

2018 -2021 F-150 5.0L Air Induction System

Installation Instructions

P/N: 422267 (112150-9600)
422088 (111850-9600)



ROUSH
PERFORMANCE

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2018-2021 F-150 Air Induction System

Installation Instructions

P/N: 422267 (112150-9600)

EO:D-418-42

Application: 2018 -2021 Ford F-150 5.0L

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 F-150 5.0L COLD AIR INTAKE

Description	Part Number	Quantity
Air Box Tray	1115-9A612	1
MAF Tube - No Insert	111550-12B579	1
Clean Air Tube (Blow Molded)	111550-9B659	1
Air Filter - Conical Red	131550-9601R	1
Airbox cover- lid	1118-9643HC	1
Hardware Kit	1121-CAKWHKK	1
Self Tapping Screw M6 x 25 mm	W506976-S437	6
Bolt - MAF Tube to Airbox (M8 x 1.25 x 25)	W500224-S437	2
EPDM Coupler - Airbox to Tube	111550-9B661	1
EPDM Coupler - CAT to T-Body	111550-9B662	1
PCV Fitting – 3/8"	KLR-9N285	1
PCV Fitting – 5/8"	1311-9N285	1
Grommet – 5/8" ID	1150-58GRMT	2
Clamp - Worm Drive (110-130 mm) MAF Tube to Air Tube	R07130015-13	2
Clamp (90-110 mm -12 mm) Stainless	01368016100	2
ROUSH Sticker	ROUSH-STKR-7X1.25	2
Installation Manual	1315-P1INST	1
Foam Tape	1318-8D082	1
EO Label	D41842-9A095EO-AA	1
Vaccum Cap 11/32 (only used on MY2021)	6448K98	1
Push Nut- ROUND NO. 10 (Hydrocarbon Trap Retention)	94800A816	4

EQUIPMENT AND SUPPLIES REQUIRED

- Metric 1/4" Drive Socket Set
- Flat-head Screwdriver
- Trim Tool
- Torx Screwdriver

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



4. Loosen the hose clamps retaining the clean air tube to the throttle body and air box lid.



5. Disconnect the two (2) quick connect fittings from the clean air tube.



6. Release the two (2) clamps on the front of the air box. (2021 models will only have one clamp)



7. Remove the air box lid.



8. Remove the clean air tube from the vehicle.



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



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.



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.

3. Install the Roush air box (P/N: 1115-9A612) into the vehicle by locating the two (2) bosses on the bottom of the box while aligned to the grommet.

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.



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

4. 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.



5. Slide the filter and tube assembly into the air box.



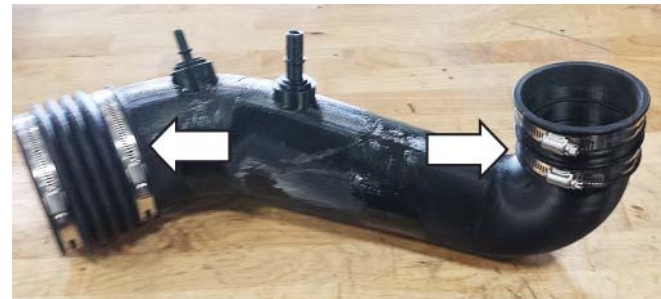
6. Install the two (2) M8 bolts (P/N: W500224-S437) and tighten to 10 Nm.



7. Install the rubber grommet (P/N: 1150-58GRMT) and fittings into the clean air tube. You will want to use soapy water or glass cleaner to aid the installation (fittings: left P/N: 1311-9N285, right P/N: KLR-9N285).



8. Install couplers and clamps onto the clean air tube (P/N: 1111550-9B659) as shown. Tighten the clamps retaining the coupler to the tube to 3 Nm. Leave outside two (2) clamps loose (couplers: right P/N: 111550-9B662, left P/N: 111550-9B662) (clamps: right P/N: R07130015-13, left P/N: 308707426).



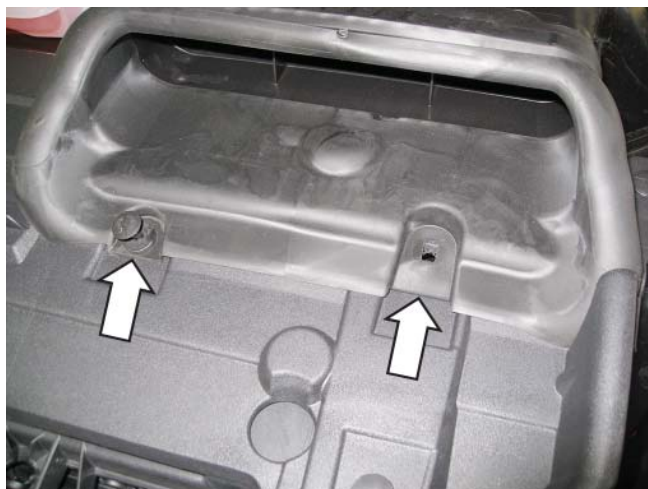
9. Install the clean air tube assembly between the throttle body and the air box. Tighten the clamps to 3 Nm.



10. Attach the two (2) quick connect hoses to the mating barbs on the clean air tube. 2021 Trucks will use qty 1 of PN:6448K98 to cap off the smaller fitting. There will only be one quick connect barb on the truck.



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



12. Install the air box cover (P/N: 1118-9643HC) as shown. Fasten to the air box tray using the provided six (6) self tapping screws (P/N: W506976-S437).



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 10.



13. Install foam tape (1318-8D082) on hood above airbox to prevent chaffing during extreme off road riving.



14. 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.



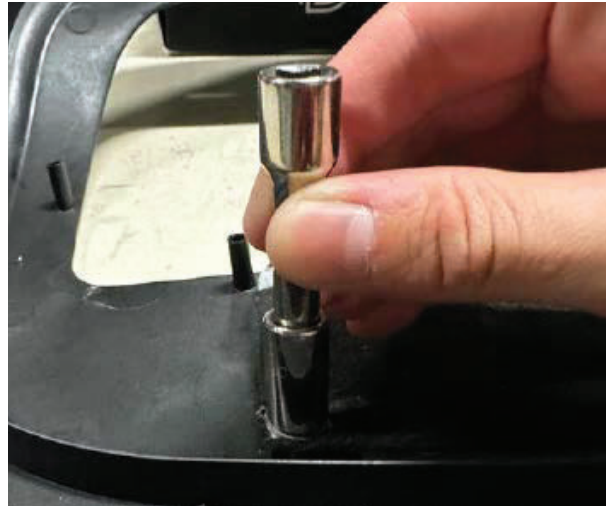
3. Transfer this hydrocarbon trap onto the Roush airbox lid as shown. Make sure the four corners of the hydrocarbon trap align with the Roush airbox lid pins, push the hydrocarbon trap onto the Roush airbox lid.



4. Using one Round Push Nut (94800A816) found in the Air Induction Hardware kit and place one onto each of the four pins with prongs facing upwards.



5. Using an 8mm 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.

