

17-19 FORD RAPTOR / F-150 3.5L ECOBOOST

CORSA
PERFORMANCE



IMPORTANT! WARRANTY AND INSTALLATION INSTRUCTIONS

Please Forward All Information to Consumer

Be sure to review the enclosed instructions prior to beginning the installation process. If you have any questions about the enclosed parts or instructions, or if you encounter a problem during installation:

CALL TECHNICAL SUPPORT: 440.891.0999 or 800.486.0999

**TO ACTIVATE YOUR WARRANTY GO TO:
CORSAPERFORMANCE.COM/WARRANTY**

COLOR INSTRUCTIONS ARE AVAILABLE BY PART NUMBER ON: CORSAPERFORMANCE.COM



NEVER work on a hot engine bay.
Allow time for the vehicle to cool.

INSTALL DIFFICULTY



RECOMMENDED TOOLS & SUPPLIES

- Flathead Screwdriver
- Ratchet
- 7,8,10,13 mm Sockets
- Trim Removal Tools
- Philips Screwdriver
- Ratchet Extension
- 10mm Wrench
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Please take time to read and understand these installation instructions.

CORSA recommends that the installation of this system be performed by a qualified service center or professional installer who has the necessary equipment, tools, and experienced personnel. However, if you decide to perform this installation yourself, the use of an additional person may be required.

WARNING: Never work on a hot engine bay. Allow time for the vehicle to cool.

Check that this air intake complies with your Federal, State, and Local laws. We recommend saving your stock system.

This warranty does not extend to damaged or defect in the finish of a product or to any product, that in the opinion of CORSA Performance, has been misused, damaged by accident or negligence, altered or modified in any way, faulty installation or installed contrary to CORSA installation instructions, or repaired by an unauthorized service facility.

Full warranty available on www.corsaperformance.com

Please confirm that all parts are present according to the bill of materials before beginning the installation.

If something is missing call Tech Support at 440.891.0999 or Toll Free: 1.800.486.0999



PREASSEMBLED MATERIALS

1. CORSA Air Box (412217)	2. CORSA Air Duct (441189)	3. CORSA Lid Assembly (652091)
4. Filter Adapter (460641)	Rubber Grommet (59045101) 1	Lid Screw (5900) 4 Rubber Washer (59025122) 4

FILTER OPTIONS

5. MaxFlow 5 Oiled Filter (5119)	6. DryTech Dry Filter (5160)	7. PowerCore Filter (61513)
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HARDWARE KIT

#48 Clamp (52048) 1	#56 Clamp (52056) 1	#64 Clamp (52064) 4
Ø4.0" Straight Sleeve (53109) 2.5 in	Ø4.0" Hump Hose (53206) 1	Ø3.5" x Ø3.0" Reducer (53307) 1
6mm x 16mm Bolt (59012210) 3	6mm x 25mm Bolt (59012212) 1	.25" x .75" Flat Washer (59020101) 1
.25" x .63" Flat Washer (59020104) 4	.25" Lock Washer (59020114) 4	6mm Nut (59061210) 1
.25" Spacer (652007) 1	Vent Line Insert (652022) 1	

*Locate the vehicle's battery and disconnect the negative battery cable.
This may reset the computer and clear old air flow data to help prevent CEL errors.*

REMOVAL INSTRUCTIONS

FACTORY INTAKE



- 1.** Disconnect the wiring harness from the air temperature sensor on back side of factory air duct.



- 2.** Loosen the clamps on the top and bottom intake tubes using a ratchet and 7mm socket or flathead screwdriver.



- 3.** Unclip the air box lid and remove the factory duct and lid assembly as one piece.



- 4.** Use a ratchet and 13mm socket or wrench to remove the bolt holding the air box to the vehicle.
NOTE: Save bolt for installation.

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REMOVAL INSTRUCTIONS

FACTORY INTAKE



- 5.** Remove the three plastic wire retention clips from back of factory air box using a trim removal tool.



- 6.** Remove the two plastic clips from the factory air scoop using a trim removal tool.
NOTE: Save clips for installation.



- 7.** Remove the bottom box assembly by pulling it up and out. Remove the rubber grommet and metal bushing from factory air box to inner fender mounting location.
NOTE: Save grommet and metal bushing for installation.



- 8.** Remove the bolt attaching the scoop to factory air box using a ratchet and 8mm socket. Remove the factory air scoop from the bottom of the air box.
NOTE: Save air scoop for installation.



- 9.** Remove the air temp sensor from factory duct by gently lifting tab and rotating counterclockwise until it stops then pulling straight out.
NOTE: Save for installation.



- 10.** Remove O-ring from the temp sensor.

This concludes the removal of the factory intake.

INSTALLATION INSTRUCTIONS

CORSA INTAKE



1. Unclip the quick disconnect vent hose on the driver side turbo inlet tube.



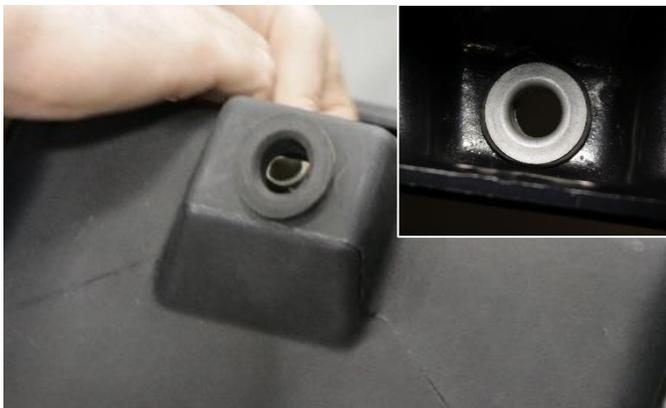
2. Correct orientation of vent line insert installation.



3. Locate vent line fitting and insert with the short side towards the turbo inlet.



4. Reconnect the vent hose.



5. Locate the CORSA air box, and the factory grommet and metal bushing from **Removal Step 7** and install grommet in air box then the metal bushing into grommet from inside box.



6. Locate the 6mm x 25mm bolt, .25" x .75" flat washer, one .25" x .63" flat washer, one .25" lock washer, 6mm nut, .25" spacer, and factory air scoop from removal step 8. Attach air scoop to air box placing the spacer between the scoop tab and air box. Tighten hardware with 10mm wrenches.

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INSTALLATION INSTRUCTIONS

CORSA INTAKE



7. Install CORSA air box into the vehicle by inserting posts on bottom of CORSA air box into factory grommets.



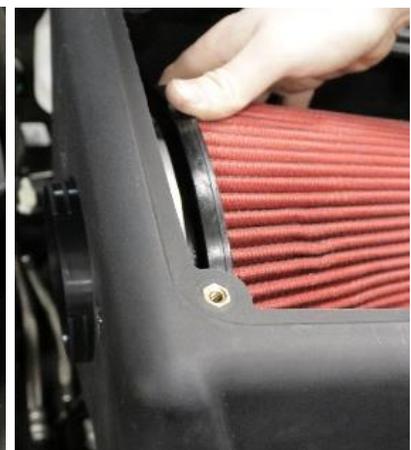
8. Locate the bolt from removal step 4 and attach the CORSA air box to the inner fender using a ratchet and 13mm socket.



9. Locate the air scoop retaining clips from removal step 6 and attach factory scoop.



10. Locate filter and filter adapter and insert the filter adapter into filter. Tighten clamp enough that it won't fall off filter but leave loose enough to rotate.

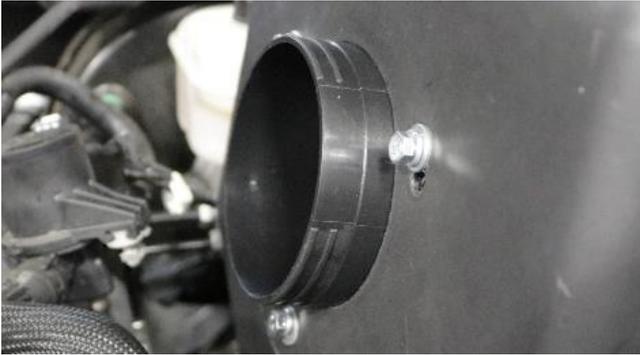


11. Insert the filter into the air box with the adapter side down. Rotate the top of the filter down into the air box and rotate the filter around and push the adapter through air box.

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INSTALLATION INSTRUCTIONS

CORSA INTAKE



- 12.** Locate three 6mm x 16mm bolts, three .25" x .63" flat washers, and three .25" lock washers. Attach filter adapter to air box and tighten using a ratchet and 10mm socket.



- 13.** Locate air temperature sensor from removal step 9 and CORSA air duct. Install sensor into grommet with tab facing the closest end of air duct.



- 14.** Locate the hump hose and two # 64 clamps. Install the hump hose and one clamp onto the air duct inlet end and tighten clamp using a flathead screwdriver or ratchet and 8mm socket. Loosely place other clamp on hump hose.



- 15.** Locate straight sleeve and remaining two #64 clamps. Install straight sleeve and one #64 clamp onto driver side turbo inlet tube and tighten clamp using a flathead screwdriver or ratchet and 8mm socket. Loosely place other #64 clamp onto straight sleeve.



- 16.** Locate reducer, #56 clamp and #48 clamp. Install large end of reducer and # 56 clamp onto upper outlet of air duct. Tighten clamp using a flathead screwdriver or ratchet and 8mm socket. Loosely place #48 clamp onto reducer.



- 17.** Install air duct into vehicle by placing the hump hose onto the filter adapter, then place reducer onto the upper stock inlet. Rotate duct down and into the straight sleeve.

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INSTALLATION INSTRUCTIONS

CORSA INTAKE



- 18.** Adjust air duct as necessary and tighten all clamps using a ratchet and 8mm socket or flat head screwdriver.

NOTE: Make sure to tighten the filter clamp as well.



- 19.** Clip wiring harness on air temperature sensor.



- 20.** Locate CORSA lid assembly and four lid screws with rubber washers. Install lid using Philips head screwdriver.

This concludes the installation of your CORSA air intake system.

*Check that this air intake complies with your Federal, State and Local laws.
We recommend saving your stock system.*

BEFORE ROAD TESTING

- 1.** Start engine, leaving the transmission in park and securing the parking brake.
 - 2.** Make sure to look and listen for any unusual noises or air leaks. Repair problems if needed.
 - 3.** Once completed it will be necessary to check periodically, after a few heat cycles, for realignment and tightening of all connections.
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MaxFlow 5 CARE AND CLEANING

Check the MaxFlow 5 cotton reusable filter periodically and remove any excessive dirt build-up by tapping the filter on the ground and brushing off the loosened dirt. Clean the filter by using a two stage cleaning kit to thoroughly clean and re-oil the filter. Re-oil every 10,000 miles without cleaning to improve filtering in sand and dirt. Clean only when dirt is very excessive or 50,000 miles.

Reference for Replacement Filters: MaxFlow 5 Filter Part # 5119, DryTech Filter Part # 5160 or PowerCore[®] Filter Part # 61513