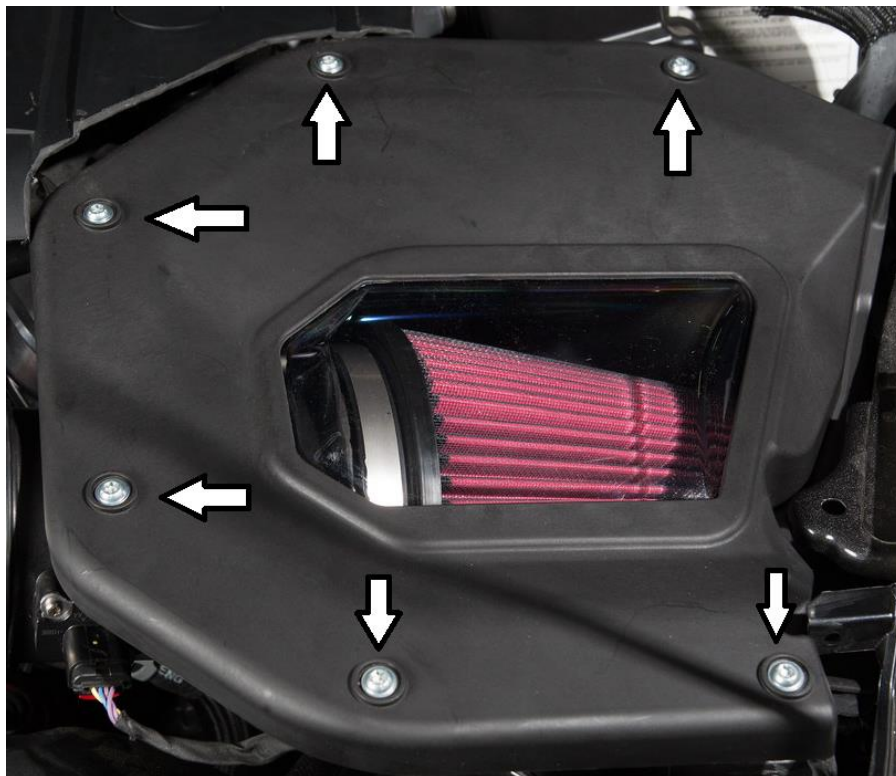
16. Install the PCV tube with the quick connect (make sure it's fully seated), followed by the recirculation valve hose with the constant tension clamp.



17. Install the air box upper cover (1318-9643) onto the top of the air box. Use the 6 self-tapping screws (W506976-S437) to secure the lid in place.

***Note* IF THE ROUSH AIRBOX LID DOES NOT HAVE A HYDROCARBON TRAP ON THE UNDERSIDE OF THE LID, REFER TO APPENDIX A AT THE END OF THIS DOCUMENT ON PAGE 19.**





18. Congratulations! The installation is now complete.

APPENDIX A – HYDROCARBON TRAP

1. Locate the stock airbox. Remove the Hydrocarbon Trap from the lid by either Drilling out / Cutting off the four corners of the plastic welds holding on the stock hydrocarbon trap. Note: Drill bit size 1/4" (Fraction) or 7 mm (Metric). BE CAREFUL TO NOT DRILL THRU THE HYDROCARBON TRAP.



2. Carefully remove the hydrocarbon Trap from the stock Ford airbox lid.



3. Transfer this hydrocarbon trap onto the Roush airbox lid as shown. Make sure the four corners of the hydrocarbon trap align with the Roush airbox lid pins, push the hydrocarbon trap onto the Roush airbox lid.



4. Using one Round Push Nut (94800A705) found in the Air Induction Hardware kit and place one onto each of the four pins with prongs facing upwards.



5. Using a 6mm socket to push and secure the hydrocarbon trap onto the Roush airbox lid as shown.



6. Repeat steps 4-5 for the other 3 pins.
7. Make sure the hydrocarbon trap is secured in place as shown, test it by hand, it should be secure onto the Roush airbox lid.

