

# 2015 Mustang Ecoboost Cold Air Intake

## Installation Instructions

P/N: 421827 (131523-9A600)



**Application:** 2015 Ford Mustang 2.3L Manual or Automatic Transmission

**Important Note:**

Before installing the ROUSH Performance Product, please read through the installation procedure and verify that all items are present. If you are missing hardware or have any questions, please contact ROUSH Performance at 1-800-59-ROUSH, 9:00 AM to 5:00 PM EST.

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**PACKING LIST FOR MUSTANG ECOBOOST COLD AIR INTAKE**

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
Hardware Kit	131523-CAKHWK	1
Bolt (M8 x 1.25 x 25)	W500224	2
Silicone Coupler Clean Air Tube-to-Turbo Inlet	131523-SILCP	1
Silicone Coupler Clean Air Tube-to-Air Filter Tube	131550-9B659	1
Clamp – Coupler-to-Turbo Inlet (72 mm)	5340	1
Clamp - Coupler-to-Clean Air Tube (86 mm)	5348	1
Clamp, 100-120 mm-12 mm Stainless	R07130028-13	1
Seal - Bulb Seal 25 mm CTL	131550-9C664	1

**EQUIPMENT AND SUPPLIES REQUIRED**

- 10 mm Socket
- Pliers
- Flat-head Screwdriver
- Trim Tool

**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.
- Keeps 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 removal 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.

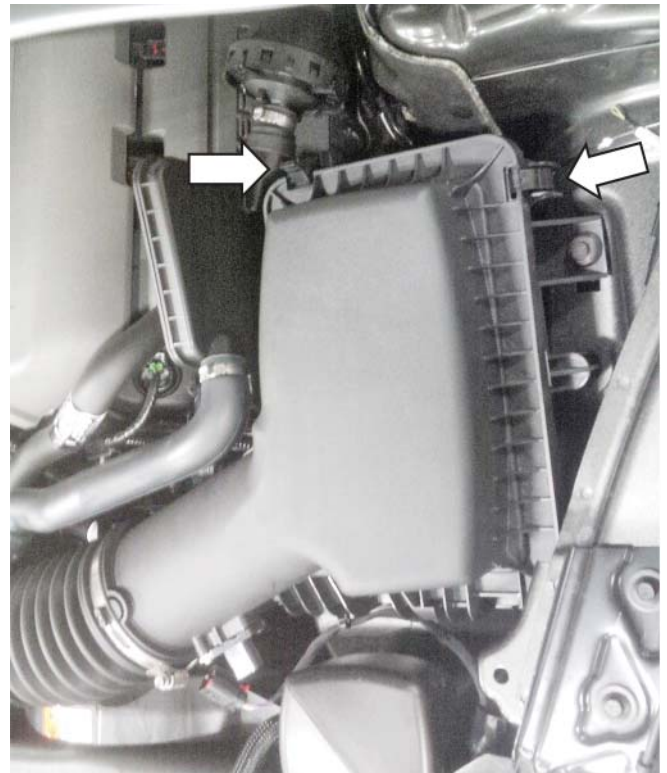
1. Cover both fenders with fender covers to protect the vehicle finish.
2. Disconnect the battery ground cable.
3. Disconnect the air temp sensor connector as shown.



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



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



6. Remove the air box lid and filter. Retain the lid for use during installation.



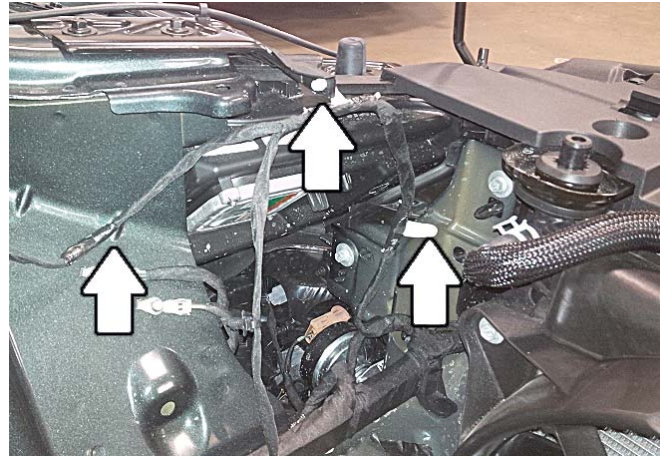
7. Using the 10 mm socket, remove the bolt holding the air box to the inner fender. Retain the bolt as it will be used during installation.



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



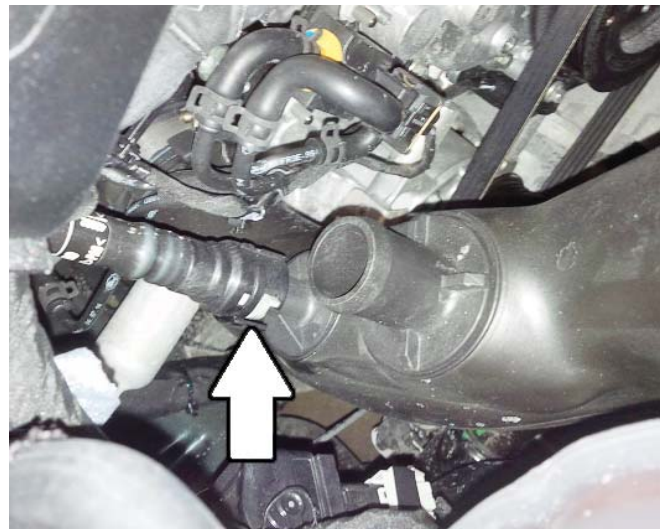
9. Remove the three (3) clips shown on the inner fender to give the slack needed in the wiring harness.



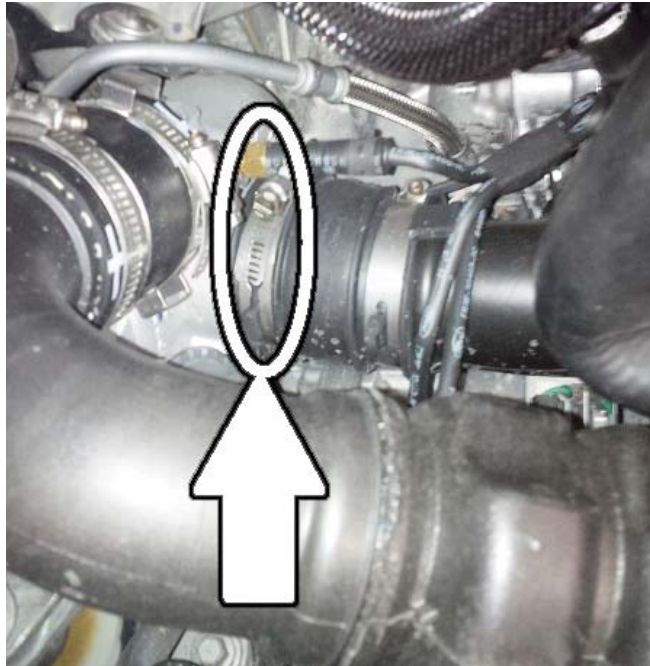
10. Remove the clamp holding the air bypass valve hose.



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, you can remove the clean air tube and air box from the vehicle.

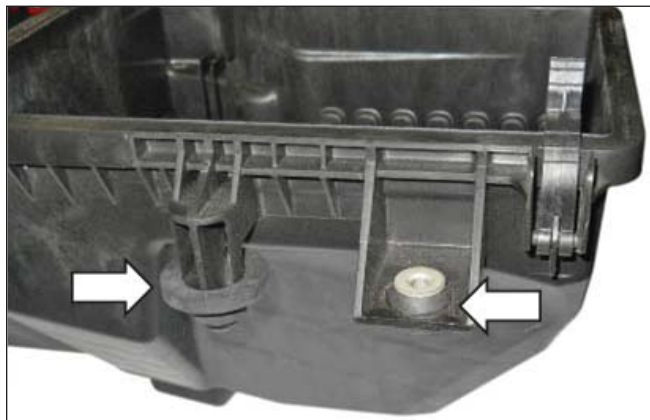


## SECTION B – INSTALLATION

1. Install the rubber grommet that was removed from the stock air box into the ROUSH air box (P/N: 131550-9A612), then insert the steel bushing.



13. Remove the steel bushing and two (2) rubber grommets from the stock air box. Retain these for use during installation.



2. Install the second grommet onto the air box (P/N: 131550-9A612).

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



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



4. Insert the dirty air inlet (P/N: 1315-9F763) into the air box (P/N: 131550-9A612).



5. Place the bulb seal (P/N: 131550-9C664) onto the top of the air box (P/N: 131550-9A612) and clip into the holes. Trim ends as required.



6. Insert the air box assembly into the vehicle.



7. 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.



8. Loosely attach the air filter (P/N: 131550-9601R) to the filter tube, leave the clamp loose so you can hide it once installed on the vehicle. Make sure the arrow on the filter is 90 degrees to the temperature sensor boss as shown.





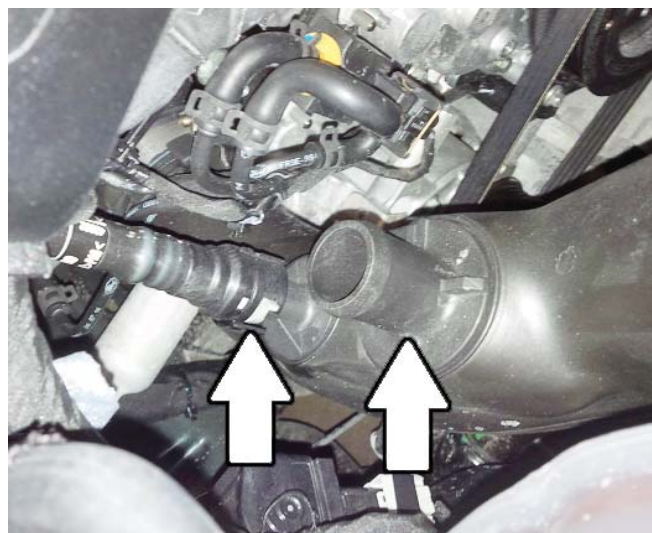
9. Slide the filter tube assembly into the air box (P/N: 131550-9A612), making sure the sensor boss is pointed toward the front of the vehicle. Using a 10 mm socket, install the two (2) supplied bolts (P/N: W500224). Torque to 10 Nm. Rotate the air filter clamp to a suitable location and torque to 3 Nm.

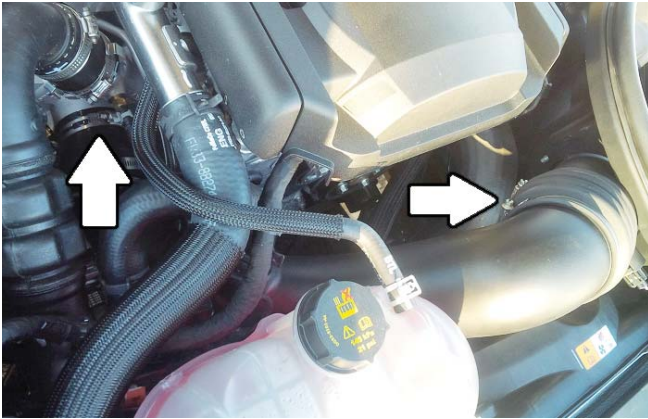


10. Install the clean air tube coupler (P/N: 131523-SILCP) onto the clean air tube (P/N: 131523-9B659) using hose clamps (P/N: 5340, 5348). Tighten the inner hose clamp to 3 Nm.



11. Insert clean air tube assembly between the turbo charger and the filter tube, tighten hose clamps to 3 Nm.  
12. 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.

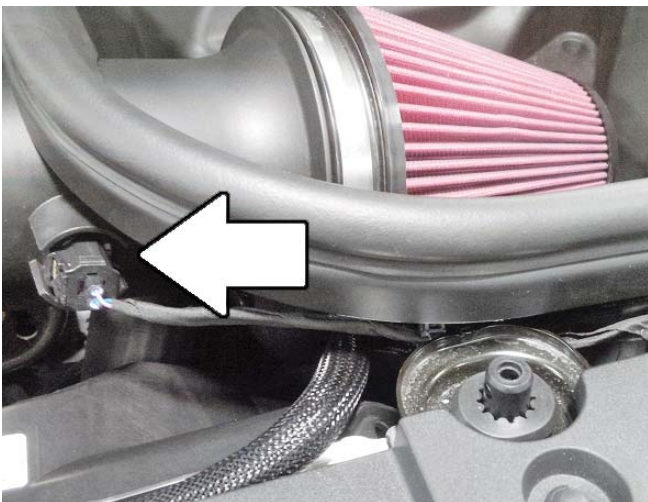




13. Remove the air temp sensor from the factory air box by twisting counterclockwise and re-install into the ROUSH filter tube (P/N: 131523-12B579) by twisting clockwise.



14. Connect the temperature sensor connector.





## **PCM FLASHING**

Proceed with steps 1 – 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.