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2018-2020 Mustang 2.3L ROUSH Performance Pac - Level 1

Installation Instructions
P/N: 422182 (131823-PERFPK1-AA)
EO D-418-38



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Application: 2018-2020 Ford Mustang 2.3L Manual or Automatic Transmission
Fits 2018-2020 Ford Mustang I4 2.3L EcoBoost, excluding the high output Mustang I4 2.3L EcoBoost

Important Note:

Before installing your ROUSH Performance Product(s), please read through the installation procedure and verify that 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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PACKING LIST FOR 422182 (131823-PERFPK1-AA)

Description	Part Number	Quantity
Air Box	131550-9A612	1
Filter Tube	131523-12B579	1
Dirty Air Duct	1315-9F763	1
Clean Air Tube	131523-9B659	1
Filter with Clamp	131550-9601R	1
Upper Air Box Cover Assembly	1318-9643HC	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
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

EQUIPMENT AND SUPPLIES REQUIRED

- 10 mm Socket
- Flat Screwdriver
- Pliers
- Trim Tool
- Torx Bit Socket

If you are missing any items, please call us toll free at 1-800-59-ROUSH.

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 PRECAUTIONS



CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS and WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION!

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 installation.

- Always wear safety glasses for eye protection.
- Place ignition switch in the OFF position.
- Always apply the parking brake when working on a vehicle.
- Block the front and rear tire surface to prevent unexpected vehicle movement.
- If working with a lift, always consult vehicle manual for correct lifting specifications.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around the fuel system.
- Use chemicals and cleaners in well-ventilated areas.
- Batteries produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or flammable substances to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can get caught in rotating parts or scratch surface finishes.
- 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.

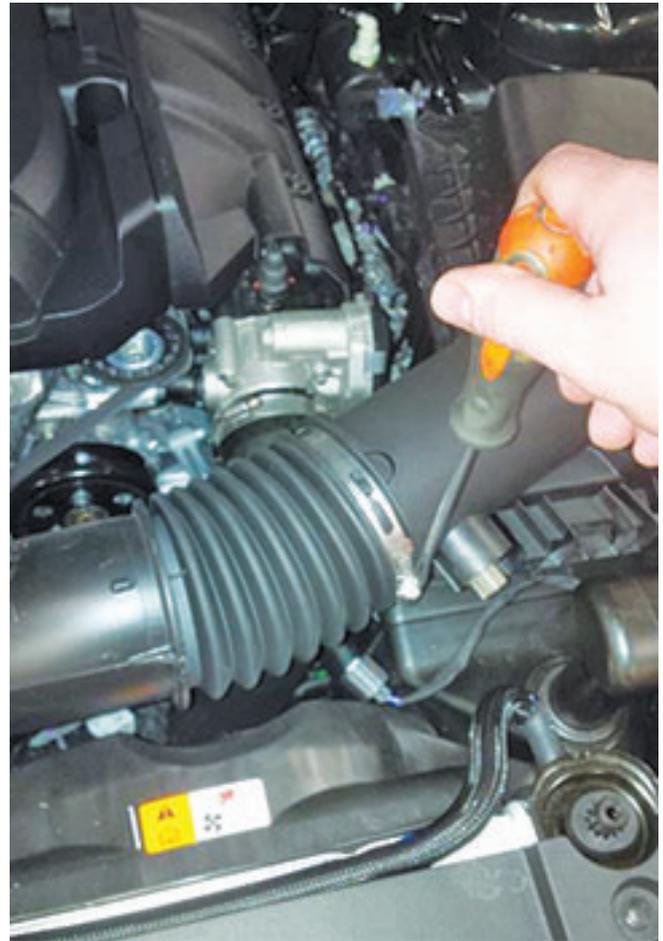
SECTION A – REMOVAL

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.

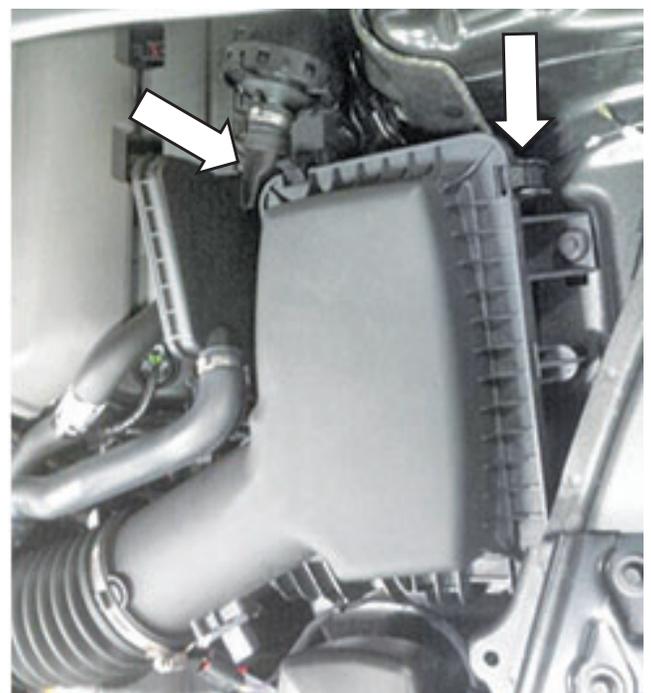
1. Cover both fenders with fender covers to protect the vehicle finish.
2. Disconnect the battery ground cable.
3. Disconnect the air temperature sensor connector as shown.



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



5. Release the two (2) latches holding the air box lid to the lower box.



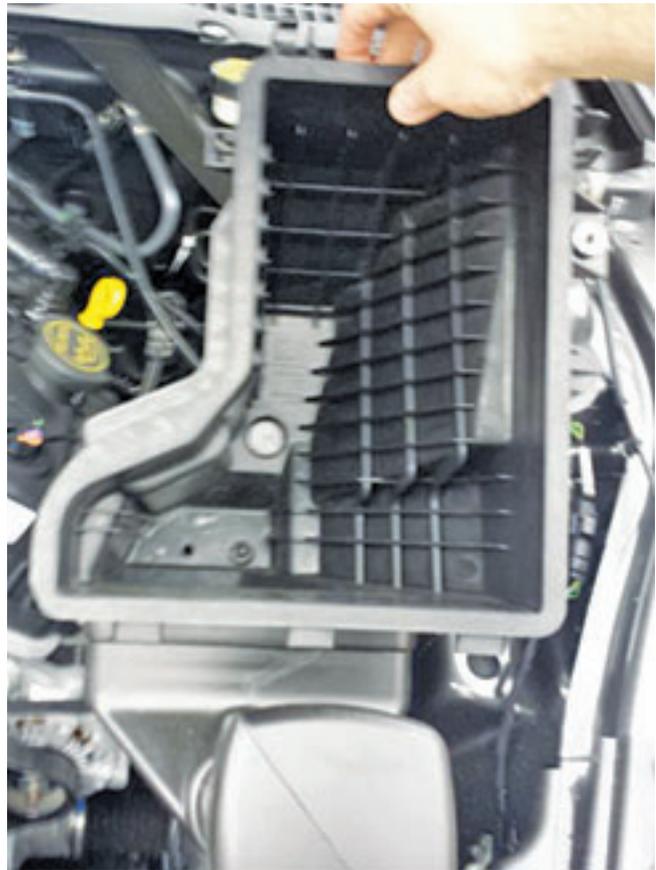
6. Remove the lid and filter.



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



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



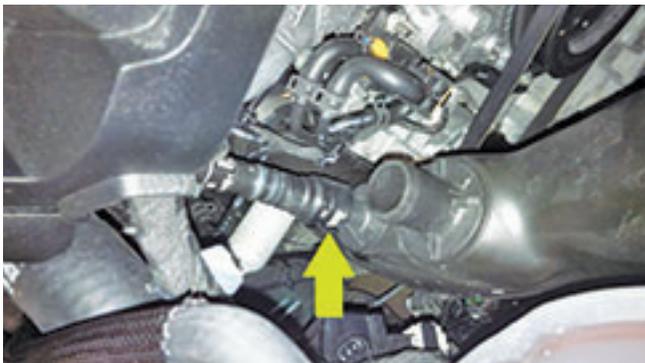
9. Remove the three (3) clips shown on the inner fender to provide the slack needed in the wiring harness.



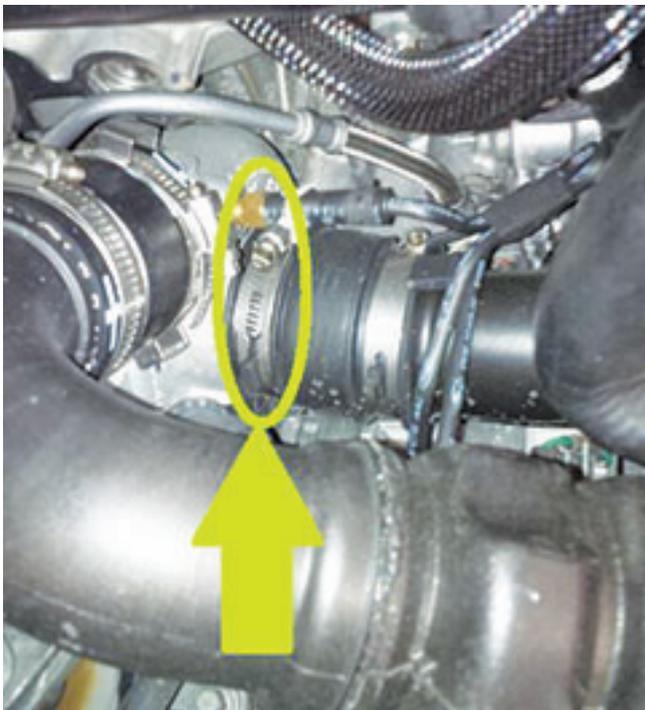
10. Remove the clamp holding the air bypass valve hose.



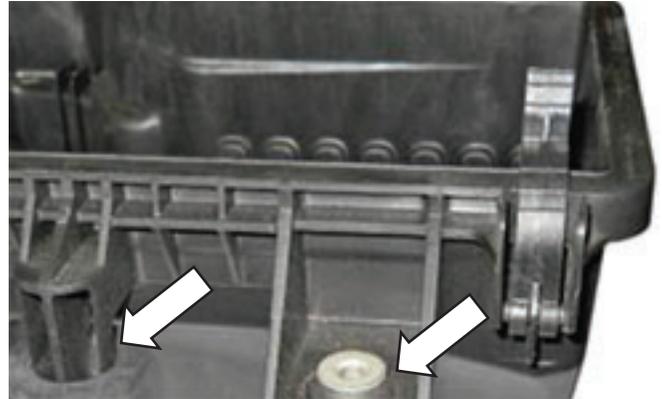
11. Remove the PCV quick connect fitting from the stock clean air tube.



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



13. Remove the steel bushing and two (2) 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 (131550-9A612), then insert the steel bushing.



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



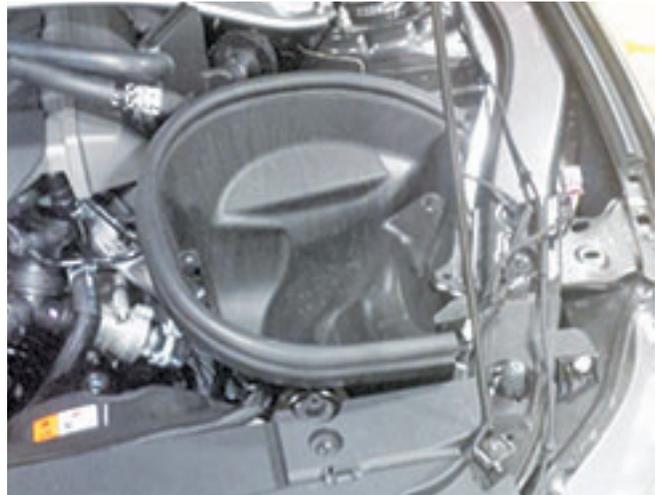
3. Install the rubber isolator into the bottom of the air box (131550-9A612).



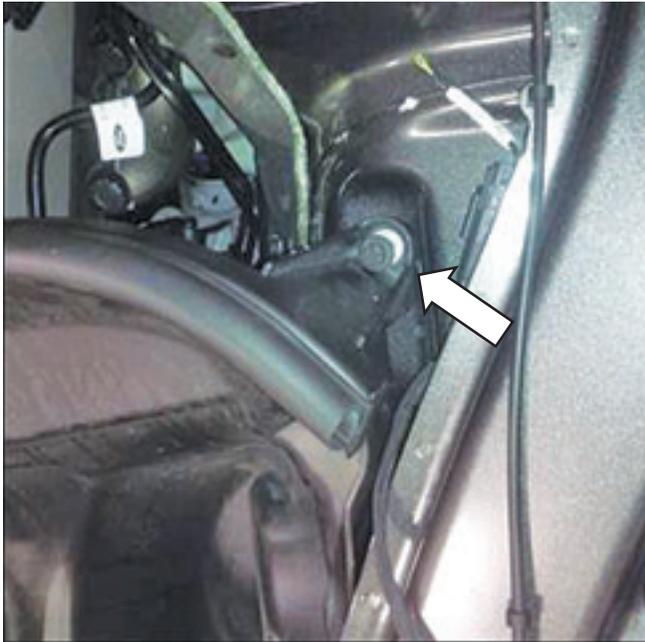
4. Insert the dirty air inlet (1315-9F763-A) into the air box (131550-9A612).



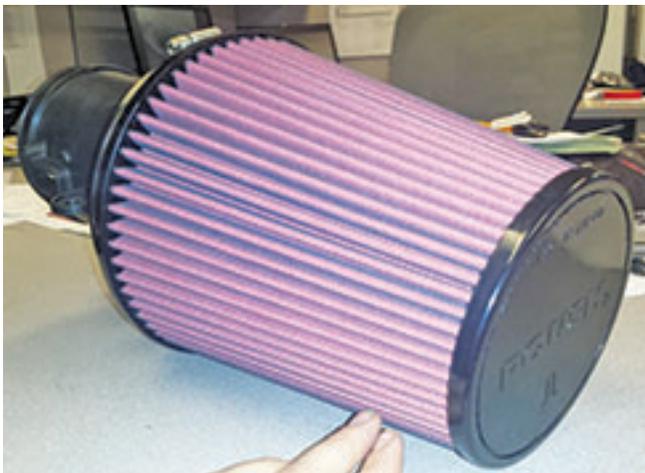
5. Insert the air box assembly into the vehicle.



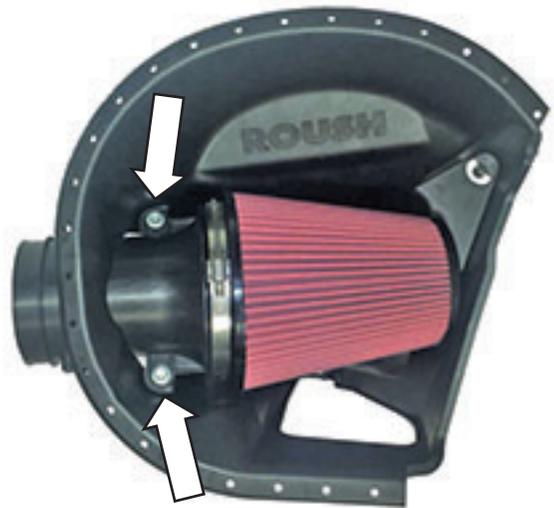
6. Using a 10 mm socket and the bolt removed from the stock air box, attach the air box to the vehicle. Torque to 8 Nm.



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 (131550-9A612), making sure the sensor boss is pointed toward the front of the vehicle. Using the 10 mm socket, install the two (2) bolts (W500224) that are supplied. Torque to 10 Nm. Rotate the air filter clamp to a suitable location and torque to 3 Nm.



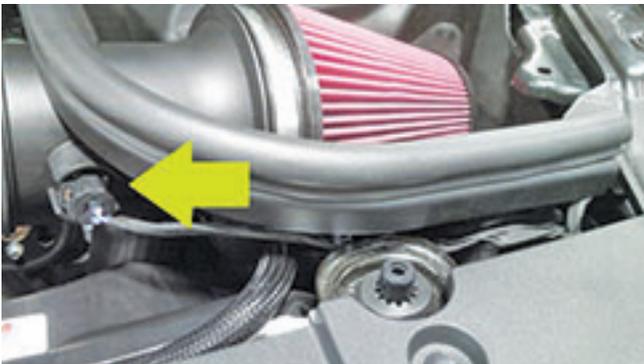
9. Install the clean air tube coupler onto the turbo inlet (131523-SILCP-AA) and tighten the clamp (5340). Use clamp (5348) to fasten the clean air tube to the coupler. Tighten the clamp from the clean air tube to the air filter tube (R07130028-13-AA). Tighten the clamps to 3 Nm.



10. Remove the air temperature sensor from the factory air box by twisting counterclockwise and reinstall into the ROUSH filter tube (131523-12B579) by twisting clockwise.



11. Connect the temperature sensor connector.



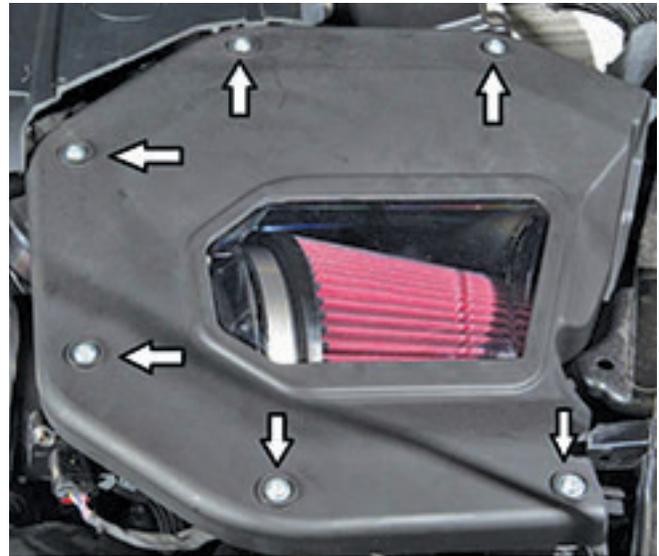
12. Install the clean air tube coupler onto the turbo inlet (131523-SILCP-AA) and tighten the clamp (5340). Use clamp (5348) to fasten the clean air tube to the coupler. Tighten the clamp from the clean air tube to the air filter tube (R07130028-13-AA).



13. Install the PCV tube with the quick connect, making sure it is fully seated. Install the recirculation valve hose with the constant tension clamp.



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



SECTION C – PCM FLASHING

Proceed with steps 1 and 2 if you have a SAE J2534 pass through device (e.g. Puma, VCM I, VCM II).

If you do not have a SAE J2534 device, visit your local ROUSH Dealer or Performance Shop with the appropriate tools for PCM Calibration.

1. If equipped with a SAE J2534 pass through device, refer to the RDT-CALIM manual found on our website: <http://rdt.roush.com>. The RDT-CALIM manual will guide you through the ROUSH Diagnostic Tool (RDT) software installation process and the ROUSH PCM flashing procedure detailed in RDT-CALIM.
2. Once the PCM has been successfully recalibrated, start the engine and check for unusual noises, dash service lights, and unusual operation. If problems are detected, immediately stop the engine or vehicle, diagnose and repair the problem.

Congratulations!!! You have completed the installation. It is recommended that you save all parts removed from the vehicle during the installation of this kit.