



2021+ FORD F-150 ECOBOOST CHARGE PIPES

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

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REMOVAL

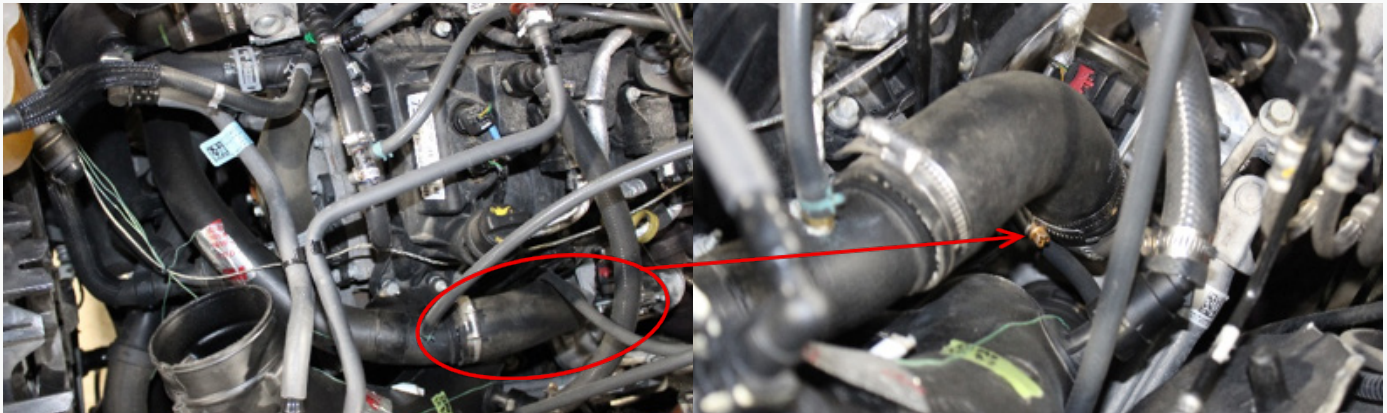
1. Raptor/Tremor models only: Remove the lower skid plate under the vehicle.



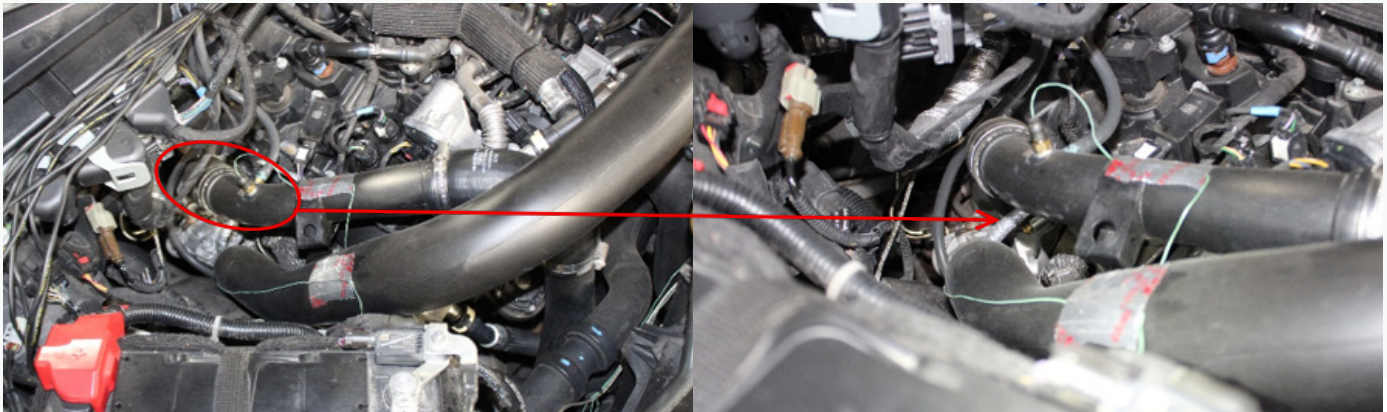
2. Remove the 13mm bolt holding the airbox to the fender, twist out the air temperature sensor and remove the harness from the airbox. Remove the airbox.



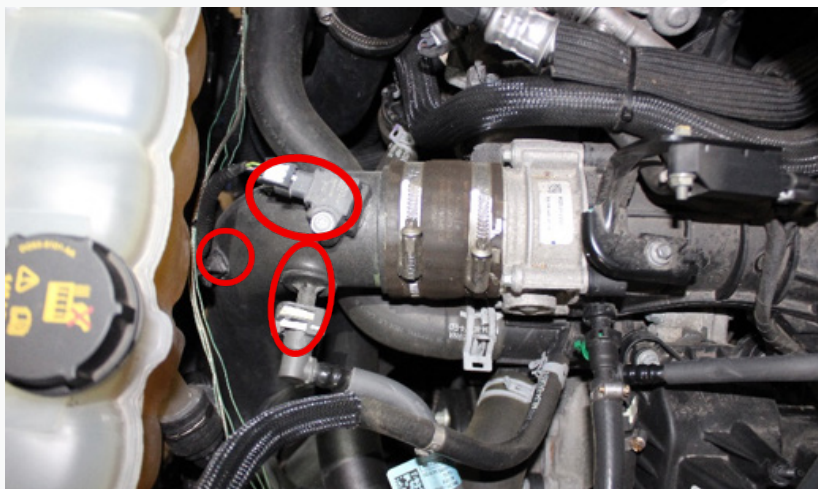
3. Loosen the clamps on the driver's side charge pipe starting at the turbo compressor cover.



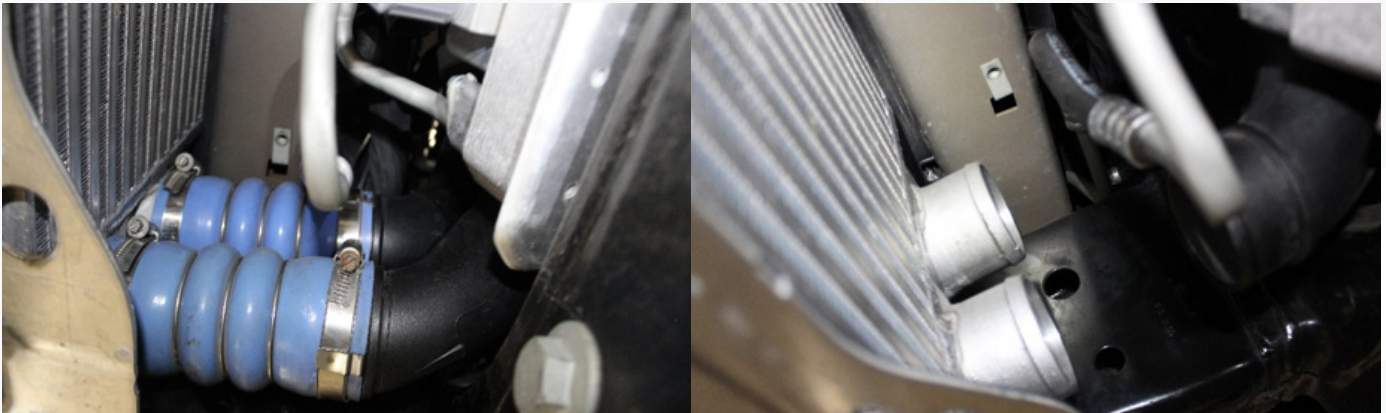
4. Loosen the clamps on the passenger side charge pipe starting at the turbo compressor cover.



5. Disconnect the MAP, EVAP connectors and unclip the MAP harness from tube. Loosen the clamps on the throttle body.



6. Disconnect and remove charge pipe silicones located on the intercooler. These are not reused.



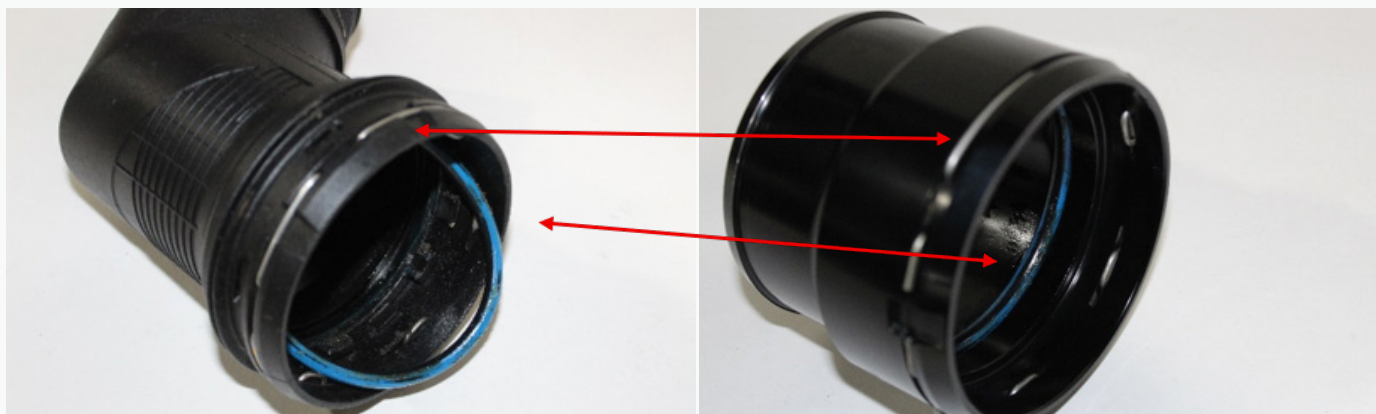
7. On the driver side of the intercooler remove the plastic elbow by releasing the lock ring out and pulling the elbow away from the intercooler.



8. Remove all the charge pipes and factory couplers from the engine bay. They should be able to come out the top. You may need to release the inlet tube out of the mount to move it slightly out of the way. This will also make installation easier later.



9. Locate the billet adapter and swap over the o-ring and lock clip from the plastic elbow over to the billet adapter. Install billet adapter onto intercooler.



INSTALLATION

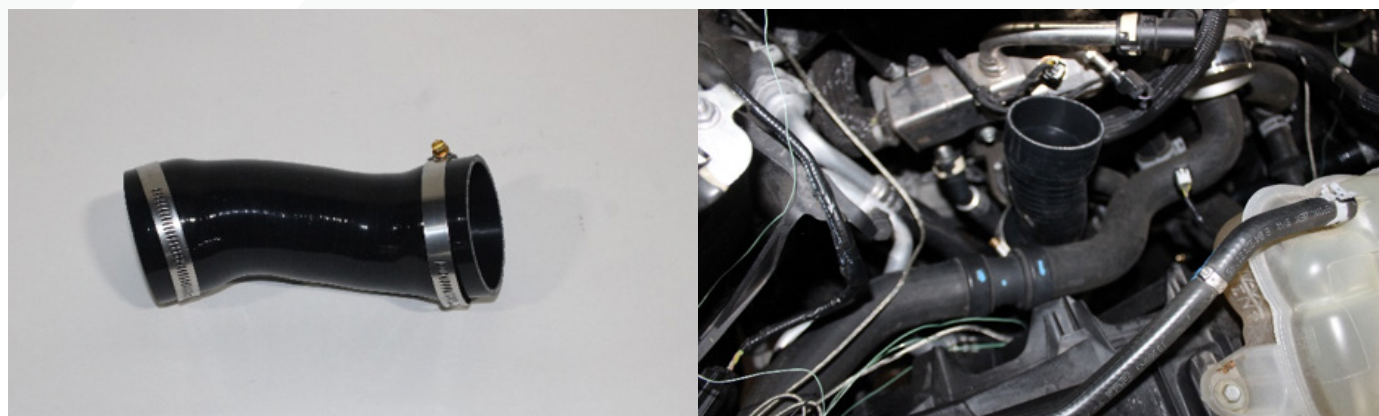


10. Locate the passenger side AMS lower charge pipe and silicone P5879, (2) #44 clamps. Feed the charge pipe up from the bottom and install it on intercooler.

Note: Leave all the clamps loose for any final adjustments once everything is in place.



11. Locate silicone P5878 and (2) #44 clamps and place onto charge pipe from step 10.



12. Use P5877, (1) #44 clamp, (1) #28 clamp and install onto upper charge pipe with AMS logo. Install into silicone from step 11 and onto the passenger side turbo. Leave clamps loose for final adjustment.



13. Take the remaining driver side AMS charge pipe and P5881 silicone and (2) #44 clamps. Install the intercooler silicone first at a slight 45° angle.



14. Feed the charge pipe from the top, you will have to go underneath to finish the connection into the silicone. Install P5880 with a #44 clamp and a #28 clamp onto driver turbo and charge pipe.



15. Take silicone P5883 and (2) #56 clamps and install the silicone onto the billet connector you installed on the intercooler in step 9.



16. Grab the new AMS throttle body charge pipe and install the MAP sensor with the provided bolt.

Note: If you are not using the NPT plug for an accessory be sure to remove it and add sealant to it before installation.



17. Locate the 3" straight silicone and (2) #48 clamps, install silicone onto the driver side charge pipe and feed down from the top along the radiator and down to the P5883 from step 15. Re-connect EVAP hose to barb fitting.



18. Now that everything is in place it is a good idea to look at the charge pipes from above and below and make any adjustments so that there is no contact between charge pipes and other components. Once everything is adjusted to satisfaction, go ahead and tighten down the clamps the rest of the way.

19. Reinstall the air filter box.

Congratulations! Your new AMS 2021+ F-150 Charge pipes are installed. Enjoy!!