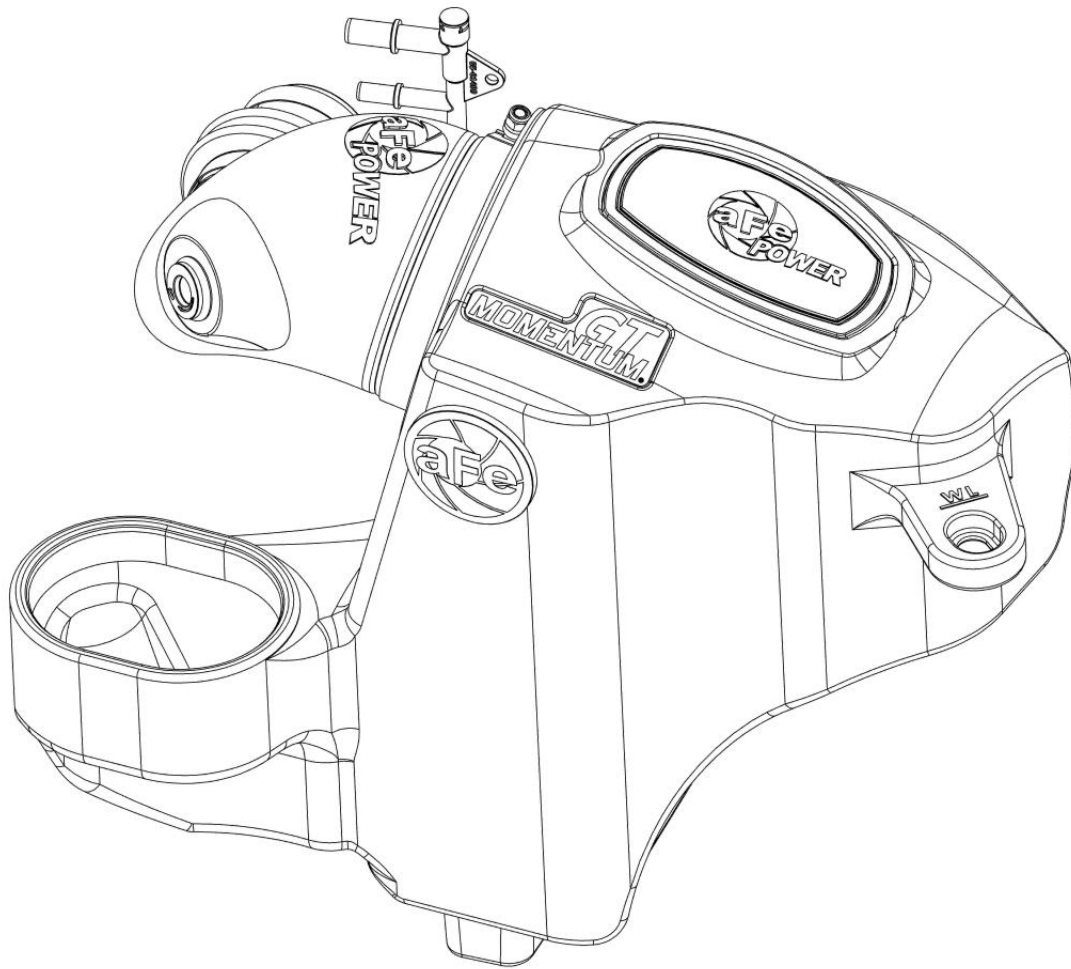
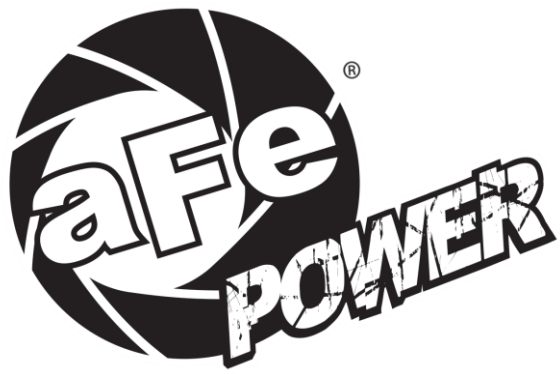




advanced FLOW engineering

Cold Air Intake System

Instruction Manual P/N: 50-70140D / 50-70140R

Make: Jeep

Model: Grand Cherokee 4xe

Year: 2022-2025

Engine: L4-2.0L(t)



- 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.	Description	Part Number
A	1	Air Filter (Pro DRY S) for 50-70140D	21-91141
A	1	Air Filter (Pro 5R) for 50-70140R	24-91141
B	1	Air Intake Tube	05-5070140B1
C	1	Housing with clear sight window	05-5070107B2
D	1	Coupler, Silicone Bellow: (2.25"x2.50")ID x 3.25"L	05-01817
E	1	Clamp, 032 (1-9/16" – 2-1/2")	03-50016
F	1	Fitting, CVV Vacuum	05-01499
G	1	Coupler, Silicone Elbow: 10mm ID x 90Deg	05-01821
H	1	Fitting, 11mm Barbed (4 Barb) to 1/8" NPT	03-50615
J	1	Grommet, Rubber	03-50167
K	1	Fitting, Air Temperature Sensor	05-01454
M	1	Plug, Sil: 2.25" Dia x 0.16"THK (aFePOWER)	05-01482
N	1	Clamp, 044 (2-5/16"- 2-1/2")	03-50019

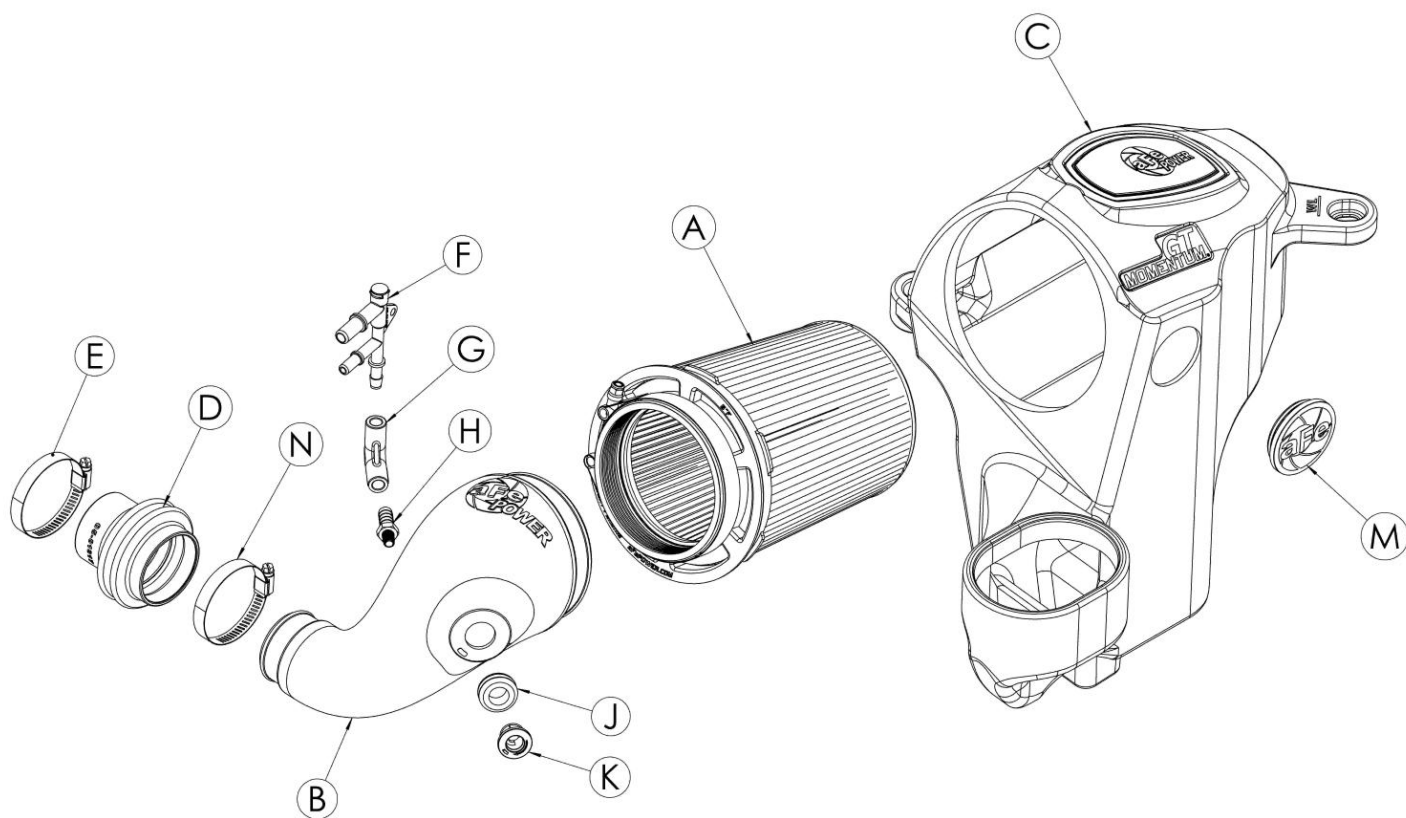
Installation will require the following tools:

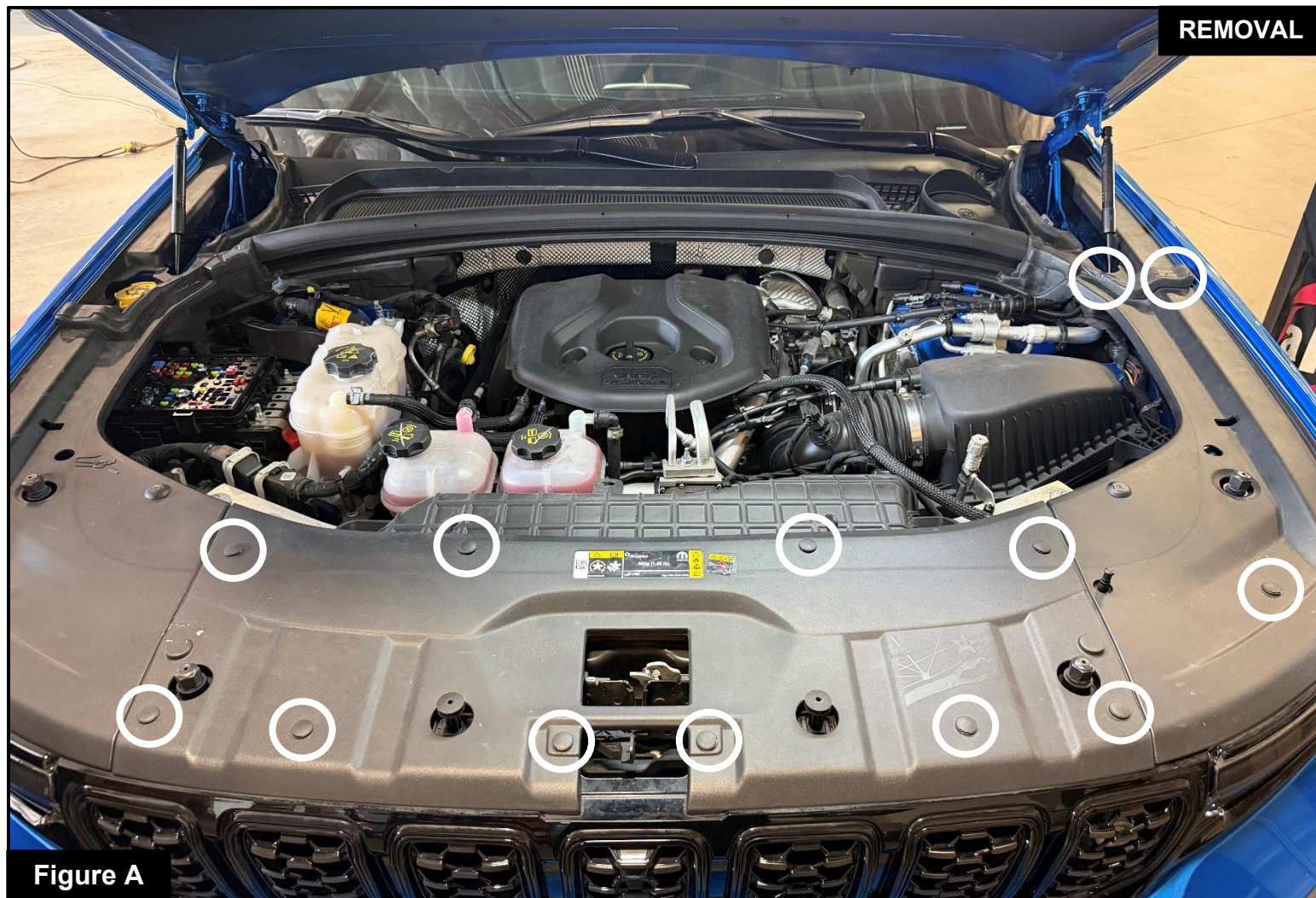
10mm, 8mm, and 11mm sockets, socket wrench, socket extender, adjustable wrench, and panel popper.

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.





Refer to Figure A for Steps 1-2

Step 1: Using pry tool carefully remove the plastic clips holding the front trim.

Step 2: Carefully remove the trim from the vehicle. Keep all parts as they will be re-installed.



Figure B

Refer to Figure B for Step 3

Step 3: Using the pry tool remove the two clips connected to the intake scoop and intake tube.

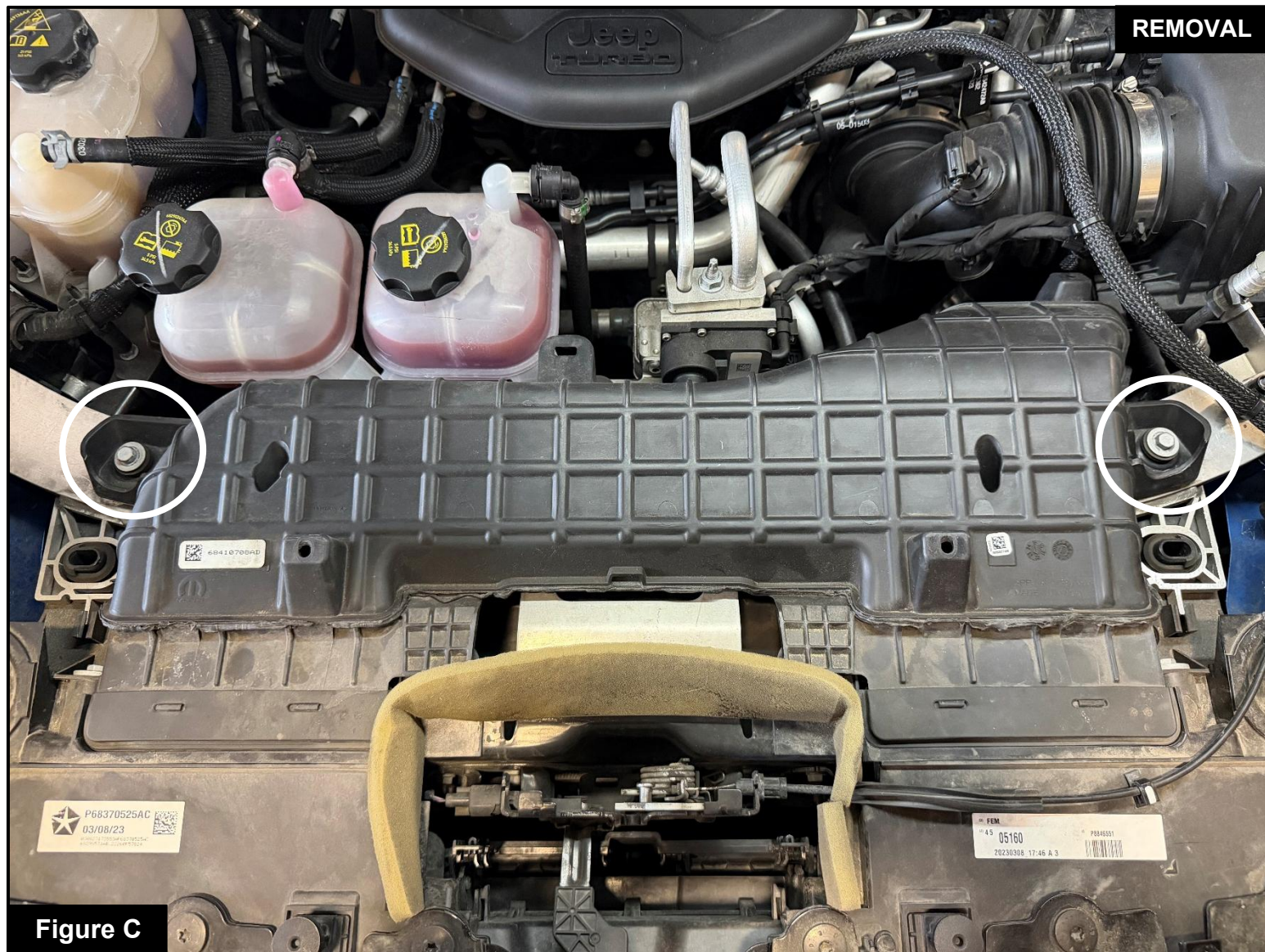


Figure C

Refer to Figure C for Steps 4-5

Step 4: Using a 10mm socket remove the two (x2) bolts holding the factory intake scoop to the front bar.

Step 5: Lift the factory scoop straight up to remove it from the vehicle. All parts will be re-installed.

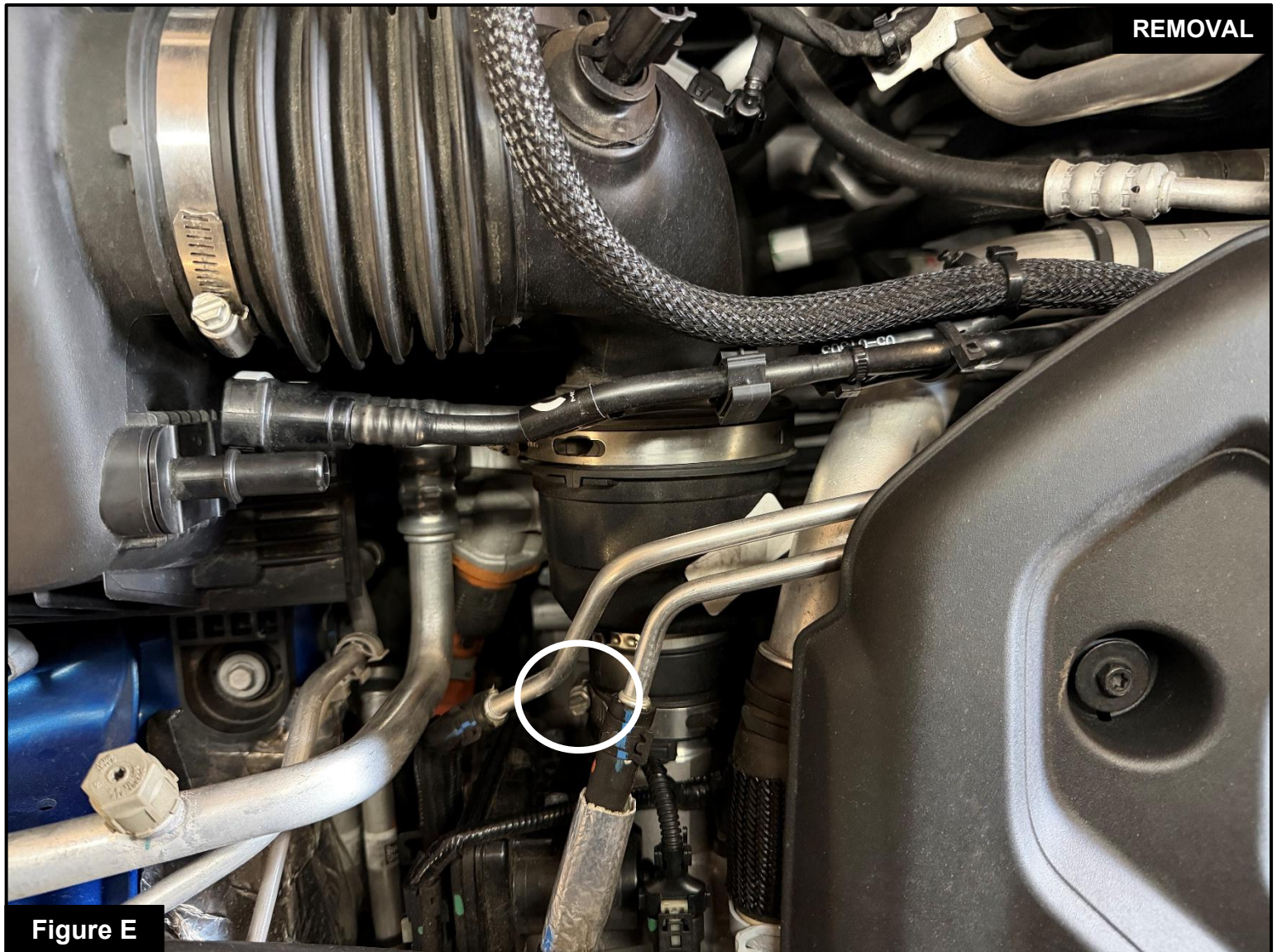


Figure D

Refer to Figure D for Steps 6-7

Step 6: Disconnect the two (x2) crankcase hoses (CCV) connected to the factory intake box.

Step 7: Disconnect the temperature sensor harness from the factory tube.



Refer to Figure E for Step 8

Step 8: Using an 8mm socket loosen clamp on turbo.

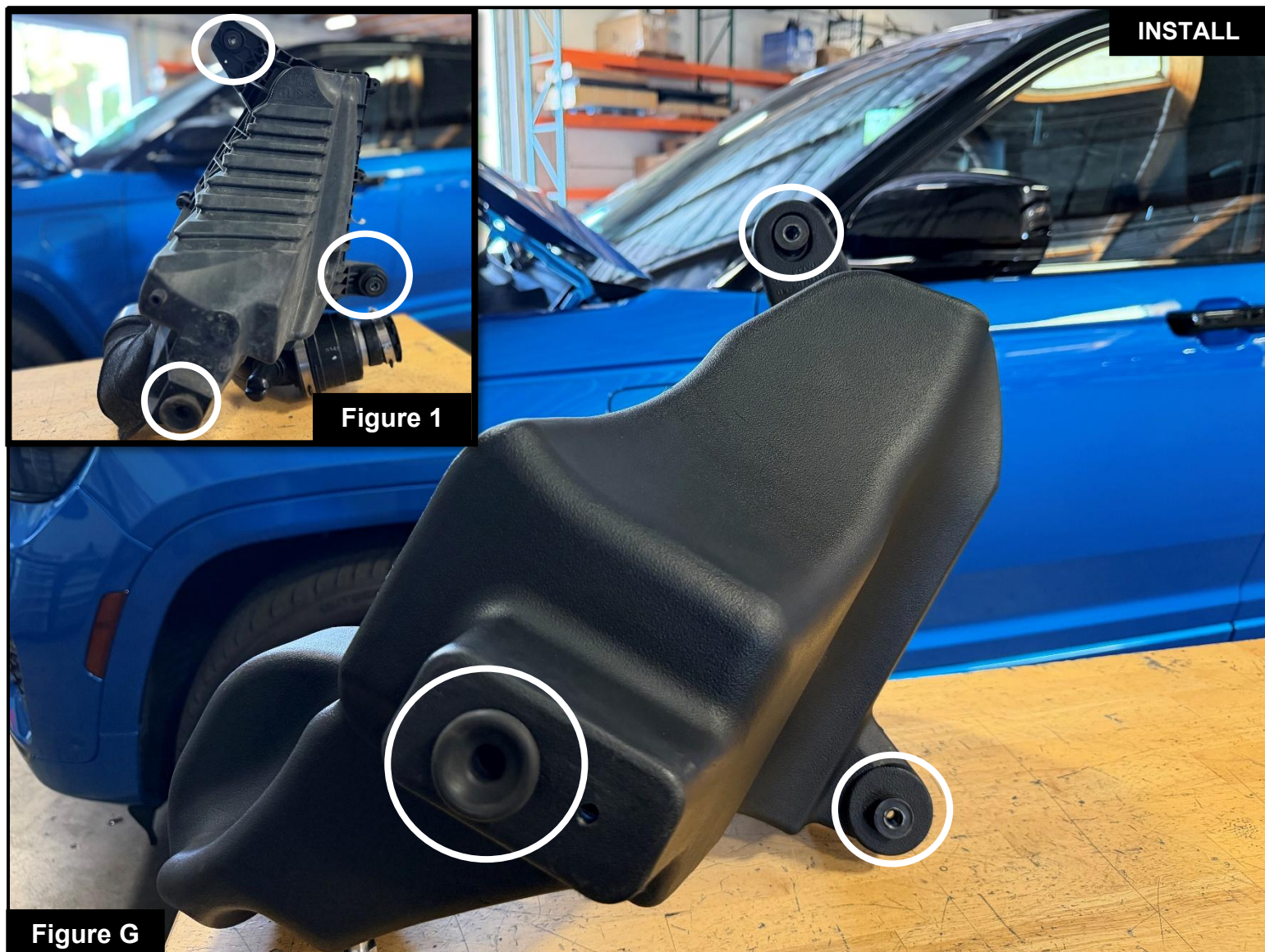


Figure F

Refer to Figure F for Steps 9-10

Step 9: Using a 10mm socket remove the two (x2) bolts on the factory housing. Keep bolts for later.

Step 10: Lift the housing straight up to remove. Please note that there is a peg that is holding the housing at the bottom. When removing the housing make sure to look out for the hood latch wire as it may snag when removing the housing.



Refer to Figure G for Step 11

Step 11: Transfer the three (x3) grommets from the factory intake to the new aFe POWER intake housing.

Note that the largest grommet is at the bottom. See **Figure 1** and **Figure G**.



Figure H

Refer to Figure H for Steps 12-13

Step 12: Install the new aFe POWER intake housing into the vehicle by lining up all three (x3) factory mounting locations.

Step 13: Once housing is lined up, use the two (x2) bolts removed in **STEP 9** to secure it.



Refer to Figure J for Step 14

Step 14: Install the filter into the aFe POWER intake housing. Firmly press the air filter into the large opening side making sure the air filter tabs lock into place.


Figure 2

Figure K

Refer to Figure K for Steps 15-18

Step 15: Carefully remove the temperature sensor from the factory intake tube. See **Figure 2**.

Step 16: Install the supplied rubber grommet into the hole on the new aFe POWER intake tube.

Step 17: Next, install the temperature fitting into the grommet and line it up with the mark on the intake tube.

Refer to **Figure K** to see correct orrientaion

Step 18: Lastly, install the temperature sensor removed in **STEP 15** by pushing it into the fitting and turning it clockwise a quarter-turn to ensure it won't slide out.


Figure 3

Figure M

Refer to Figure M for Steps 19-21

Step 19: Using an adjustable wrench install the provided NPT fitting into the other side of the tube. Tighten till snug and be careful not to overtighten. It is okay if there are some threads showing. See **Figure 3**.

Step 20: Next install the provided small elbow coupling to the NPT fitting.

Step 21: Lastly, install the CCV fitting to the other end of the coupling and orient it as shown.

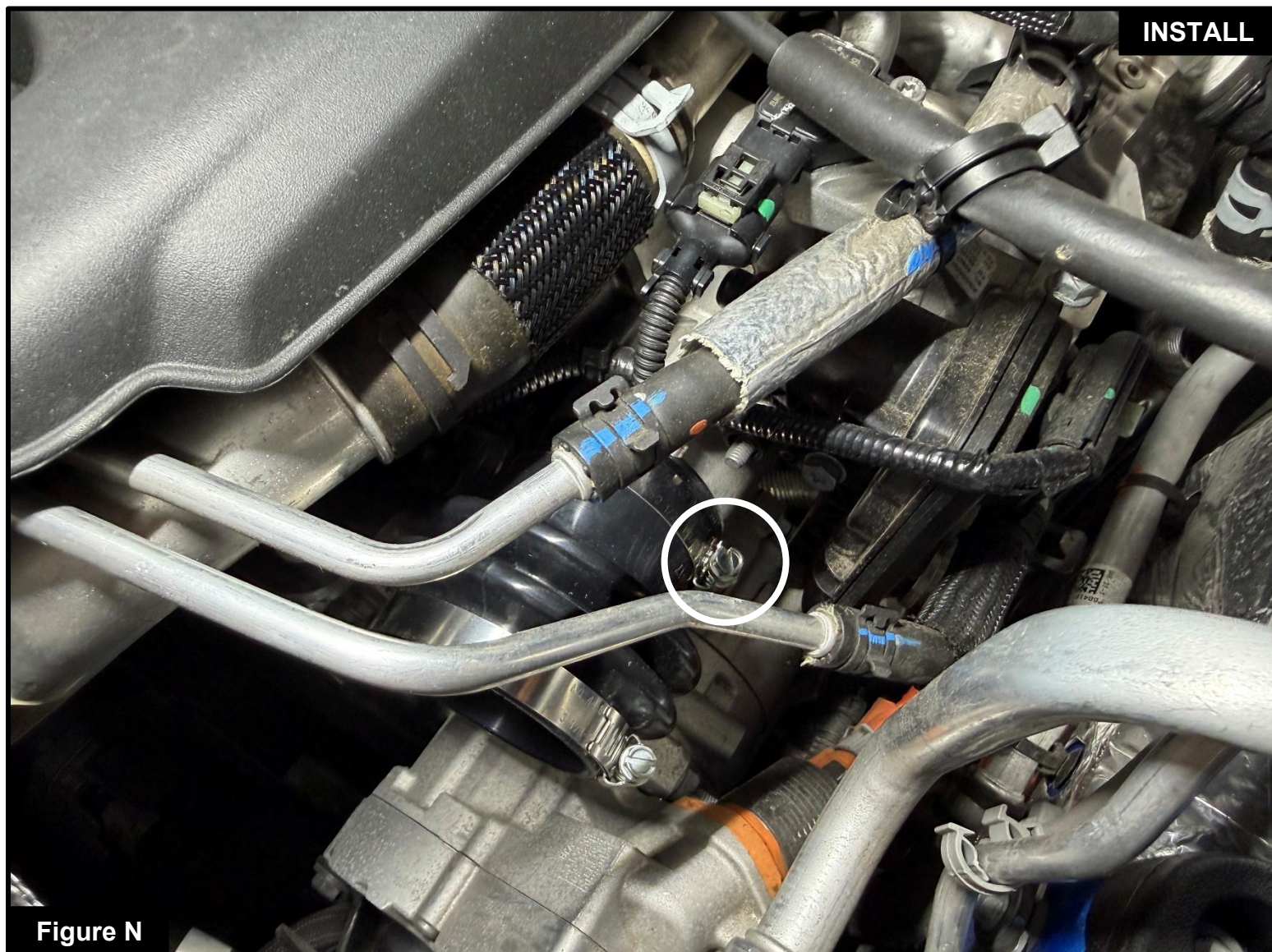
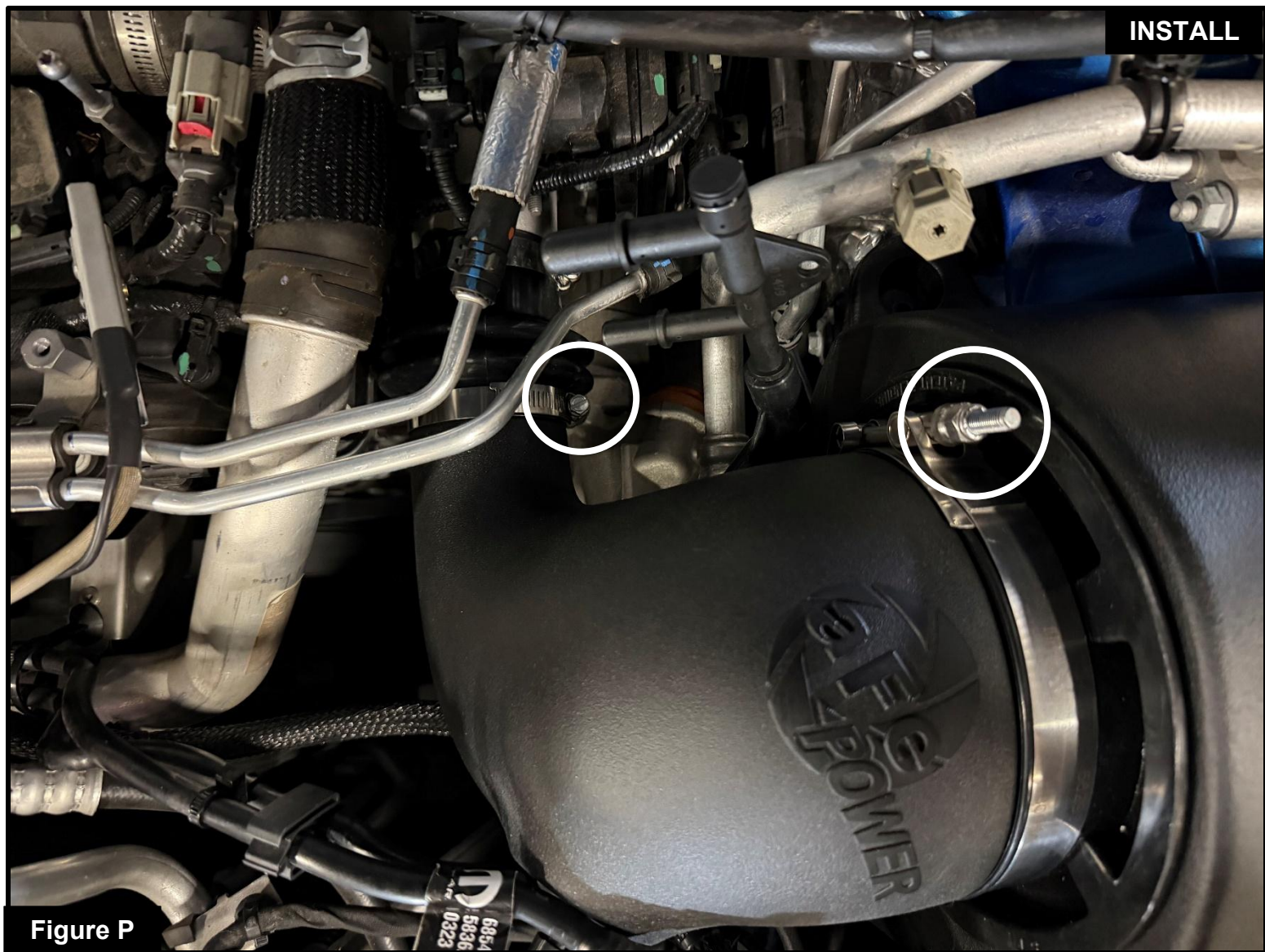


Figure N

Refer to Figure N for Step 22

Step 22: Pre-install provided clamps on the coupler making sure the small clamp (#032) is on the longer end of the coupling and goes to the turbo while the larger clamp (#044) is on the other end. Tighten the turbo side first and leave the other side loose.



INSTALL

Figure P

Refer to Figure P for Step 23

Step 23: Install the tube going into the coupler first then the filter side. Using an 8mm and 11mm socket, tighten both clamps to secure the tube into place.



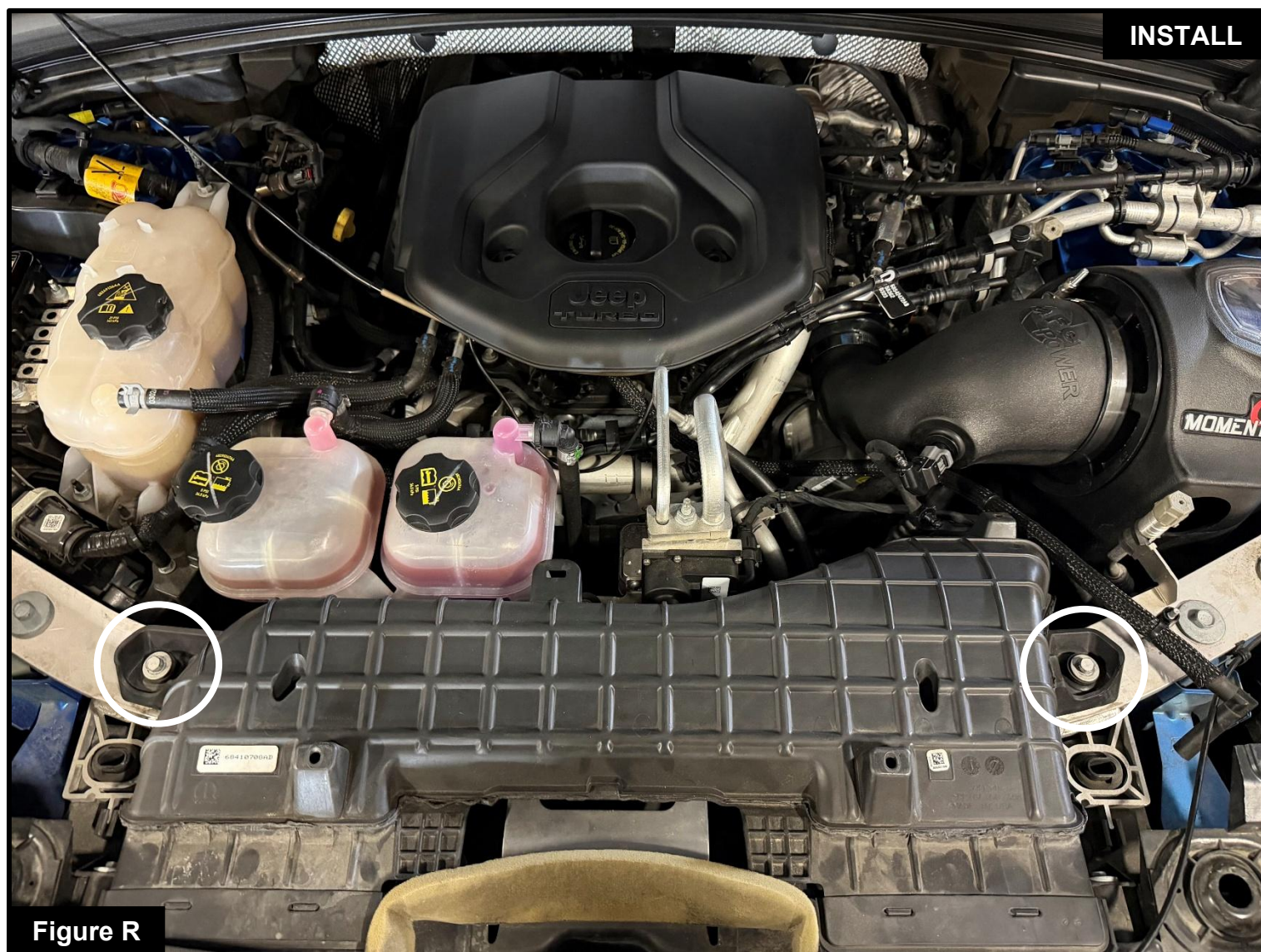
INSTALL

Figure Q

Refer to Figure Q for Steps 24-25

Step 24: Reconnect the two (x2) CCV lines to the fitting. Make sure they clip into place.

Step 25: Reconnect the temperature sensor harness to the temperature sensor.



Refer to Figure R for Step 26

Step 26: Reinstall factory intake scoop with the two (2x) bolts removed in **STEP 4**.



Refer to Figure S for Step 27

Step 27: Reinstall the front trim pieces with the clips removed in **STEP 1**.

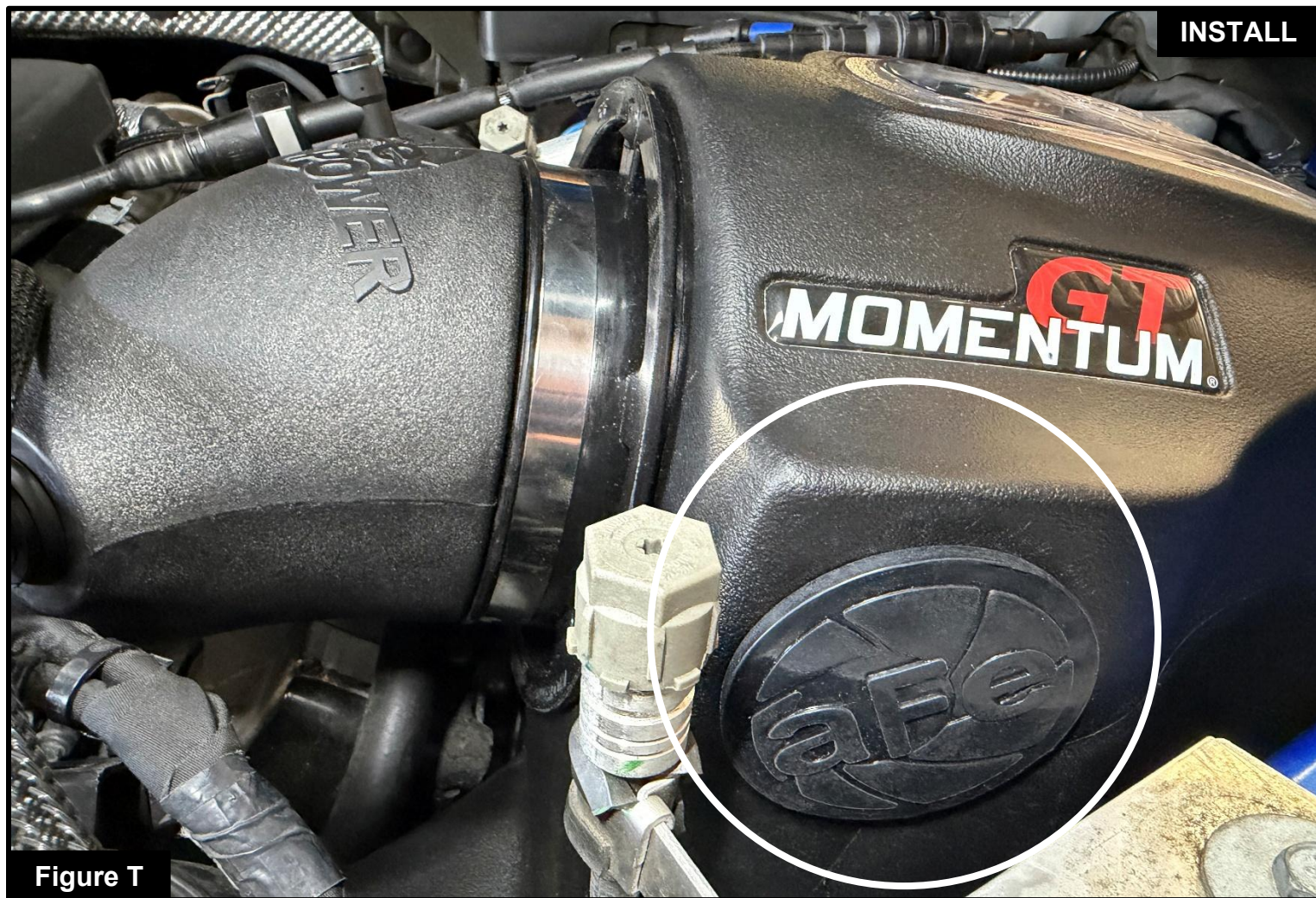


Figure T

Refer to Figure T for Step 28

Step 25: The kit includes an optional plug to close off the auxiliary air inlet. If desired, install the aFe POWER plug on the the hoousing:

- Without the plug installed, the aFe POWER intake will capture the maximum amount of air available. More airflow can lead to increased power, but some of this air may come from inside the engine compartment and could be warmer, potentially affecting vehicle performance.
- Installing the plug on the housing will block out the hot engine air, ensuring that only the coolest ai is directed into the engine. This will also help reduce air intake noise.



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

Note: Check to ensure that all the screws, clamps, and connectors are secure after 100-200 miles.



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