

2021+ FORD RAPTOR & F150 3.5L ECOBOOST TURBO INLET TUBES

INSTALL INSTRUCTIONS

Introduction ///

The goal of AMS Performance is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs AMS Performance will never compromise the quality or performance of our products. In addition, AMS Performance will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. AMS Performance was built on a foundation of integrity. This is who we are. This is what you can count on.

A vehicle modified by the use of performance parts and tuning may not meet the legal requirements for use on public roads. AMS Performance makes no claims of compliance unless otherwise stated on a per-product basis. Use or installation of performance parts and tuning may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty and new OEM part warranty. There is no stated or implied guarantee by AMS of continued OEM vehicle warranty, insurance coverage, or emissions compliance, due to the stress placed on your vehicle by performance parts and our inability to monitor its use, tuning or modification.

These instructions are not intended to be a comprehensive guide for installation as there are many variables that may affect your particular vehicle, including but not limited to model year differences, sub-model/trim/optional equipment differences, the presence of non-OEM parts, or other modifications that may have previously been completed. A basic understanding of automotive parts and systems and novice mechanical skills should be all that is necessary for installation, but certain circumstances may necessitate professional installation.

AMS Performance is committed to providing quality support for our products. If you are in need of technical support, installation help, or a replacement component, our Customer Service Team is available directly via telephone at 847-709-0530, or digitally via the contact form linked here: amsperformance.com/support

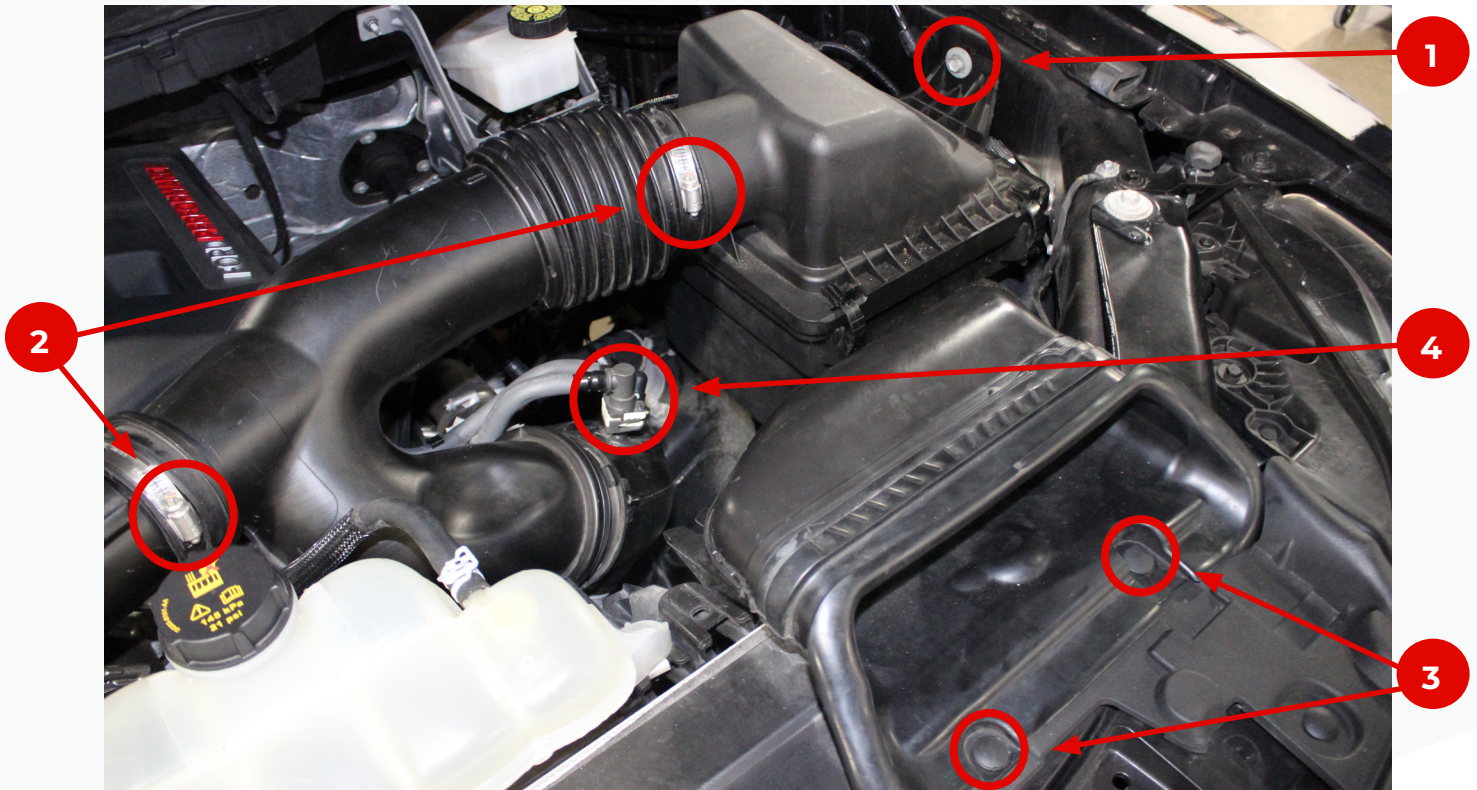
Table of contents ///

02 | Removal

05 | Install

REMOVAL

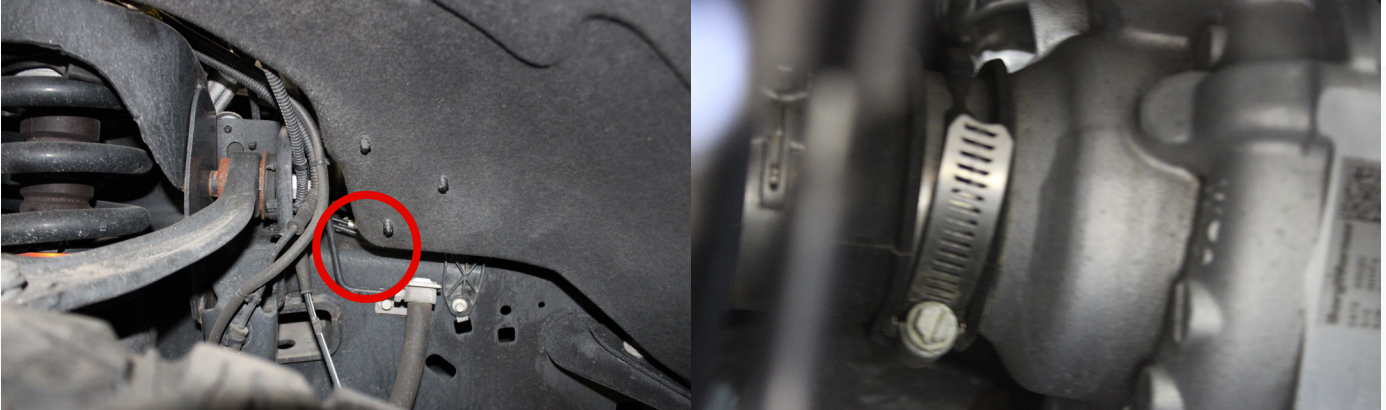
1. Remove the 13mm bolt connecting the air box to the inner fender.
2. Loosen the 7mm worm-drive clamps securing the factory air box Y-tube.
3. Remove the two retaining clips securing the air box inlet to the radiator support cover.
4. Unclip and remove the 2 vacuum lines off the lower Turbo inlet and the BOV recirculation tube.



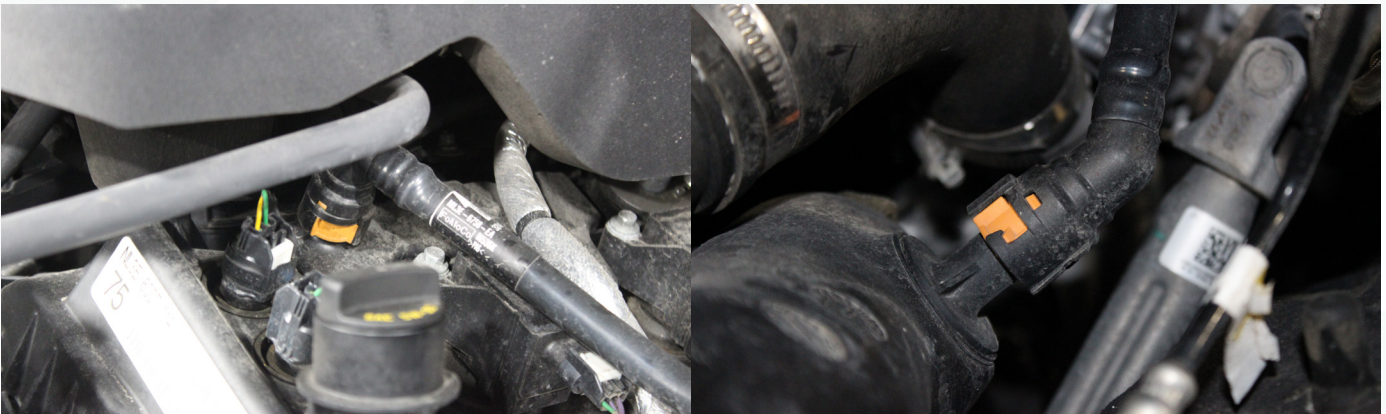
5. Disconnect the Intake Air Temperature (IAT) sensor electrical connector from the intake tube and remove the airbox and intake tube.



6. From the driver-side fender well, loosen the turbo inlet clamp using extensions and a 7mm socket.



7. Locate the PCV hose fitting on the driver side valve cover and driver side inlet tube. You will need to break the orange locking tab at the valve cover connection with a small pick or flat-head screwdriver to remove the hose and inlet tube.



8. Gather the 14" silicone hose, the (2) #10 worm drive clamps and the 45° and 90° fittings. Place the clamps on the hose and install the new fittings onto the hose and be sure the fittings mirror each other. Place the clamps over the fittings and tighten. When installing the new hose, the fittings will click when seated onto the tabs.



9. Loosen the turbo inlet clamp on the passenger side just as you did the drivers side in step 6.

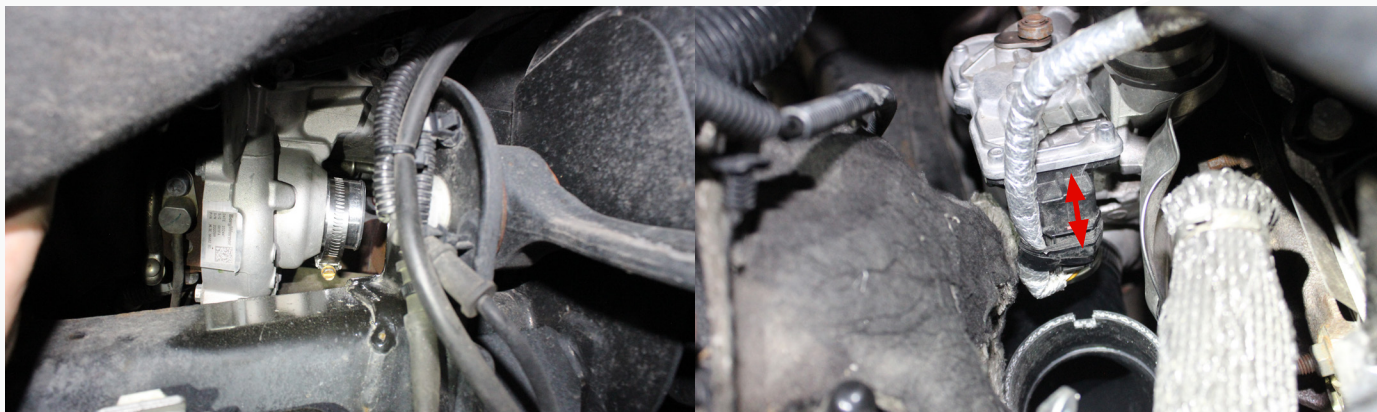


10. Carefully remove the passenger-side turbo inlet tube. Removal will require controlled rotation and maneuvering.

Caution: Do not allow the inlet tube to contact or stress the turbocharger wastegate actuator wiring connector.

INSTALL

11. Install the #28 clamp onto the compressor cover and the silicone from the top onto the compressor cover. Position the clamp on the silicone and fully seat the silicone onto the compressor cover. Center the silicone keyway with the wastegate actuator plug as shown by the arrows.

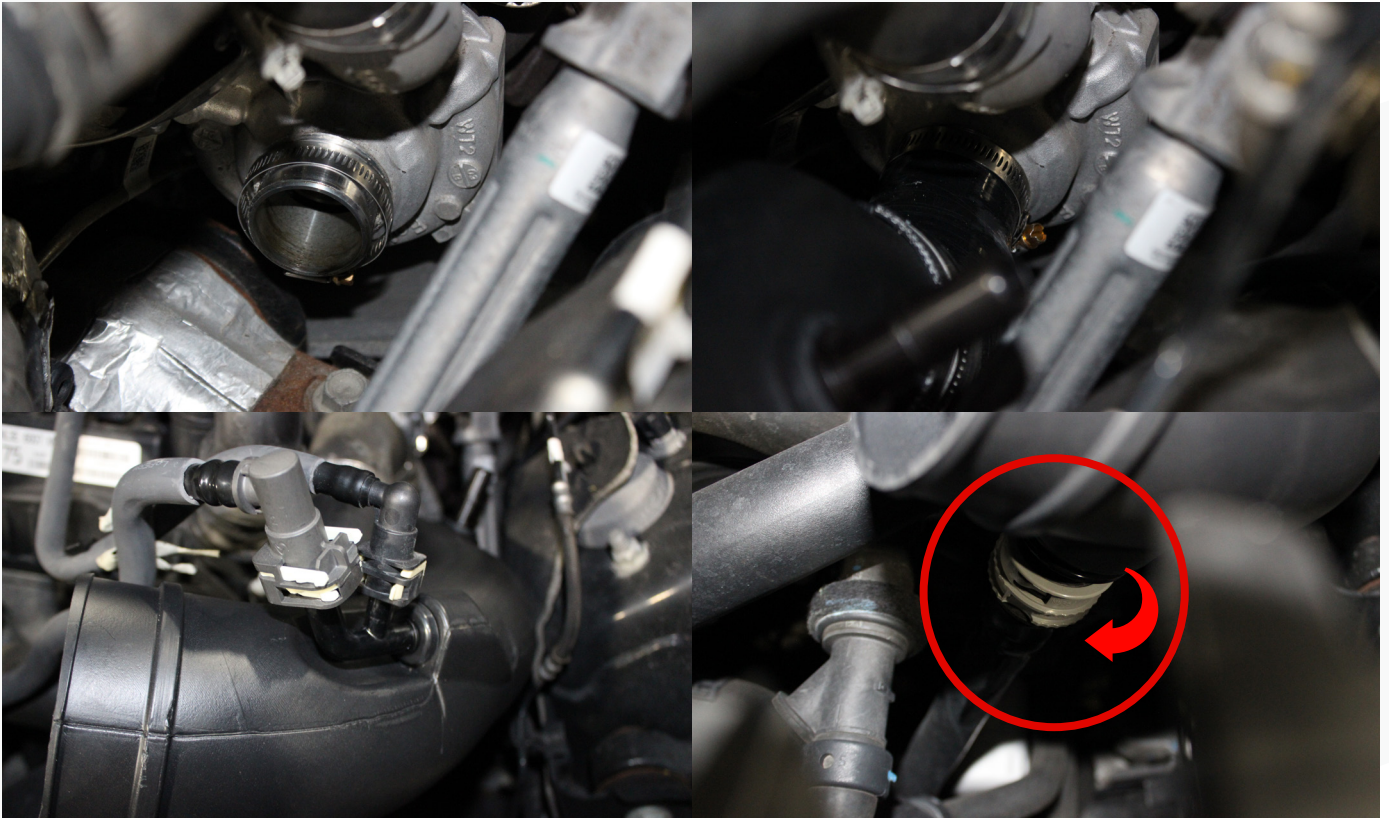


12. Place #44 clamp onto the top of the inlet silicone, position the clamp so the clamp bolt is accessible from the front of the truck.

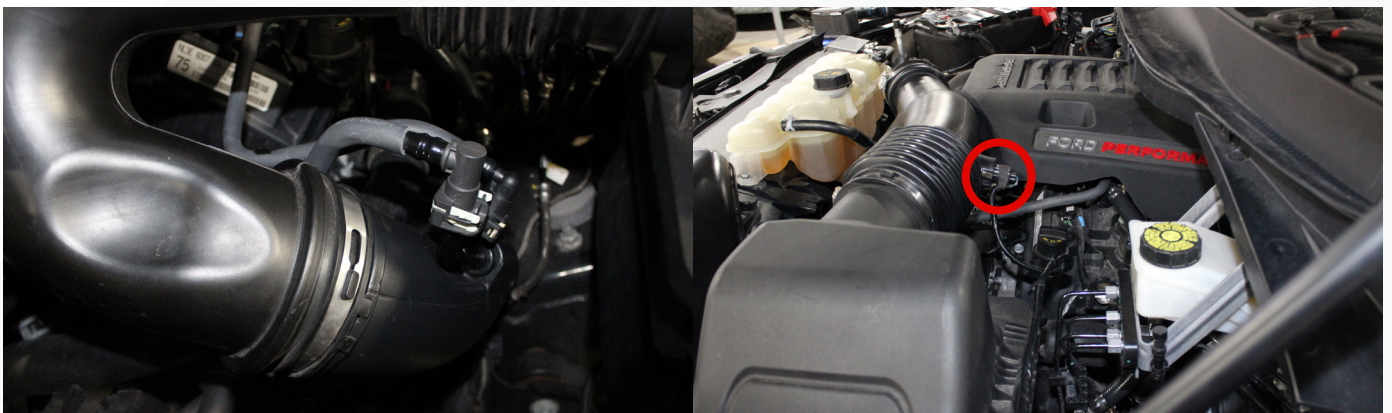
Note: Clamp orientation shown out of vehicle for illustration purposes.



13. Install the passenger side inlet tube into the silicone. Ensure the key on the inlet tube is aligned with the key on the silicone. You may have to reach under and push up on the inlet silicone while pushing in the inlet tube.
14. Install the driver's side inlet tube with a #28 clamp and re-connect the (2) quick connect lines on top of the driver side inlet, along with the BOV recirculation tube on the bottom side. This can easily be done from within the engine bay.



15. Re-install the air filter box and connect the driver side tube using the factory clamp on the airbox Y-tube. Reconnect the Intake air temp sensor.



16. Locate silicone P5819 and the metal jumper tube. Place the #72 clamp on the passenger side inlet tube and the #48 clamp on the small side of the silicone. Place the jumper tube into the silicone so half of the jumper sticks out and tighten the clamps. Install the air box onto other side of the jumper and tighten the clamp.



17. Check over all the clamps and make sure everything is tight.
18. Congratulations! Your AMS Performance Turbo inlet pipes are installed!
Enjoy the increased performance!