



INSTALLATION GUIDE

CTS TURBO FORD F150/RAPTOR 2.7/3.5 ECOBOOST INTAKE



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WHAT IS INCLUDED

- CTS heat shield box
- CTS heat shield lid
- Intake pipes
- Air filter
- Restrictor tube
- Wire extension harness (2.7T only)
- Hardware



NOTES

Vehicle used in this guide is a 2019 FORD Raptor. Other cars will follow the same steps.

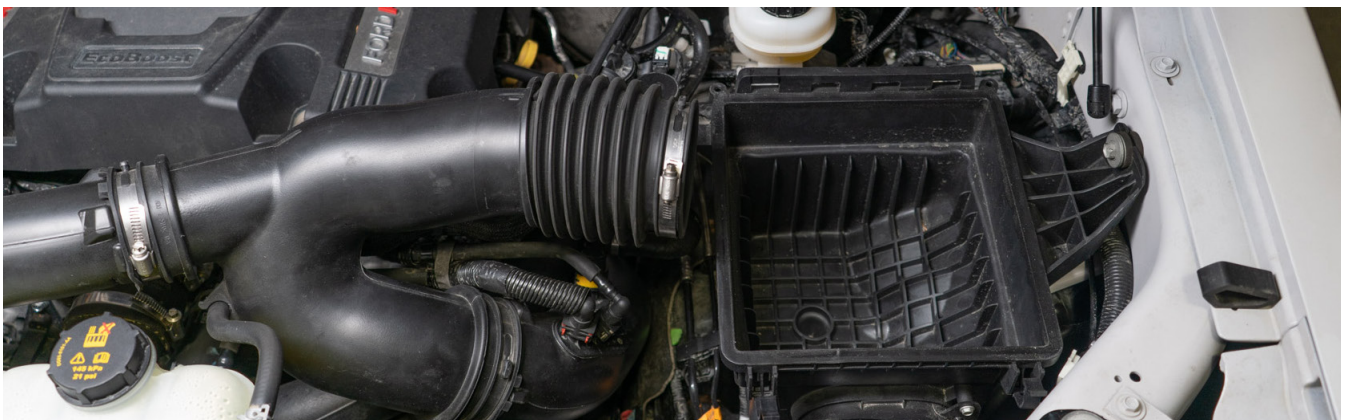
Always make sure the car is safe to work on. Do not work on a hot motor.

STEP 1

Remove the stock intake system.

Pull back the tabs that secure the top of the air box. Then loosen the clamp connecting the intake pipe and air box.

Remove the top of the air box and filter.



STEP 2

Remove the intake pipe.

First you need to disconnect the air temperature electrical connector from the upper intake pipe.

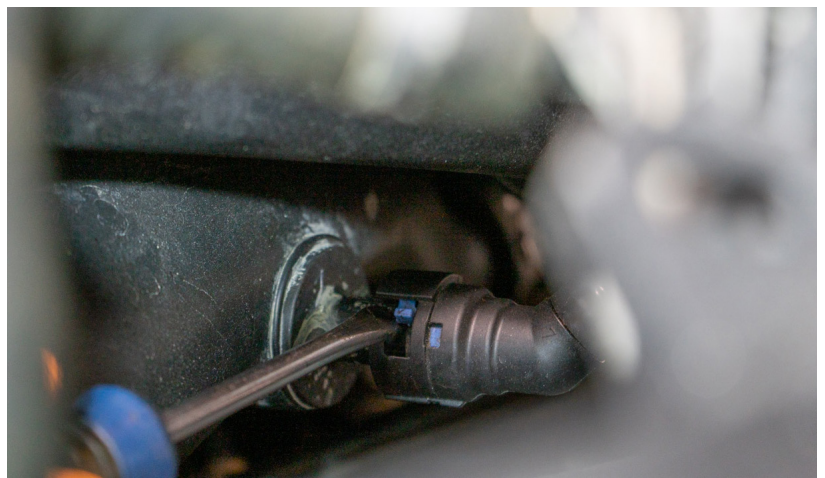
Loosen the 2 clamps indicated by the arrows. Before complete removal make sure to remove the coolant reservoir line from the intake pipe.



STEP 3

Next you need to remove the valve cover vent tube.

Slide the clip over as indicated and remove the vent fitting.



STEP 4

You now need to insert the vent restricter tube in to the valve cover vent tube. It is a tight fit and will take some force to go in.

****VERY IMPORTANT****

The long side of the vent tube HAS to face toward the front of the vehicle. If orientation is wrong there will be a CEL.

Reinstall the fitting.

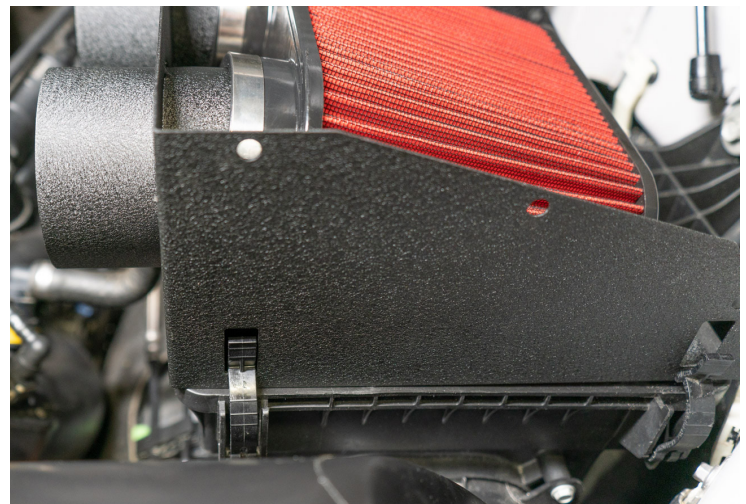


STEP 5

Assemble the air filter and heat shield. Tighten the clamps.

Install heat shield as shown. Make sure the heat shield tab is under the OEM lower airbox.

Re-clip the locking tabs to the heat shield.

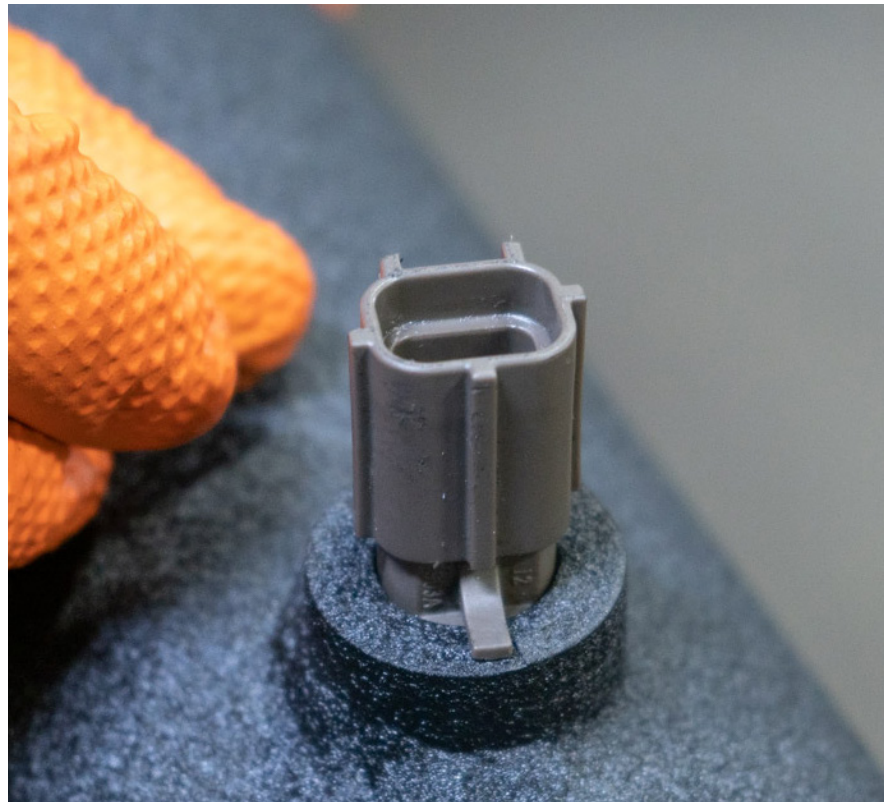


STEP 6

Transfer the air temperature sensor to the CTS intake pipe.

You need to turn to release the sensor.

Insert and turn the air temperature sensor and rotate until the tab touches intake pipe stopper.



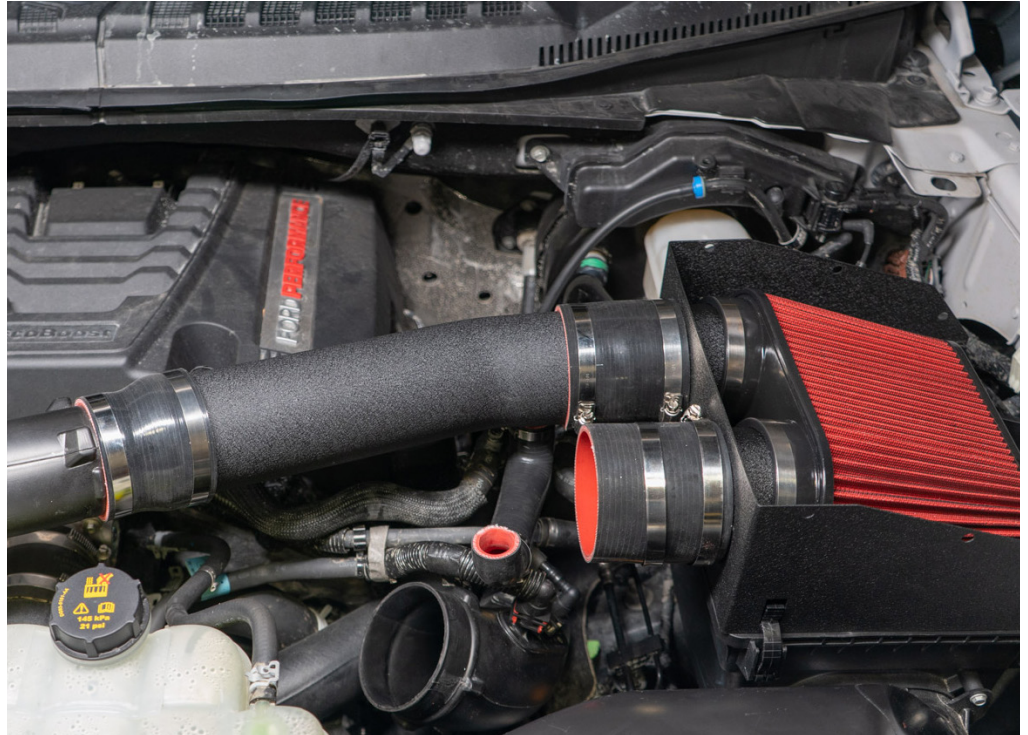
STEP 7

Install intake pipes.

Install the longer intake pipe first that hold the air temperature sensor.

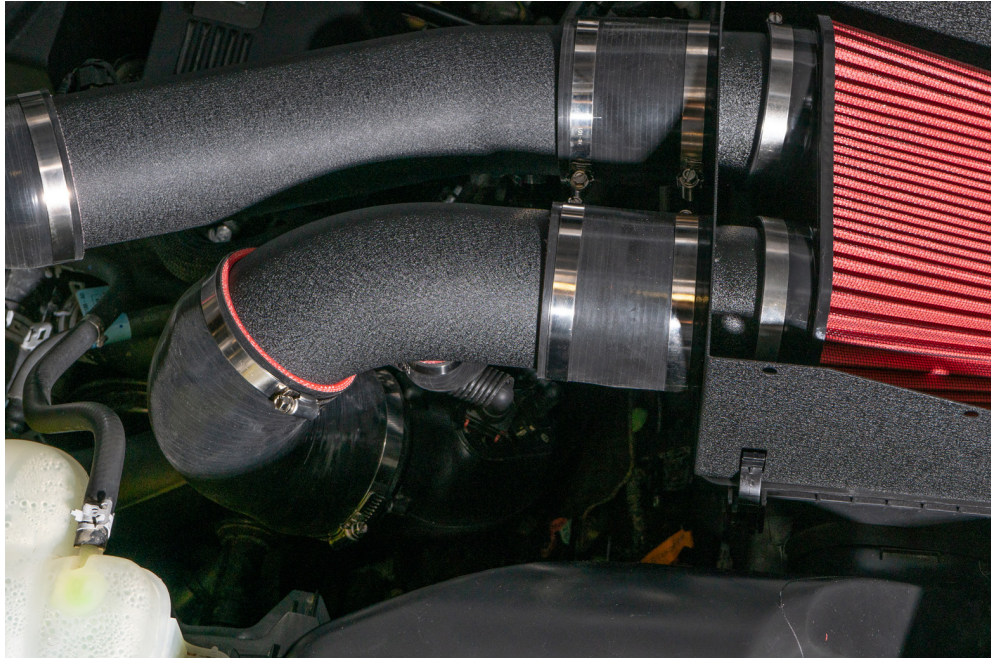
Reconnect the air temperature electrical connector.

Install the silicone that will connect the 2 intake pipes.



STEP 8

Install the shorter intake tube and connect the silicone connecting the 2 intake pipes.



STEP 8

Check all clamps are and connectors are secure and you are done! You have the option to have the top heat shield on or off, which ever you prefer.

