

# 2015-2017 F-150 3.5L and 2.7L Ecoboost V6

Installation Instructions  
P/N: 421981 (1115TT-9600)



**ROUSH**  
PERFORMANCE

# 2015-2017 F-150 3.5L and 2.7L EcoBoost V6

## Installation Instructions

P/N: 421981 (1115TT-9600)

**Application:** 2015-2017 Ford F-150 2.7L EcoBoost V6, 2015-2017 Ford F-150 3.5L EcoBoost V6

**Important Note:**

Before installing the ROUSH Performance Product, please read through the installation procedure and verify that all items are present.

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**PACKING LIST FOR F-150 3.5L AND 2.7L ECOBOOST V6**

Description	Part Number	Quantity
Air Box	1115-9A612	1
Filter Tube	1115TT-12B579	1
Clean Air Tube	1115TT-9B660	1
Filter w/ Clamp	131550-9601R	1
Hardware Kit	1115TT-CAKHWK	1
Bolt (M8 x 1.25 x 25)	W500224-S437	2
Seal – Bulb Seal 25 mm CTL	1115-9B624	1
Rubber Seal Solid Round 0.5 inches	1115-9B624FOAM	1
Coupler – Air Box to Tube	1115TT-9B661	1
Coupler – CAT to DR	1115TT-9B662	1
Coupler – CAT to PS	1115TT-9B663	1
Clamp (110-130 mm)	R07130015-13	1
Clamp (100-120 mm)	R07130028-13	3
Clamp (3-1/16" to 4")	308707426	2
Hardware Kit B (2017 3.5L EcoBoost Only)	1115TT-CAKHWKB	1
Harness IAT Jumper	1117-12A690	1
Air Box Tray Bracket	1117-9B611	1
Bolt (M6 x 1.0 x 16)	W500013-S307	2
EO Sticker	D41830-9A095EO-AA	1

**EQUIPMENT AND SUPPLIES REQUIRED**

- Metric 1/4" Drive Socket Set
- Flat-head Screwdriver
- Trim Tool
- Pliers
- Drill
- 17/64" Drill Bit
- Center Punch

## 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 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. Release both clips holding the lid on the air box.



4. Loosen the clamp between the clean air tube and the passenger side turbo inlet.



5. Loosen the clamp between the clean air tube and the driver side turbo inlet.



6. Remove the IAT by twisting the sensor.



7. Remove the clean air tube and air box lid from the vehicle.



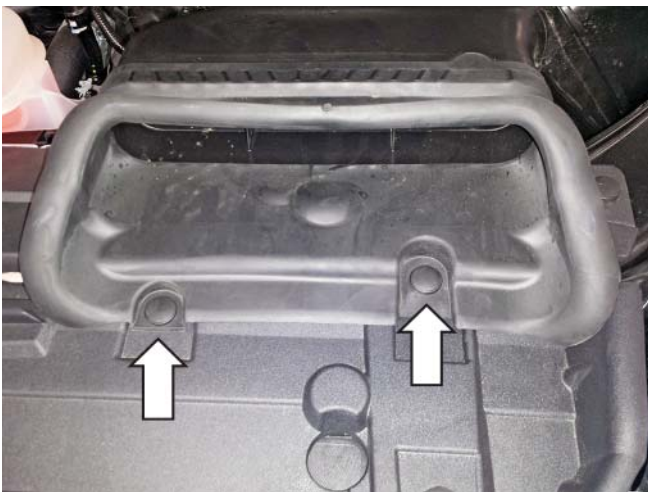


8. Remove the bolt retaining the stock air box to the inner driver side fender. Retain the bolt, sleeve and grommet for later use.



11. Remove the self-tapping screw retaining the dirty air inlet onto the lower air box.

9. Remove the two (2) push clips retaining the dirty air inlet duct to the grill closeout.



12. Remove the dirty air inlet from the lower air box.

10. Remove the lower air box and dirty air duct from the vehicle.



13. If necessary, remove the two (2) rubber grommets from the bottom of the air box and reinstall them into the tray below the air box.

## SECTION B — INSTALLATION

1. Insert the dirty air inlet into the Roush air box (P/N: 1115-9A612). Reuse the self-tapping screw that was removed earlier. Tighten to 3 Nm.



**IMPORTANT:** Do not remove the shown silencer rings.



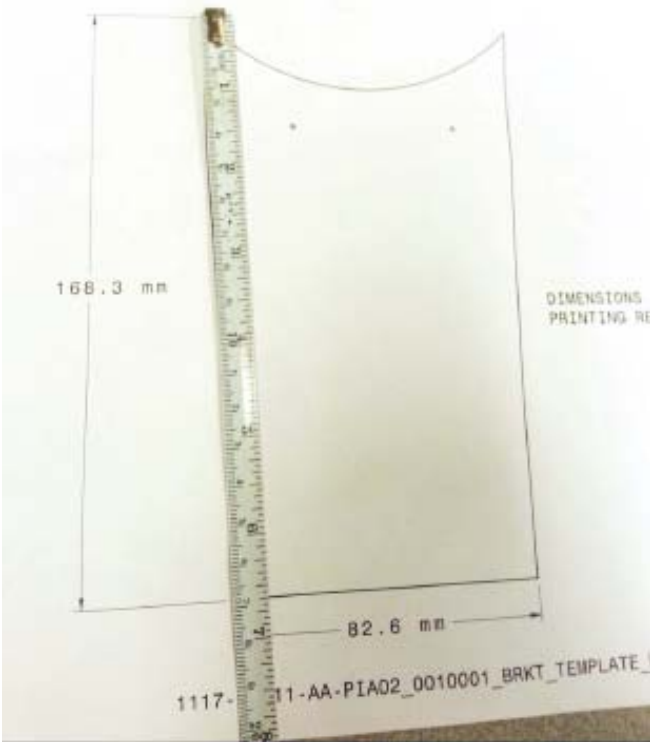
2. Reinstall the bolt, grommet and sleeve into the driver side fender. Tighten the bolt to 17.5 Nm.



**2015-2016 F-150 proceed to step 9.**

3. Print out the template and make sure the dimensions are correct. Cut out the template.





4. Tape the template to the side of the air box. Use a punch to mark the two (2) drill holes.

6. Mount the bracket (P/N: 117-9B611) to the outside of the air box using two (2) M6 bolts (P/N: W500013-S307). Torque to 10 Nm.



5. Drill the holes out using a 17/64" drill bit.



7. Install the Roush airbox into the truck by locating the two (2) bosses on the bottom of the box while aligned to the grommet.

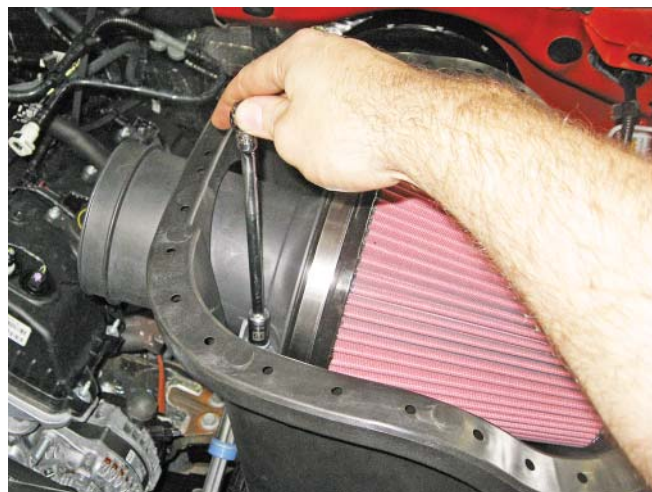


8. Install the air filter (P/N: 131550-9601R) onto the filter tube (P/N: 111550-12B579) and tighten the clamp to 3 Nm. Make sure the filter is installed (as shown) with the metal rib down.



10. Install the two (2) M8 bolts (P/N: W500224-S437) and tighten to 10 Nm.

9. Slide the filter and tube assembly into the air box. Twist the IAT sensor into the port as shown.  
**NOTE:** 2017 F-150 use the IAT sensor jumper harness (P/N: 117-12A690) to connect the IAT sensor.





11. Install couplers and clamps onto the clean air tube (P/N: 1115TT-9B660) as shown. Tighten the clamps retaining the coupler to the tube to 3 Nm. Leave the outside clamps loose (coupler: top P/N: 1115TT-9B663, bottom P/N: 1115TT-9B661, left P/N: 1115TT-9B662) (clamps: top P/N: R07130028-13, bottom P/N: R07130015-13 and P/N: R07130028-13, left P/N: 308707426).



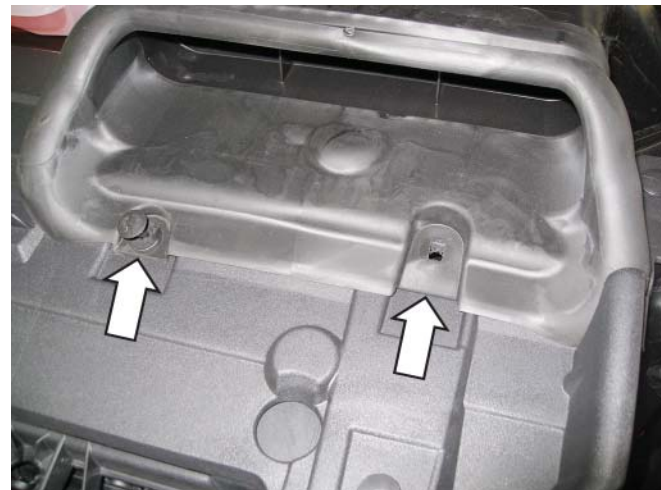
12. Install the clean air tube assembly between the throttle body and the air box. Tighten the clamps to 3 Nm.



13. Clip the harness and vacuum line into position on the air box bracket.



14. Reinstall the two (2) push pins into the dirty air inlet.





15. Insert the seal filler (P/N: 1115-9B624FOAM) halfway into the air box seal (P/N: 1115-9B624) as shown.



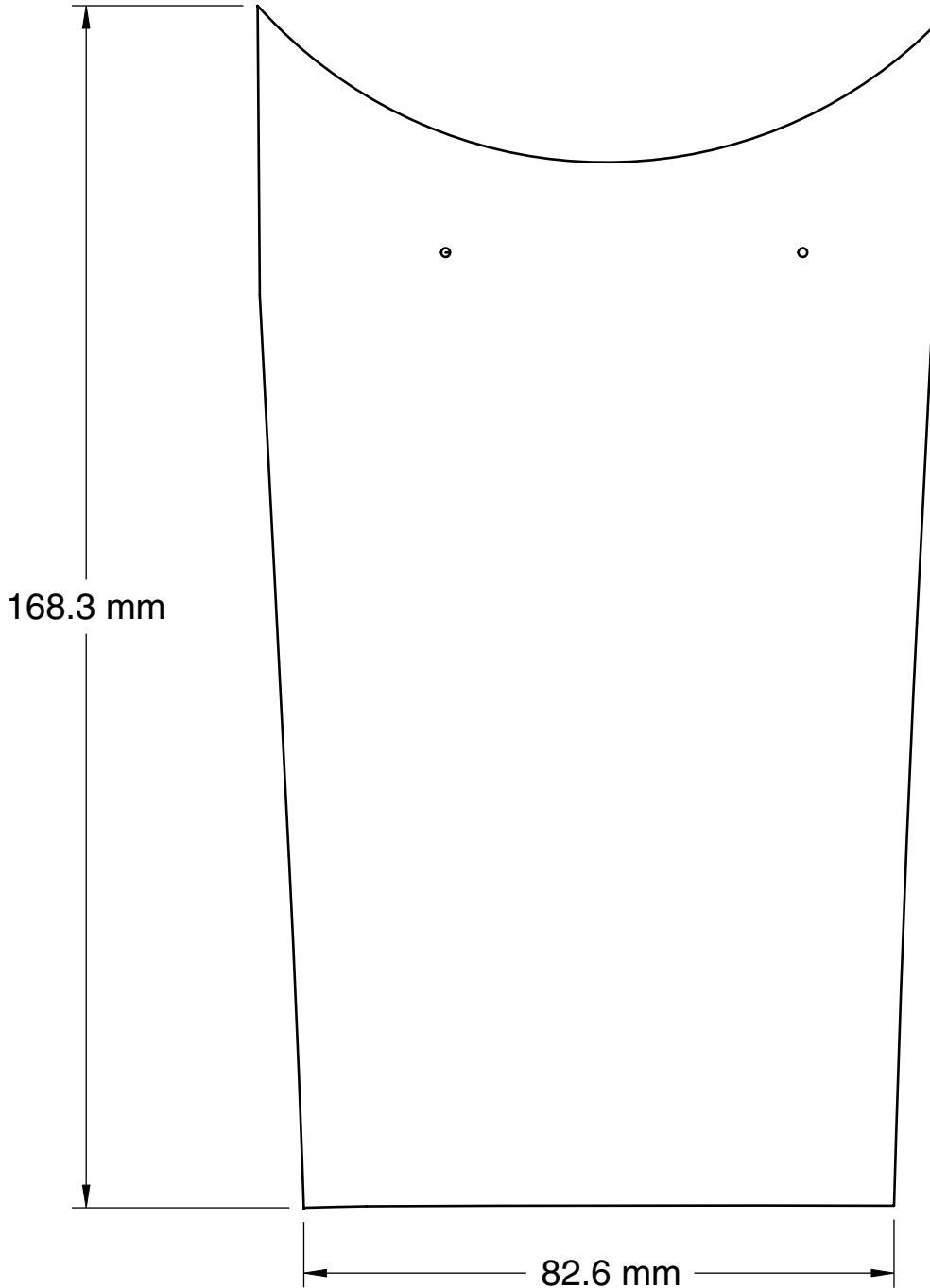
16. Install the air box seal starting in the location shown. You may need to trim your seal to the correct length. (**NOTE:** Start the seal at the middle of the inlet tube.)



17. Place the EO sticker under the hood of your vehicle on a clean, metal surface.

18. The installation is now complete.





DIMENSIONS ARE  
FOR PRINTING  
REFERENCE ONLY.