



advanced FLOW engineering Turbo Inlet Pipes

Instruction Manual P/N: 55-20002

Make: FORD	Model: F-150	Year: 2021-2025	Engine: V6-3.5L(tt)
Make: FORD	Model: F-150 Raptor	Year: 2021-2025	Engine: V6-3.5L(tt)
Make: FORD	Model: Expedition	Year: 2022-2026	Engine: V6-3.5L(tt)
Make: LINCOLN	Model: Navigator	Year: 2022-2025	Engine: V6-3.5L(tt)



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7185.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Retain factory parts for future use.

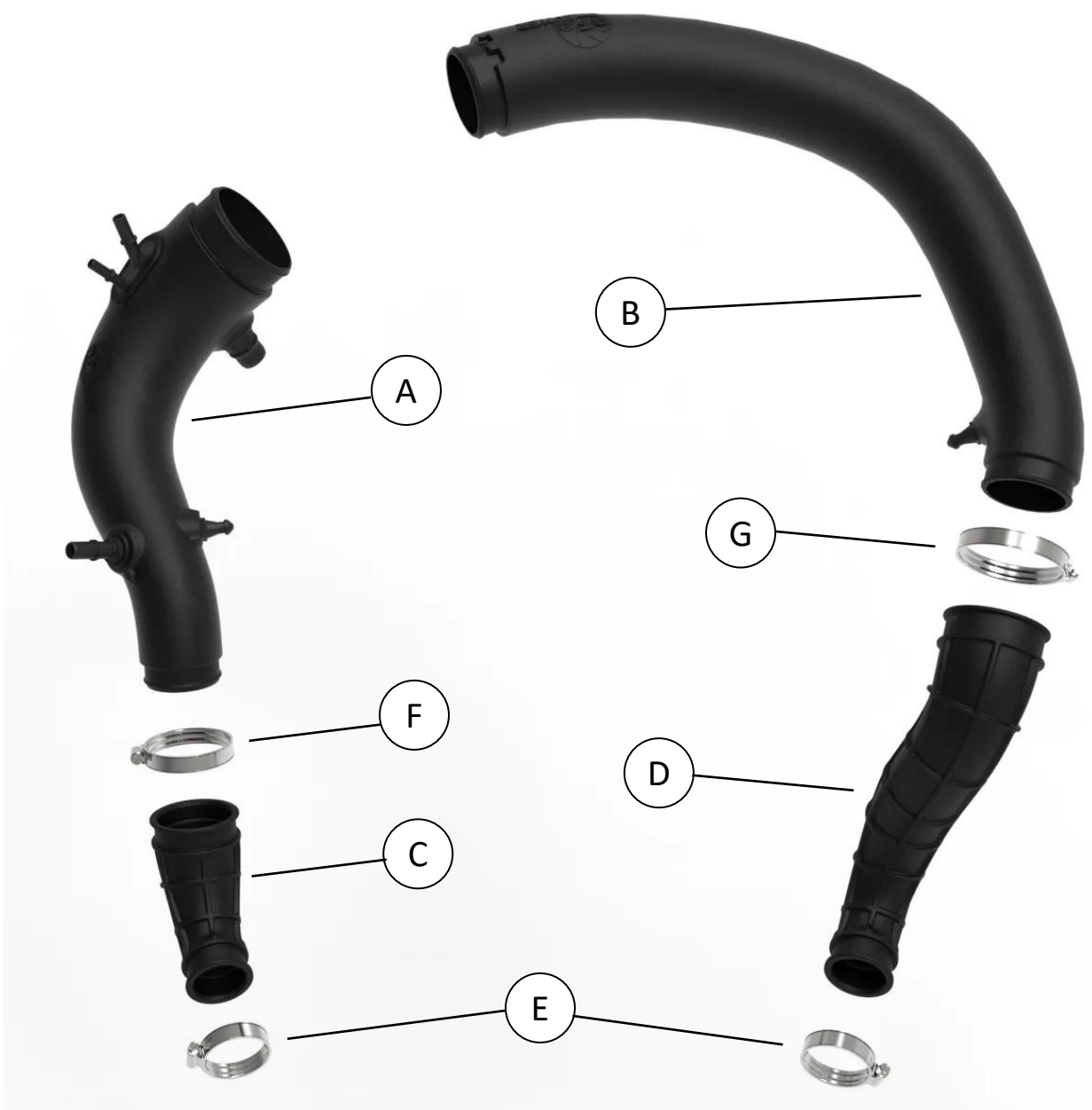
Label	Qty.	UoM	Description	Part Number
A	1	Ea	Turbo Inlet Pipe (Driver Side)	05-5520002B1
B	1	Ea	Turbo Inlet Pipe (Passenger Side)	05-5520002B2
C	1	Ea	Coupling, Silicone Reducer (Driver Side)	05-01581
D	1	Ea	Coupling, Silicone Reducer (Passenger Side)	05-01684
E	2	Ea	Clamp, SmartSeal, #032	03-50655
F	1	Ea	Clamp, SmartSeal, #044	03-50656
G	1	Ea	Clamp, SmartSeal, #052	03-50786

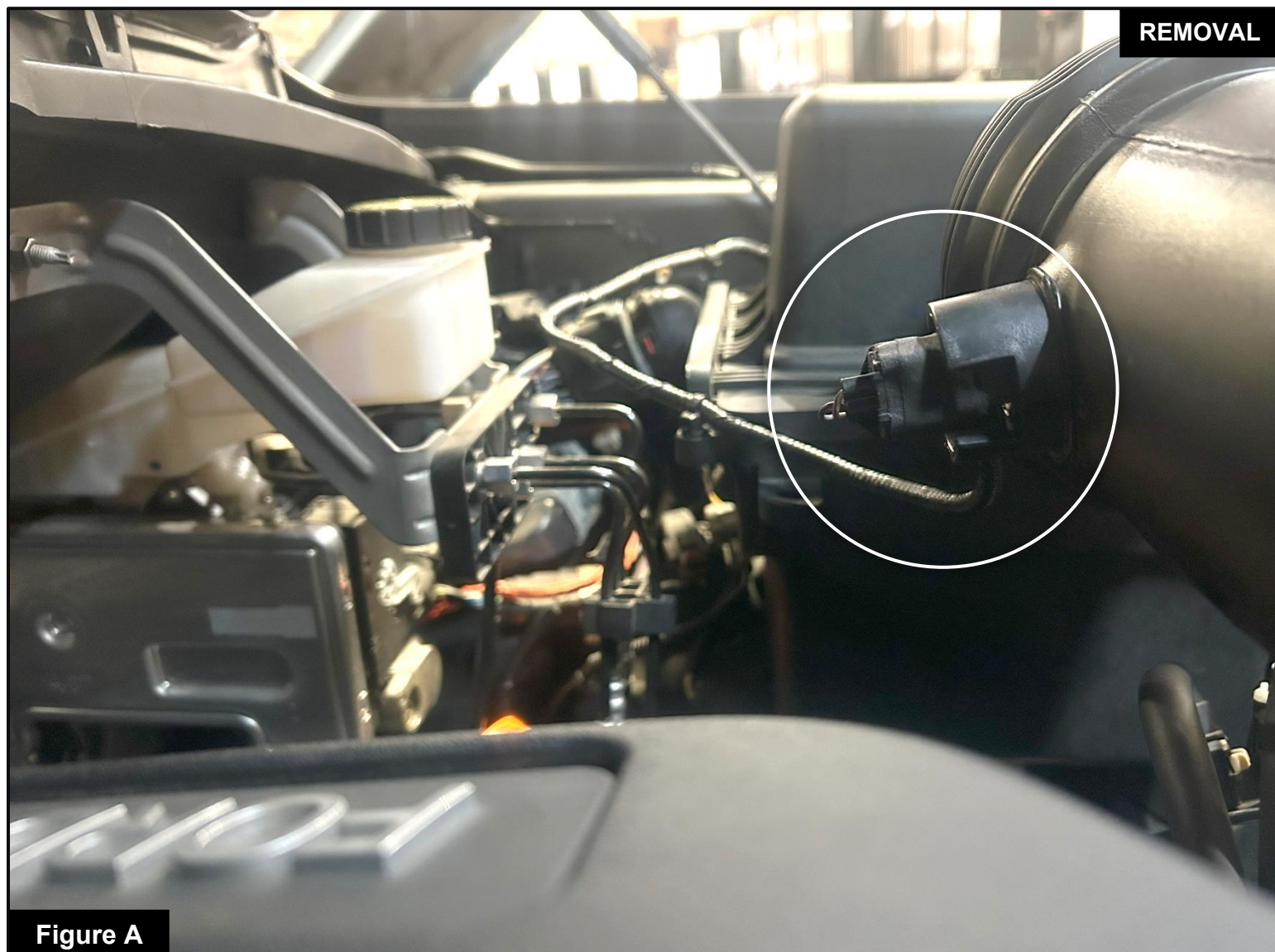
Installation will require the following tools:

Long flathead screwdriver, trim removal tool, 7mm, 8mm, 13mm Nut drivers or Socket and Ratchets with extensions, Lubricant Spray

Emissions Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.

Warranty Information available at: <https://afepower.com/contact#warranty>





Refer to Figure A for Step 1

Note: Steps 1 to 6 describe how to remove the factory air intake system. If you have an aFe POWER intake or another aftermarket intake, please refer to the instructions that were included with the aftermarket intake for install/removal of that intake.

Step 1: Unplug the Intake Air Temperature sensor harness from the back side of the intake tube.

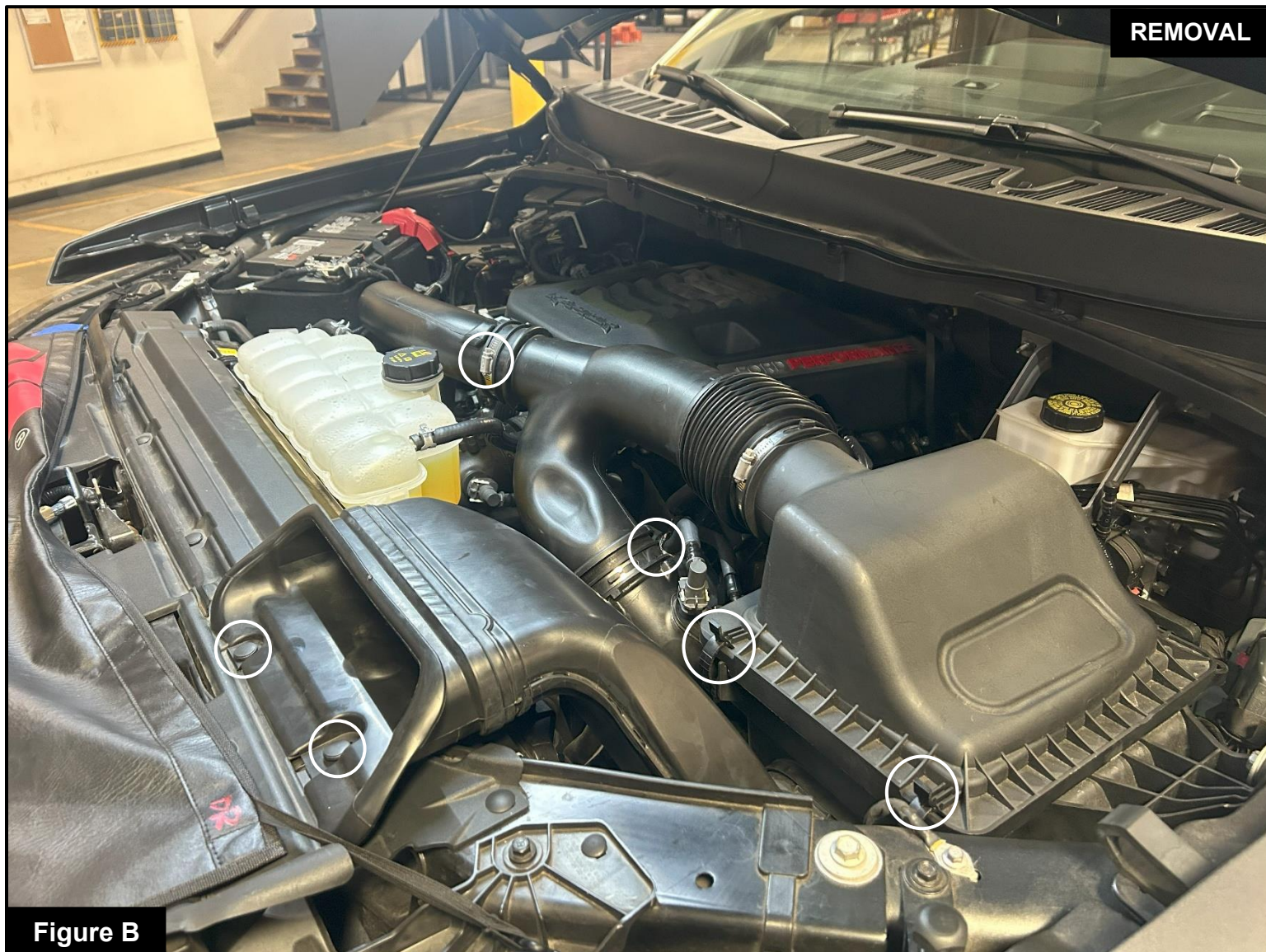


Figure B

Refer to Figure B for Steps 2-4

Step 2: Loosen the two clamps connecting the intake tube to the turbo inlet pipes.

Step 3: Unclip the top of the factory air box and remove the intake tube, air filter and top of the air box from the vehicle.

Step 4: Remove the two plastic rivets securing the front scoop of the housing.



Refer to Figure C for Steps 5-6

Step 5: Unclip the Air Temperature sensor wire from the back of the air box.

Step 6: Remove the 13mm screw securing the air box to the fender, then pull the factory air box out of the truck.

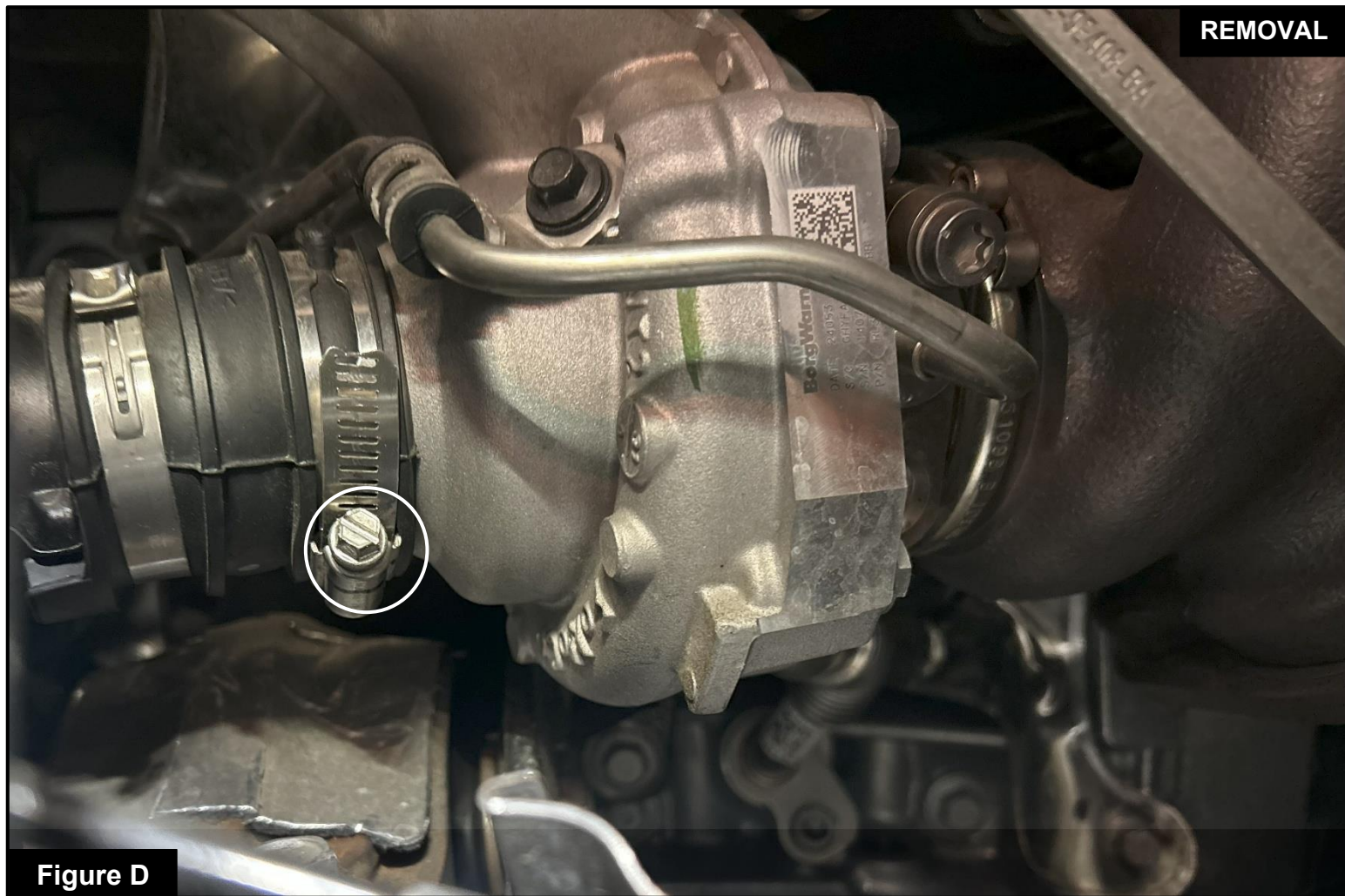


Figure D

Refer to Figure D for Step 7

Step 7: Loosen the clamp at the driver's side turbo using either a 7mm socket with a long extension, a 7mm nut driver, or a flathead screwdriver. It is easiest to access from the driver's side wheel well.

Note: It is recommended to remove the wheel well covers to access the turbos.



Figure E

Refer to Figure E for Step 8

Step 8: Disconnect the two fittings from the top of the driver's side turbo inlet pipe. Squeeze the locking tabs together to unlock the fittings, then pull the connectors straight off.



Refer to Figure F for Step 9

Step 9: Disconnect the crankcase vent located closer to the turbo on the driver's side turbo inlet pipe by pushing downward on the tube, pulling and holding the blue locking tab to the left, and then pulling the tube upward.

REMOVAL



Figure G

Refer to Figure G for Step 10

Step 10: Disconnect the the bypass valve hose from the bottom of the driver's side turbo inlet pipe by rotating the gray portion counter-clockwise and then pulling downward.


Figure H

Refer to Figure H for Step 11

Step 11: Lubricate the turbo inlet pipe grommet and mounting peg, then pull the tube out of the grommet in the direction of the arrow. Remove the factory driver's side turbo inlet pipe from the vehicle.

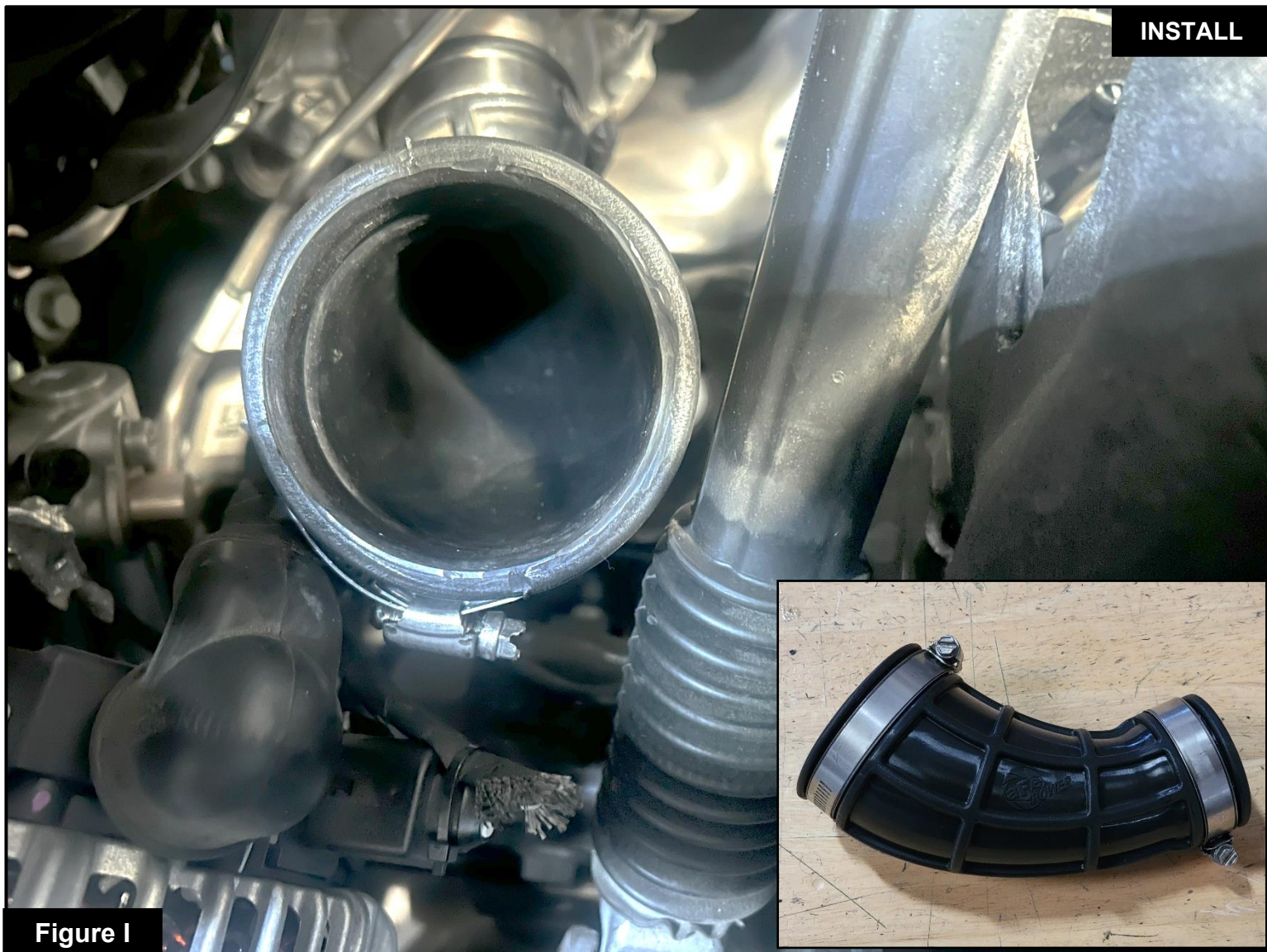


Figure I

Refer to Figure I for Steps 12-13

Step 12: Loosely install the clamps on the ends of the driver's side coupling, the coupling is labeled "DS."

Step 13: Install the coupling and clamps onto the driver's side turbo, oriented as shown. Do not tighten the clamps yet.



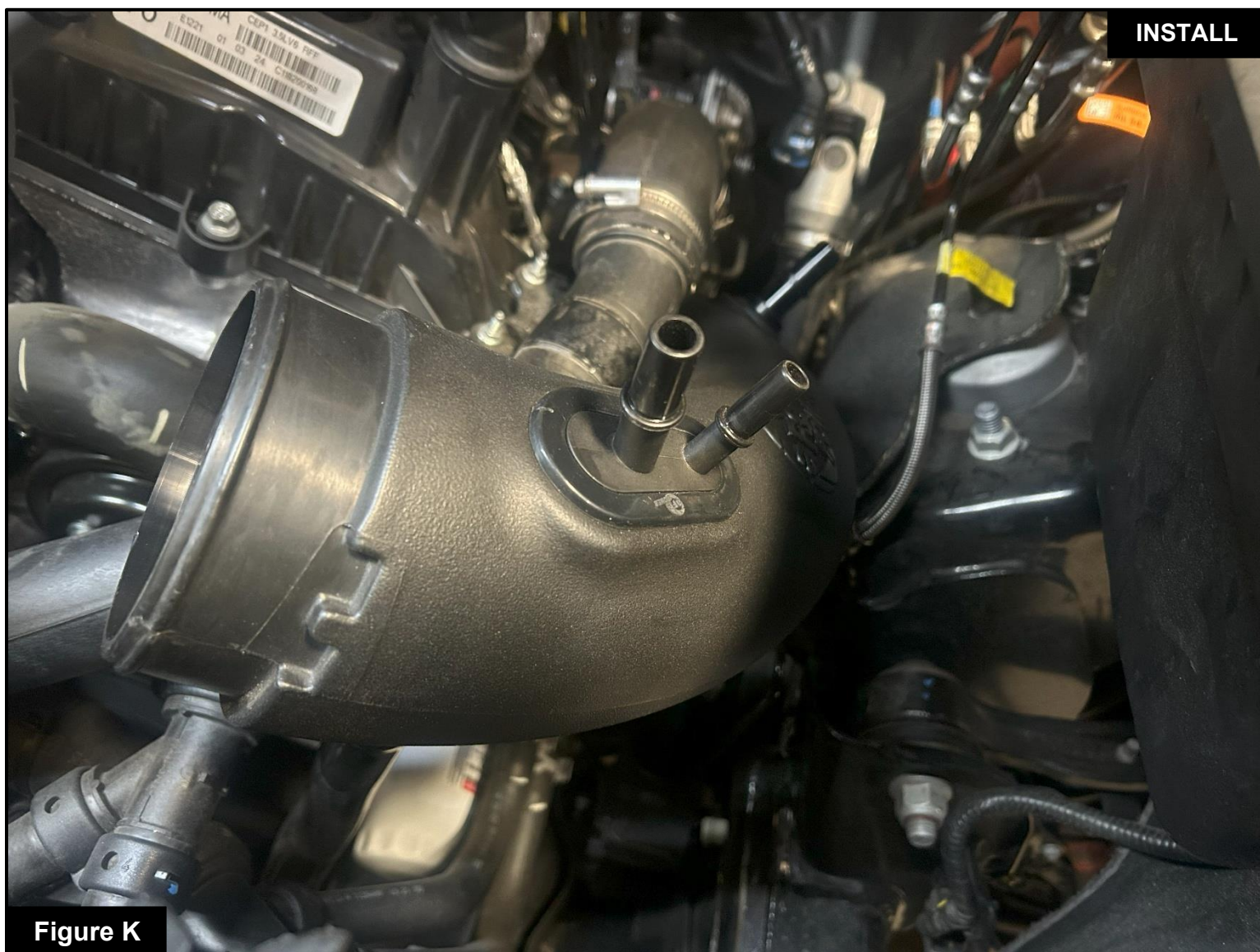
Figure J

Refer to Figure J for Steps 14-15

Step 14: Confirm that the preinstalled plastic vent fitting is installed into the grommet properly.

Step 15: Confirm that the preinstalled aluminum crankcase vent fitting is oriented correctly. The small cutout on the flange of the aluminum fitting should be in line with the arrow on the tube, as shown in the smaller figure above.

If you had an aFe POWER intake or are installing an aFe POWER intake, do NOT place the small white vent insert into the aFe POWER turbo inlet pipe.



Refer to Figure K for Step 16

Step 16: Install the aFe POWER driver's side turbo inlet pipe by first sliding the tube into the coupling and then pushing the preinstalled mounting peg into the factory grommet. Make sure the coupling is seated correctly on the turbo and the turbo inlet pipe.

Do not tighten clamps yet.



Figure L

Refer to Figure L for Step 17

Step 17: Reconnect the three (3) quick disconnect fittings on the top side of the driver's side turbo inlet pipe, including the crankcase fitting closer to the turbo.



Figure M

Refer to Figure M for Steps 18-19

Step 18: Reconnect the bypass valve vent tube to the preinstalled fitting on the bottom of the driver's side turbo inlet pipe.

Step 19: Verify all connection are correctly installed on the driver's side aFe POWER turbo inlet pipe.



Refer to Figure N for Step 20

Step 20: Loosen the clamp at the passenger's side turbo using either 7mm socket with a long extension, a 7mm nut driver, or a flathead screwdriver. It is easiest to access from the passenger side wheel well.

Note: It is recommended to remove the wheel well covers to access the turbos.

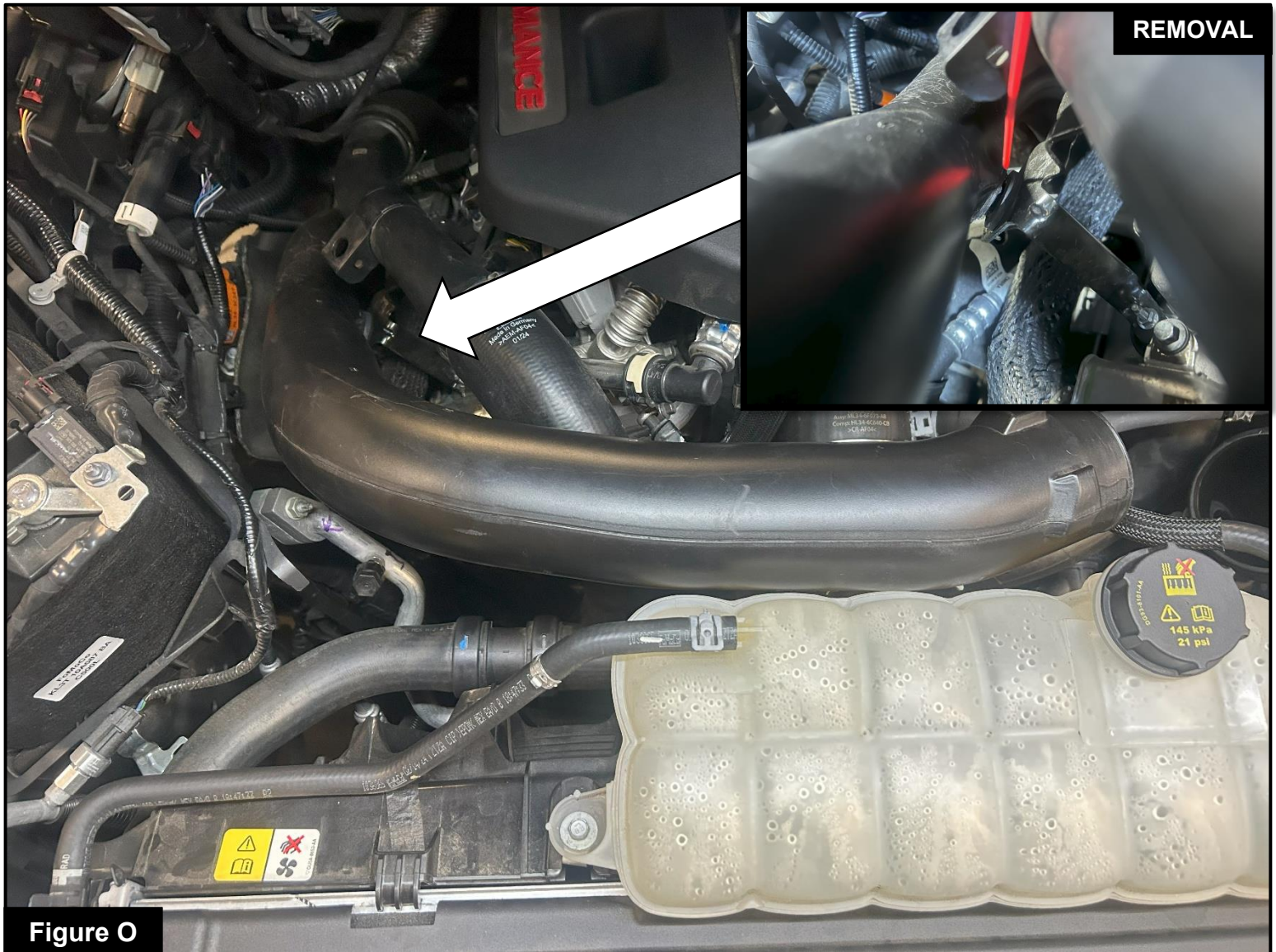


Figure O

Refer to Figure O for Steps 21

Step 21: After lubricating the grommet, pull the passenger's side turbo inlet pipe out of its mounting grommet. Remove the factory passenger's side turbo inlet pipe from the vehicle.



Figure P

Refer to Figure P for Steps 22-23

Step 22: Loosely install the clamps on the ends of the longer passenger's side coupling, the coupling is labeled "PS."

Step 23: Install the coupling and clamps onto the turbo, oriented as shown. Do not tighten the clamps yet.



Figure Q

Refer to Figure Q for Step 24

Step 24: Install the aFe POWER passenger's side turbo inlet pipe by first sliding the tube into the coupling, then pushing the preinstalled mounting peg into the grommet. Make sure the coupling is seated correctly on the turbo and the turbo inlet pipe.

Do not tighten clamps yet.



Figure R

Refer to Figure R for Steps 25-27

Step 25: Reinstall the air intake system using Steps 1 through 6 as a reference.

Step 26: Make any final adjustments needed to align the driver side coupling, then tighten both clamps.

Repeat this step for the passenger side coupling.

Step 27: Verify all clamps and connections are secured.

Your installation is now complete. Thank you for choosing aFe POWER!

NOTE: Retighten all connections after approximately 100-200 miles.



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advanced FLOW engineering, Inc.

Corona, CA 92879

<https://afepower.com/contact>