

advanced FLOW engineering Cold Air Intake System

Instruction Manual P/N: 50-70136D / 50-70136R

Make: Ford

Model: Ranger

Year: 2024-2025

Engine: V6-2.7L (tt)



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- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 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.	Description	Part Number
A1	1	Air Filter (Pro 5R)	20-91206R
A2	1	Air Filter (Pro DRY S)	20-91206D
B	1	Intake Tube, Passenger	05-5070081B1
C	1	Intake Tube, Driver	05-5070081B2
D	1	Housing	05-5070122B2
E	1	Clamp, 032 (1-9/16" -2-1/2")	03-50016
F	1	Clamp, 044 (2-5/16" - 3-1/4")	03-50019
G	2	Clamp, 048 (2-9/16" - 3-1/2 ")	03-50007
H	1	Coupling, Silicone Bellow Rdr (3x3-1/8)ID x 3"L	05-01400
J	1	Coupling, Silicone Straight: 2-3/8"x2"ID x 2-1/4"L	05-01701
K	1	Fitting, Recirculating: 50-70081	05-01731
M	1	Grommet, Rubber: 2872-26012	03-50139
N	1	Fitting, Air Temp Sensor	05-01454
P	1	Grommet, Rubber	03-50167
Q	1	Screw, Flange Hex Head: M6 x 1.00 x 1.25mm	03-50774
R	1	Isolation Mount, M6 Stud and Insert x 1/2"H	03-50664

Installation will require the following tools:

Panel clip remover, Torx 30 screwdriver, 7mm & 8mm nut driver, 8mm & 10mm socket and driver, tongue pliers

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

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.

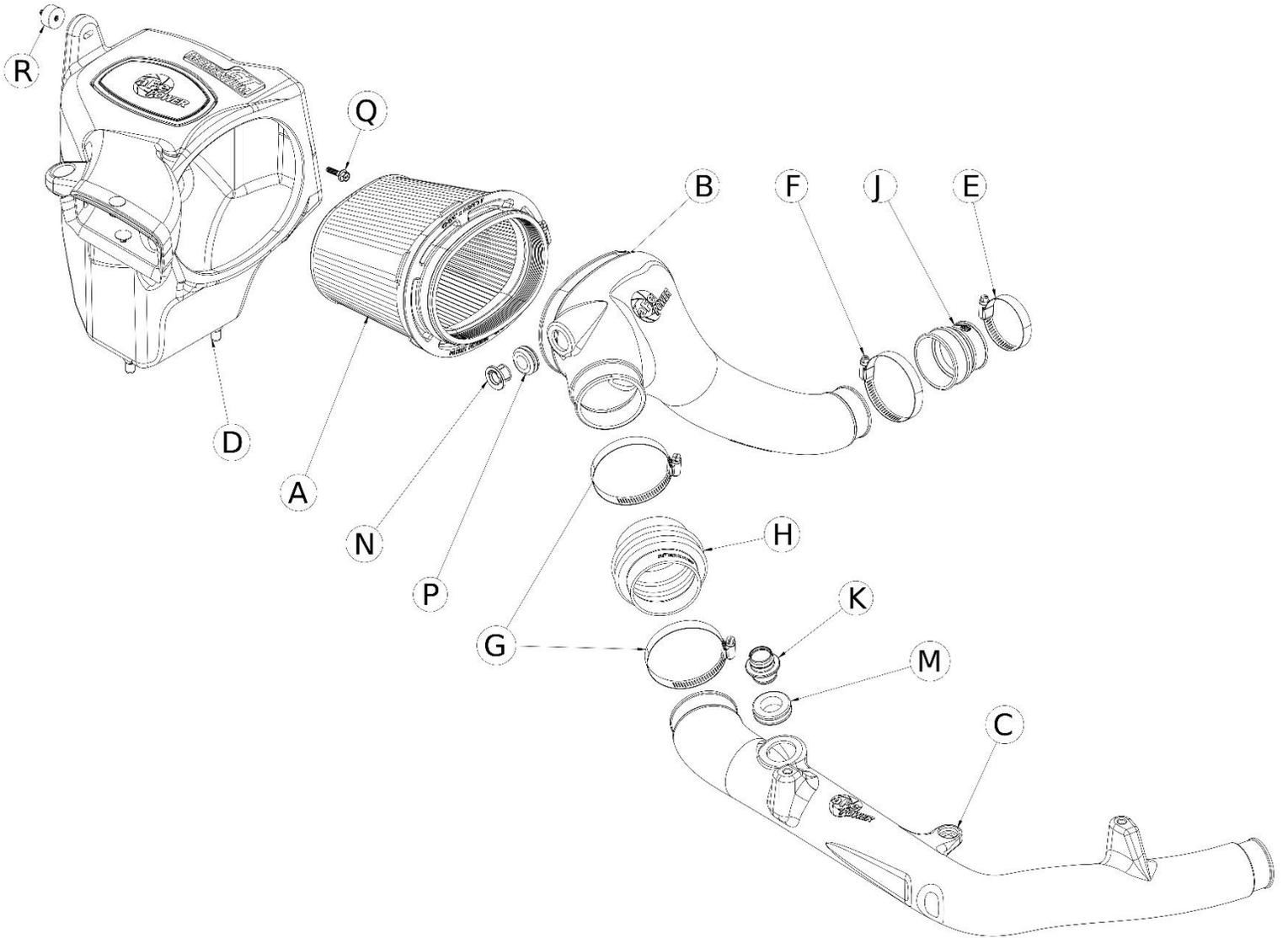




Figure A

Refer to Figure A for Step 1

Step 1: Using a Torx 30 screwdriver, remove the screw ① holding the scoop duct. Remove the scoop duct and set it aside with the screw.

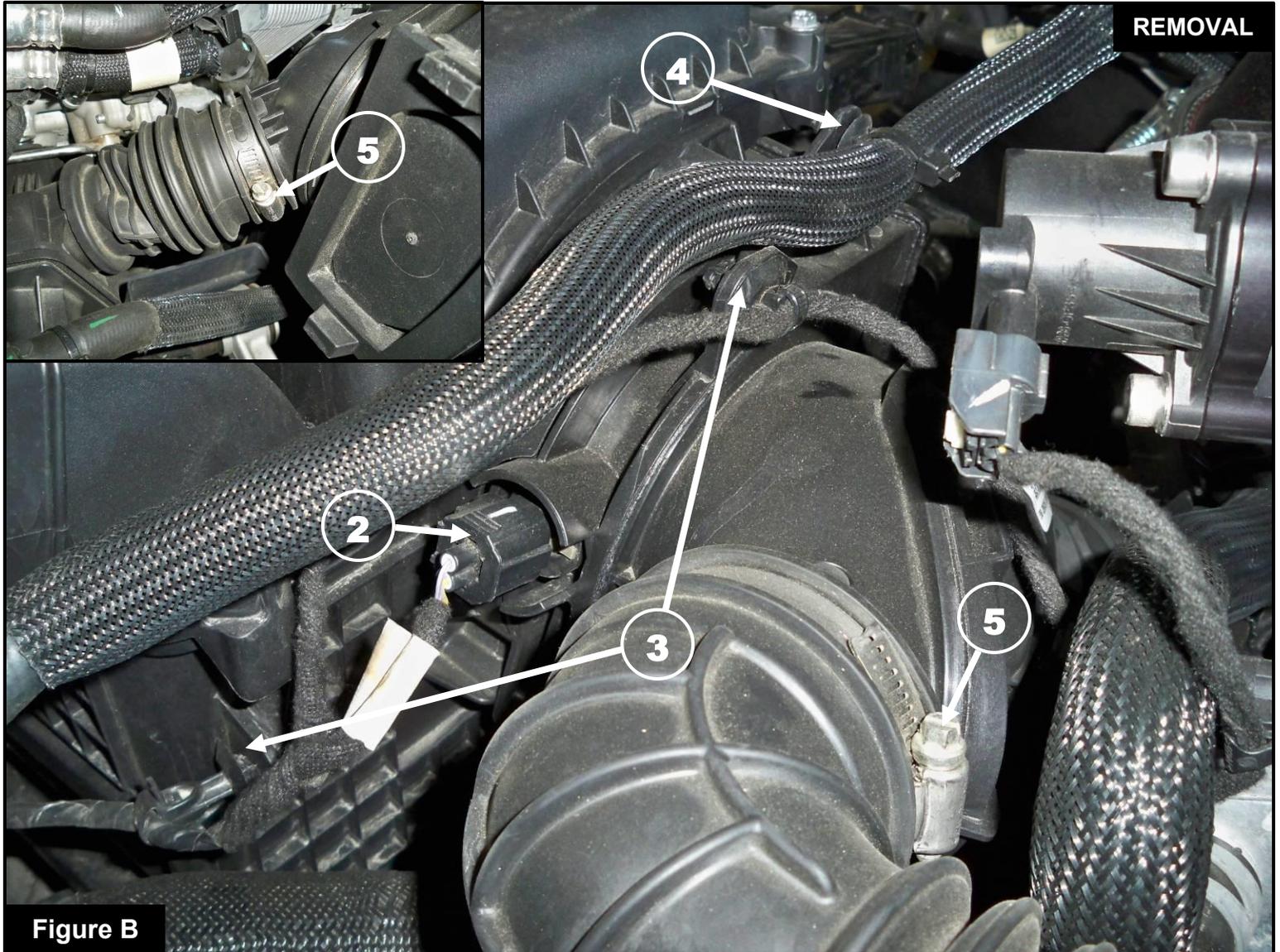


Figure B

Refer to Figure B for Steps 2-5

Step 2: Disconnect the IAT sensor electrical connector (2).

Step 3: Release the retainer clips (3) and position aside the wiring harness.

Step 4: Release the retainer clip (4) and position aside the coolant reservoir hose.

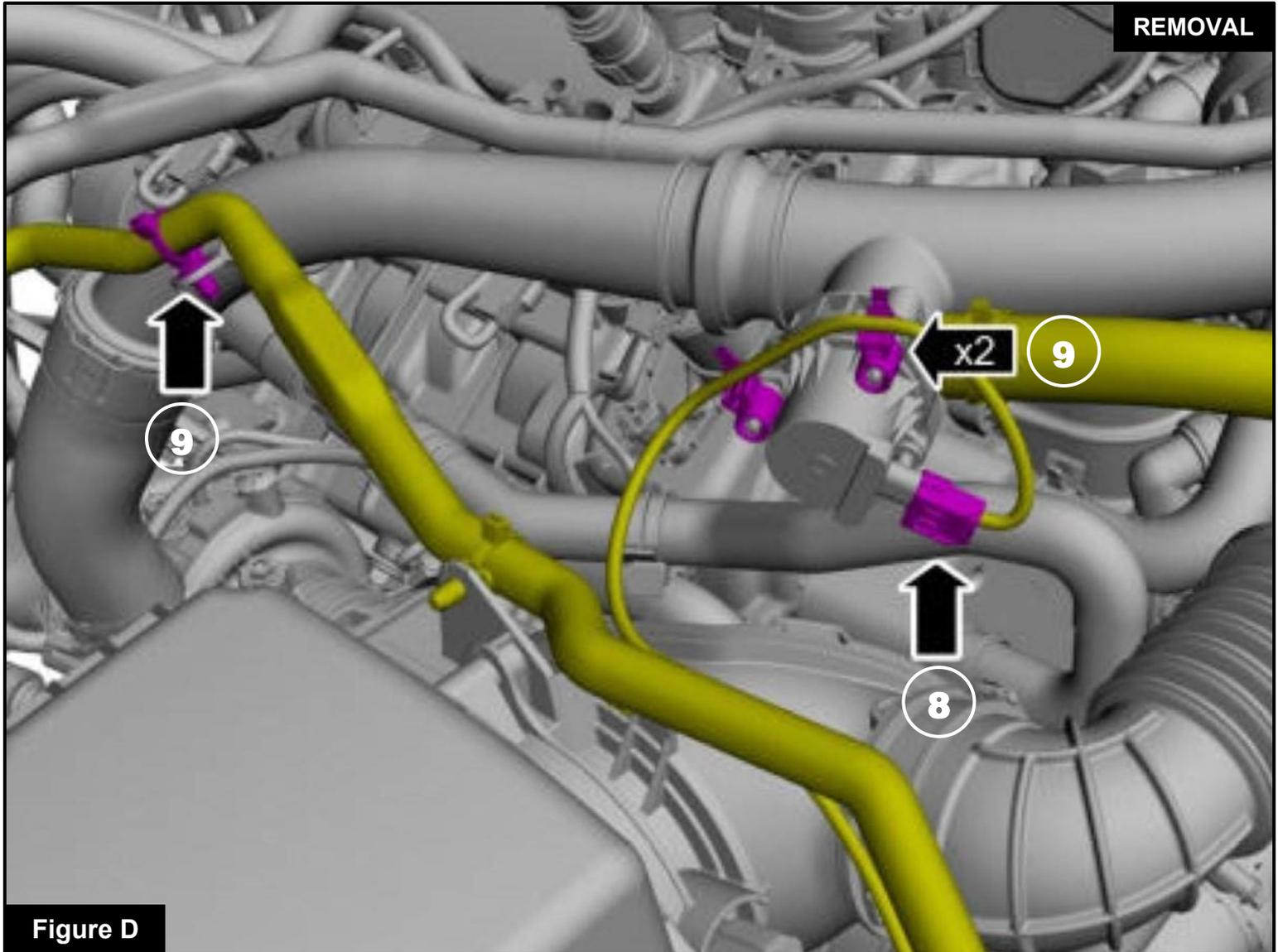
Step 5: Using a 7mm nut driver, loosen the clamps (5) and detach intake tube from the factory rubber hoses.



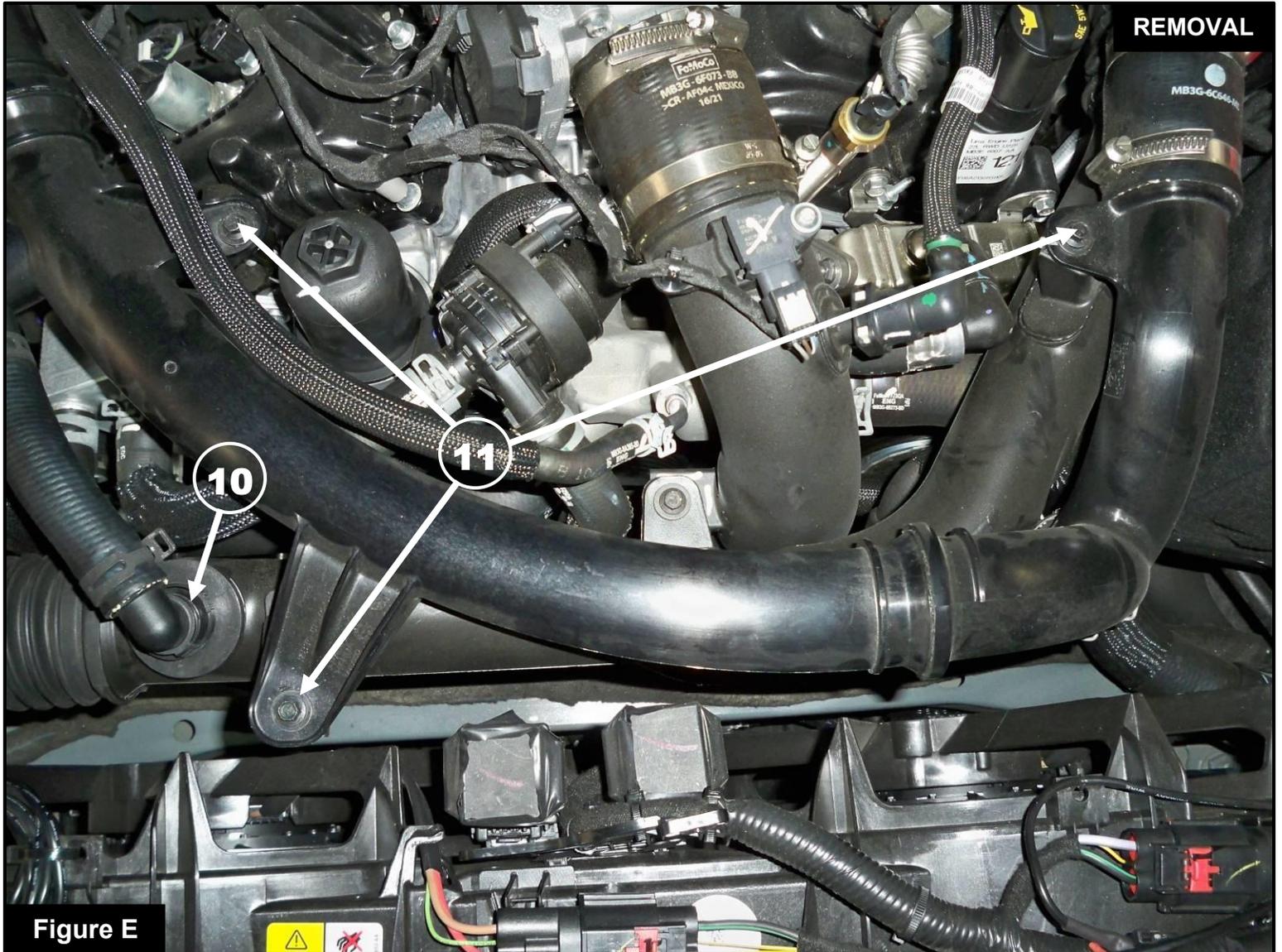
Refer to Figure C for Steps 6-7

Step 6: Using an 8mm socket and driver, remove the screw ⑥ holding the factory airbox.

Step 7: Detach and remove the factory airbox from the isolators ⑦. If the isolators are pulled out and are stuck in the lower half of the factory airbox, remove them and insert them back on the mounting bracket.

**Figure D****Refer to Figure D for Step 8**

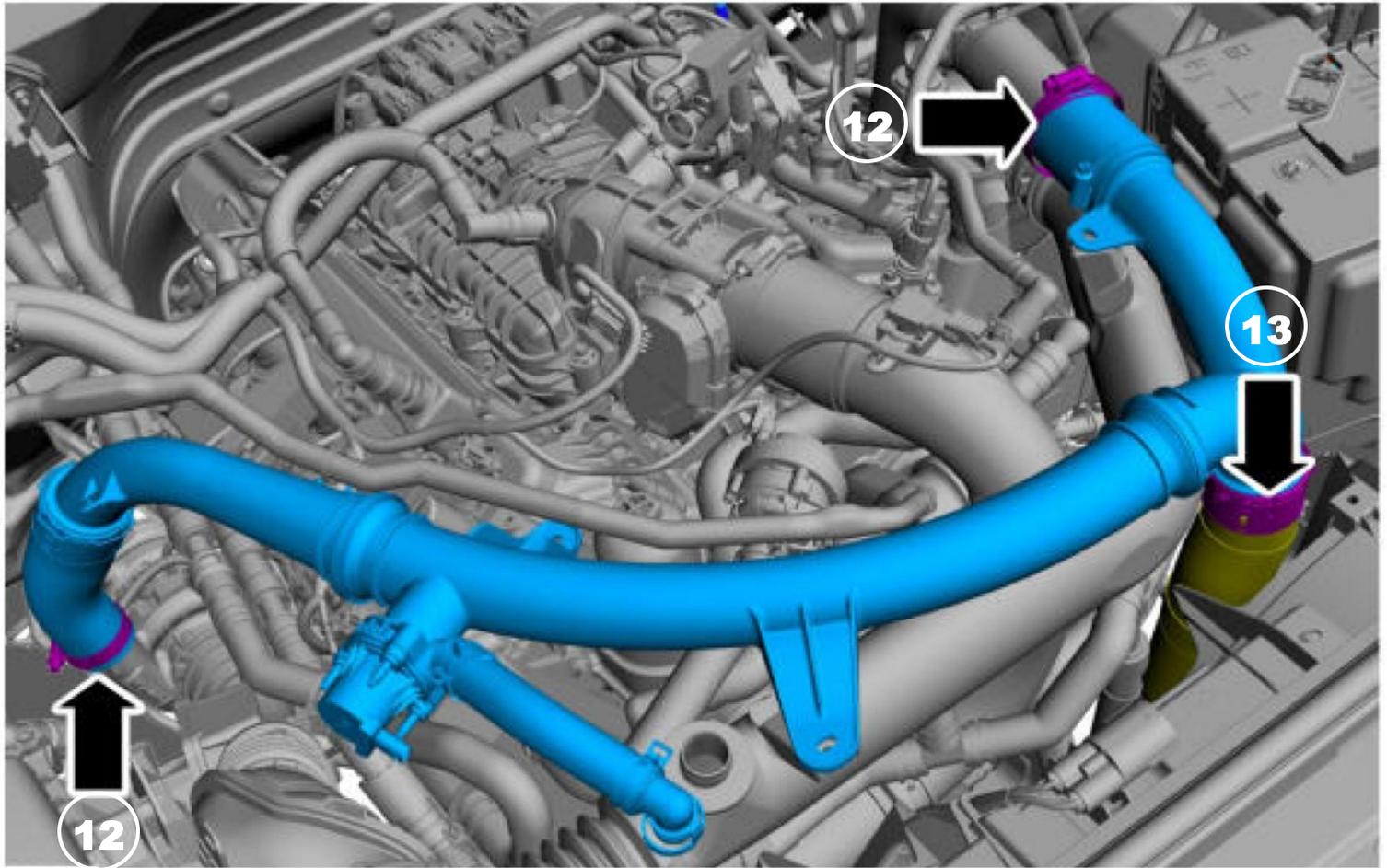
Step 8: Disconnect the bypass valve electrical connector (8) and release the retainer clips (9).



Refer to Figure E for Steps 9-10

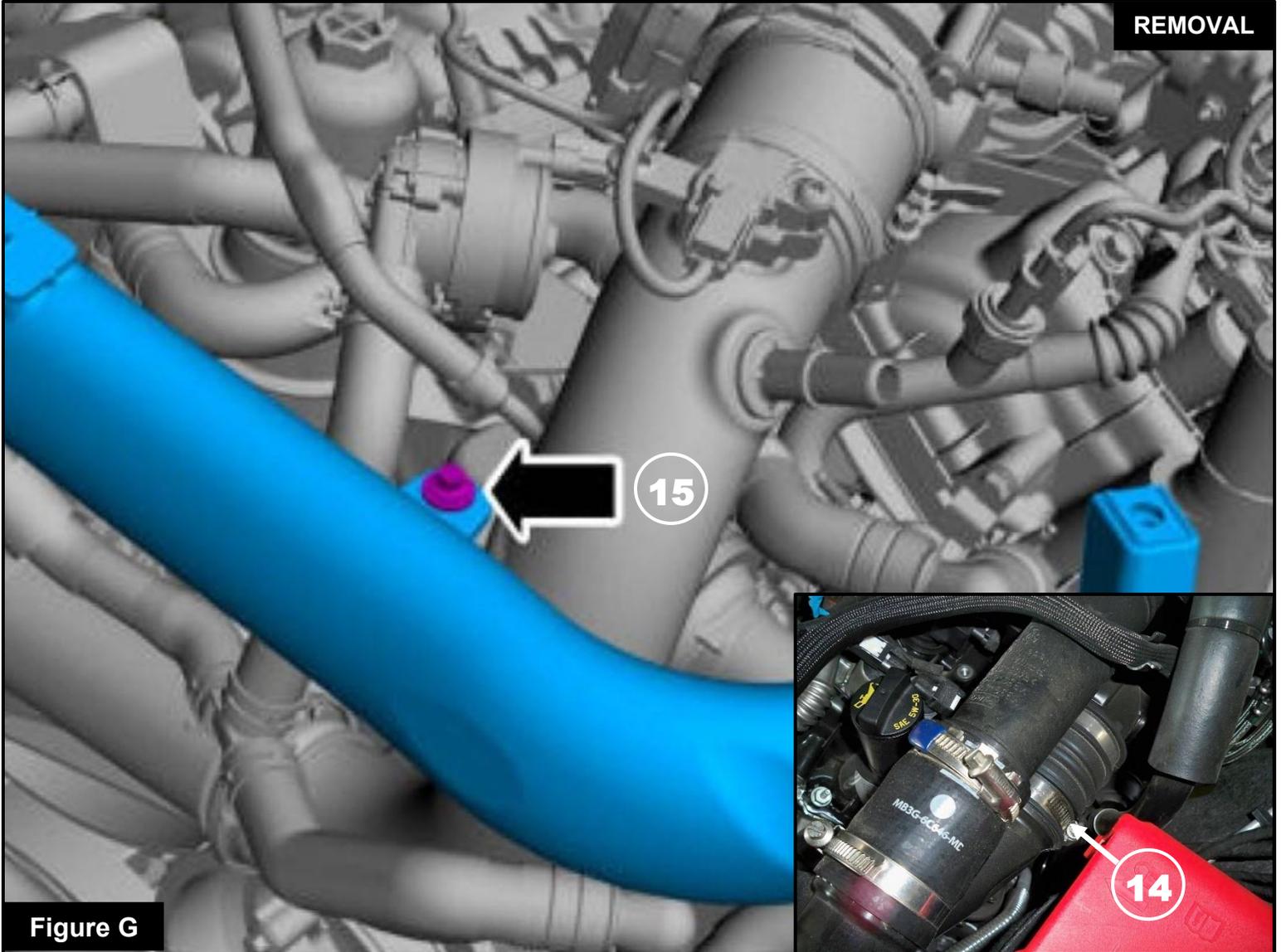
Step 9: Disconnect the bypass hose quick release connector (10).

Step 10: Using an 8mm nut driver, remove the three screws (11) holding the CAC inlet pipe.

**Figure F****Refer to Figure F for Steps 11-12**

Step 11: Using a 7mm nut driver, loosen the clamps (12).

Step 12: Release the quick connect clip (13) and remove the CAC inlet pipe.

**Figure G****Refer to Figure G for Steps 13-14**

Step 13: Using a 7mm nut driver, loosen the factory intake tube clamp (14).

Step 14: Using an 8mm nut driver, remove the screw (15) and remove the factory intake tube.

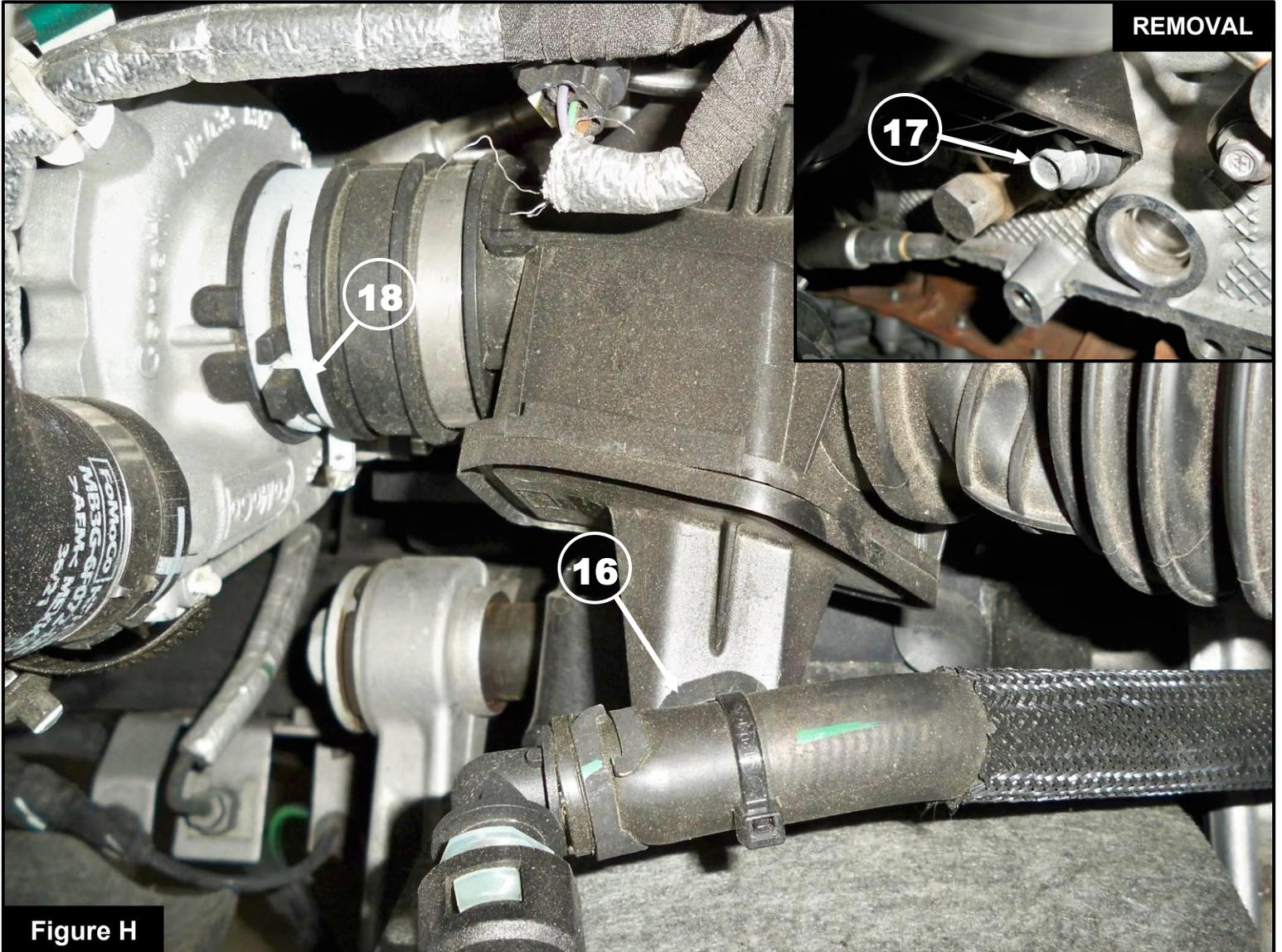


Figure H

Refer to Figure H for Steps 15-17

Step 15: Detach the coolant hose retainer (16).

Step 16: Using a 10mm socket and driver, remove the screw (17) holding the factory turbo intake tube.

Step 17: Using tongue pliers, loosen the clamp (18) and remove the factory turbo intake tube.



Refer to Figure J for Step 22

Step 22: Slide the aFe POWER filter and clamp into the aFe POWER housing and push them in until it locks into place. Do not tighten the clamp at this time.

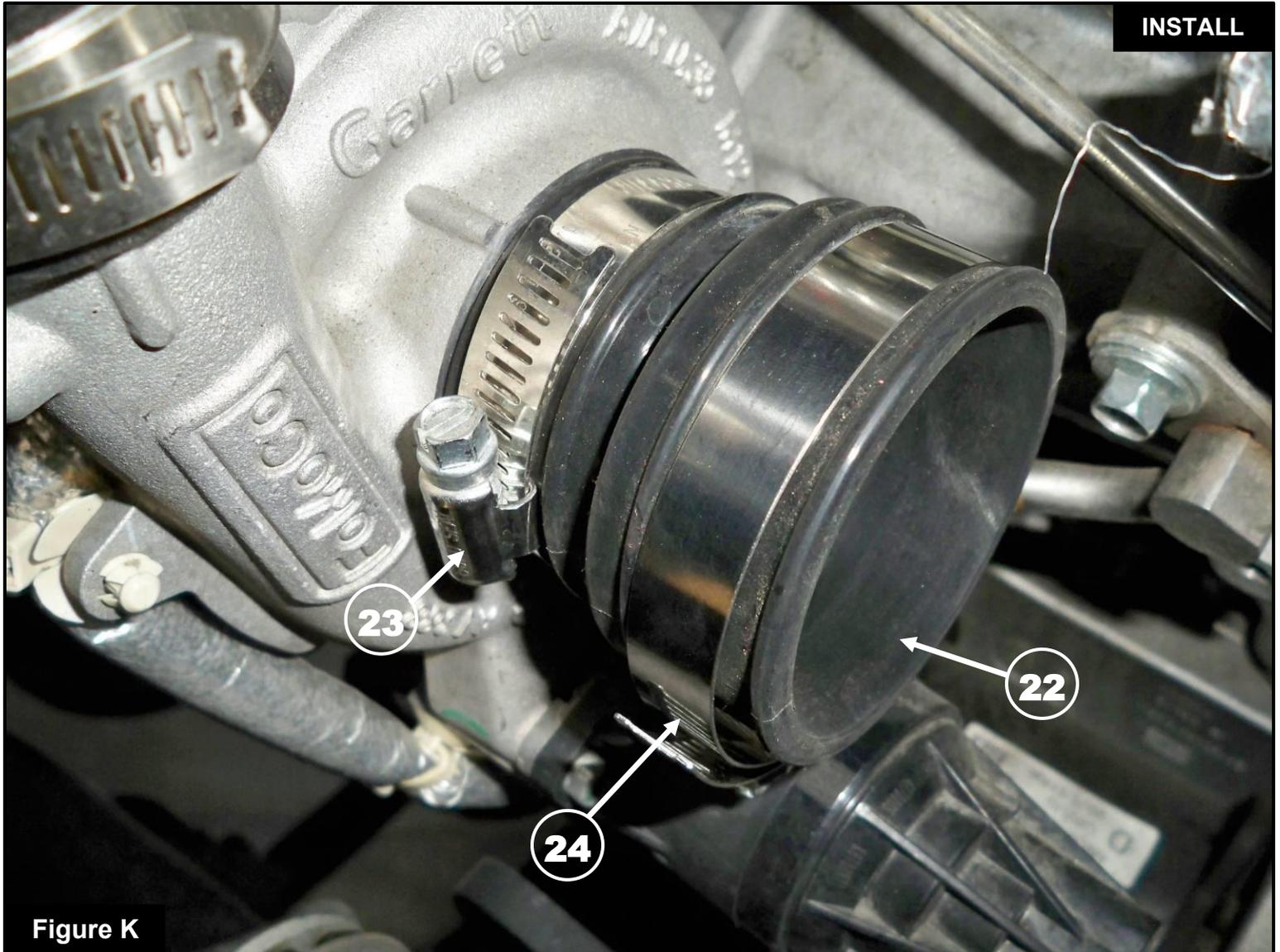


Figure K

Refer to Figure K for Steps 23-24

Step 23: Install the supplied coupler (05-01701) ② onto the turbo with the supplied #32 clamp ③ and tighten the clamp using an 8mm nut driver.

Step 24: Place the supplied #44 clamp ④ onto the other end of the coupler and slightly snug so it will not fall off.

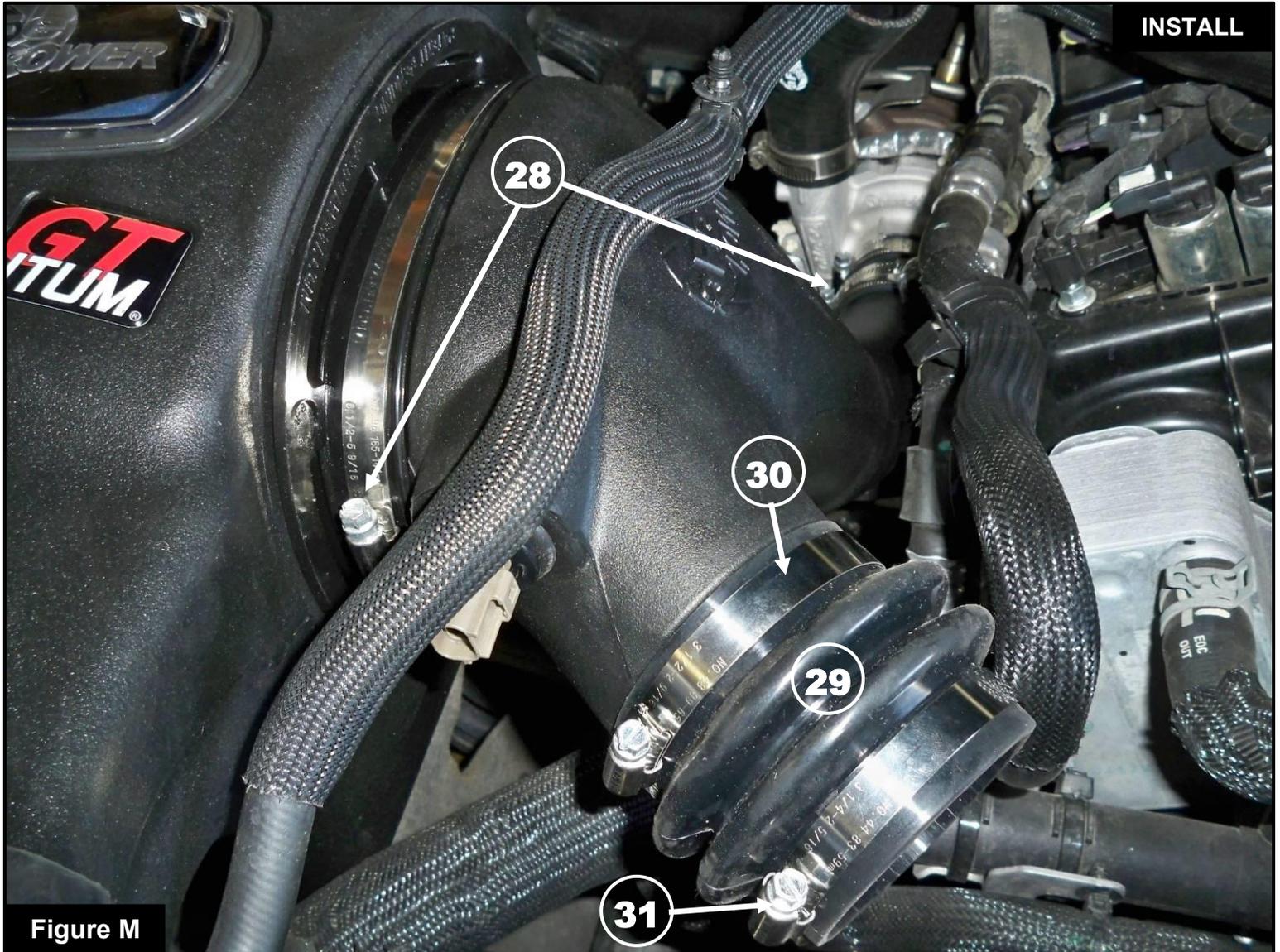
**Figure L****Refer to Figure L for Steps 25-27**

Step 25: Remove the IAT sensor (25) from the factory airbox by rotating ¼ turn counterclockwise and gently pulling out.

Step 26: Install the provided grommet and temp sensor fitting (26) into the aFe POWER passenger side intake tube.

Note: Lubricant can be used to facilitate the installation of the fitting into the grommet.

Step 27: Install the IAT sensor into the temp sensor fitting by rotating ¼ turn clockwise until it locks into place. Being careful not to damage the AIT sensor, rotate the temp sensor fitting to have mounting tab (27) pointing in the direction of the tube opening.

**Figure M****Refer to Figure M for Steps 28-30**

Step 28: Install the aFe POWER passenger side intake tube into the coupler first and then into the air filter.

Align the tube correctly and tighten the clamps (28) using an 8mm nut driver.

Step 29: Install the supplied coupler (05-01400) (29) with the larger diameter side onto aFe POWER passenger side intake tube with one of the supplied #48 clamp (30) and tighten the clamp using an 8mm nut driver.

Step 30: Place the other supplied #48 clamp (31) onto the smaller diameter end of the coupler and slightly snug so it will not fall off.



Figure N

Refer to Figure N for Steps 31-33

- Step 31: Install the provided large grommet and recirculating fitting(32) into the aFe POWER driver side intake tube.
- Step 32: Install the aFe POWER driver side intake tube into the (05-01400) coupler first and then into the factory turbo inlet tube coupler. Align the tube correctly and install the screw(33) removed on Step 14 using an 8mm nut driver.
- Step 33: Tighten the supplied clamp(34) using an 8mm nut driver & the original clamp(35) using a 7mm nut driver.

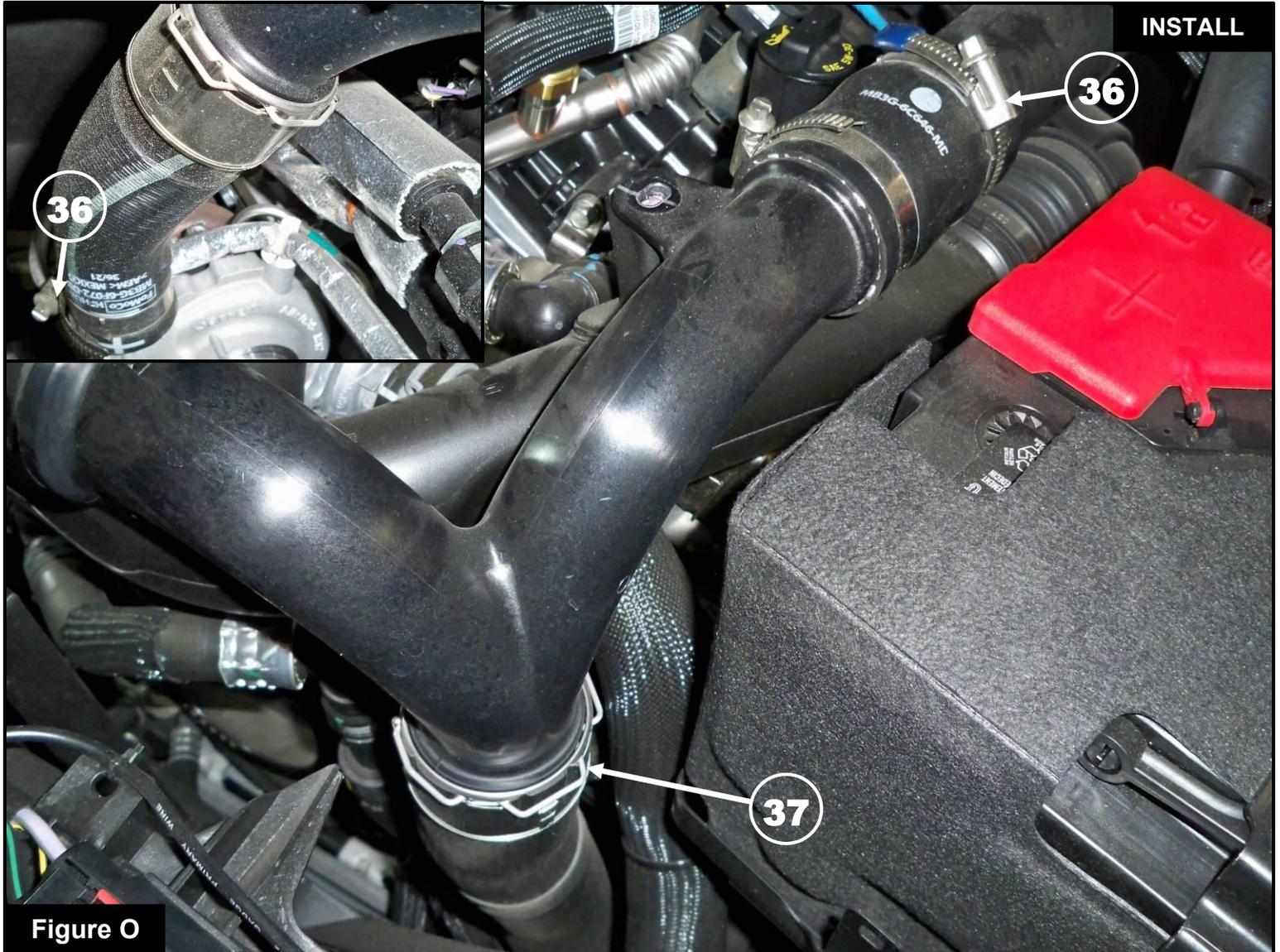


Figure O

Refer to Figure O for Steps 34-35

Step 34: Install the CAC inlet pipe, using a 7mm nut driver tighten the clamps (36) and connect the quick connect clip (37).

Step 35: Install the three screws removed in Step 10 to secure the CAC inlet pipe. Tighten them using an 8mm nut driver.

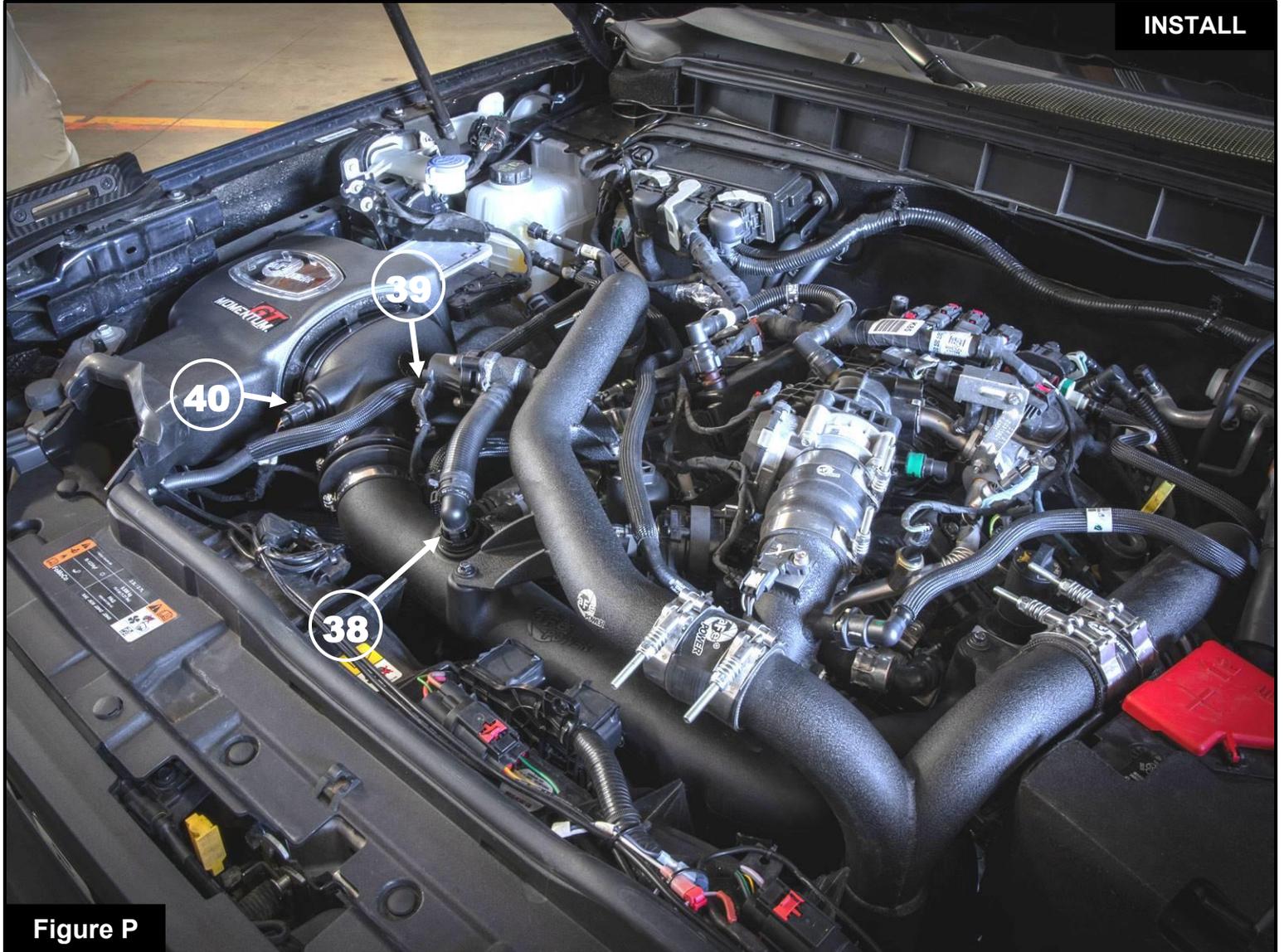


Figure P

Refer to Figure P for Steps 33-39

Step 36: Connect the bypass hose quick release connector (38).

Step 37: Connect the bypass valve electrical connector (39) and the retainer clips.

Step 38: Connect the IAT sensor electrical connector (40).

Step 39: Check all the components are tight and secure. Your installation is now complete. Thank you for choosing aFe POWER!

NOTE: Check all bolts, clamps, and connectors after 100-200 miles.



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