

# **GT** **MOMENTUM**

***advanced FLOW engineering***

Cold Air Intake System

**Instruction Manual** P/N: 50-70083D / 50-70083R

Make: <b>BMW</b>	Model: <b>M2 (G87)</b>	Year: <b>2023-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>
Make: <b>BMW</b>	Model: <b>M3 (G80)</b>	Year: <b>2021-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>
Make: <b>BMW</b>	Model: <b>M3 Competition (G80)</b>	Year: <b>2021-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>
Make: <b>BMW</b>	Model: <b>M4 (G82)</b>	Year: <b>2021-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>
Make: <b>BMW</b>	Model: <b>M4 Competition (G82)</b>	Year: <b>2021-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>
Make: <b>BMW</b>	Model: <b>M4 Competition (G83)</b>	Year: <b>2022-2024</b>	Engine: <b>L6-3.0L (tt) S58</b>



- 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	2	Air Filter (Pro DRY S)	21-91097
A	2	Air Filter (Pro 5R)	24-91097
B	1	Tube, Driver Side	05-5070083B1
C	1	Tube, Passenger Side	05-5070083B2
D	1	Housing, Driver Side	05-5070083B3
E	2	Housing, Passenger Side	05-5070083B4
F	1	Coupling, Silicone Bellows	05-01525
G	3	Clamp, #048	03-50007
H	2	Auxiliary Plug	05-00937

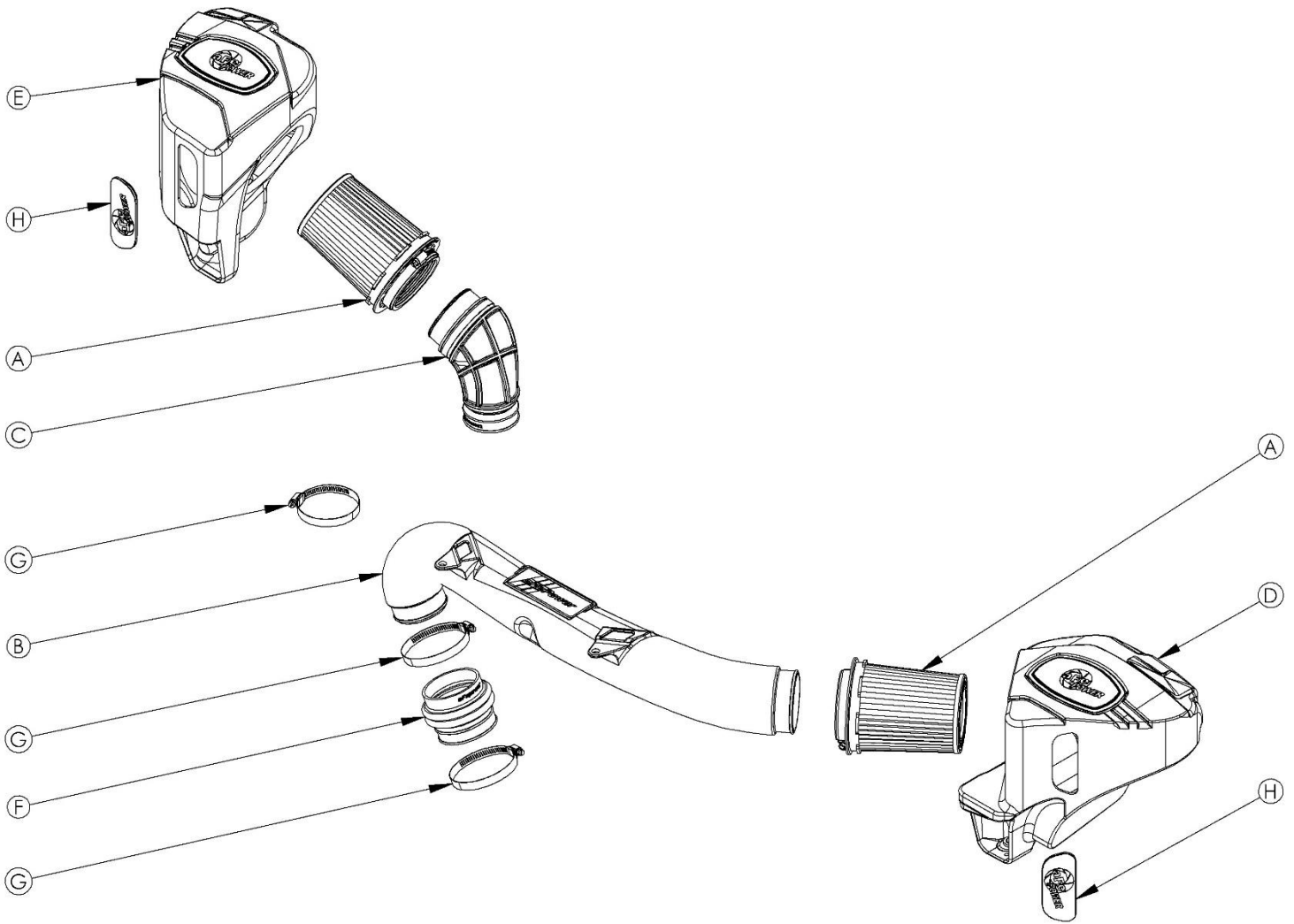
**Installation will require the following tools:**

6mm and 8mm nut drivers or sockets, socket set, socket wrench, flat-head screwdriver.

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.



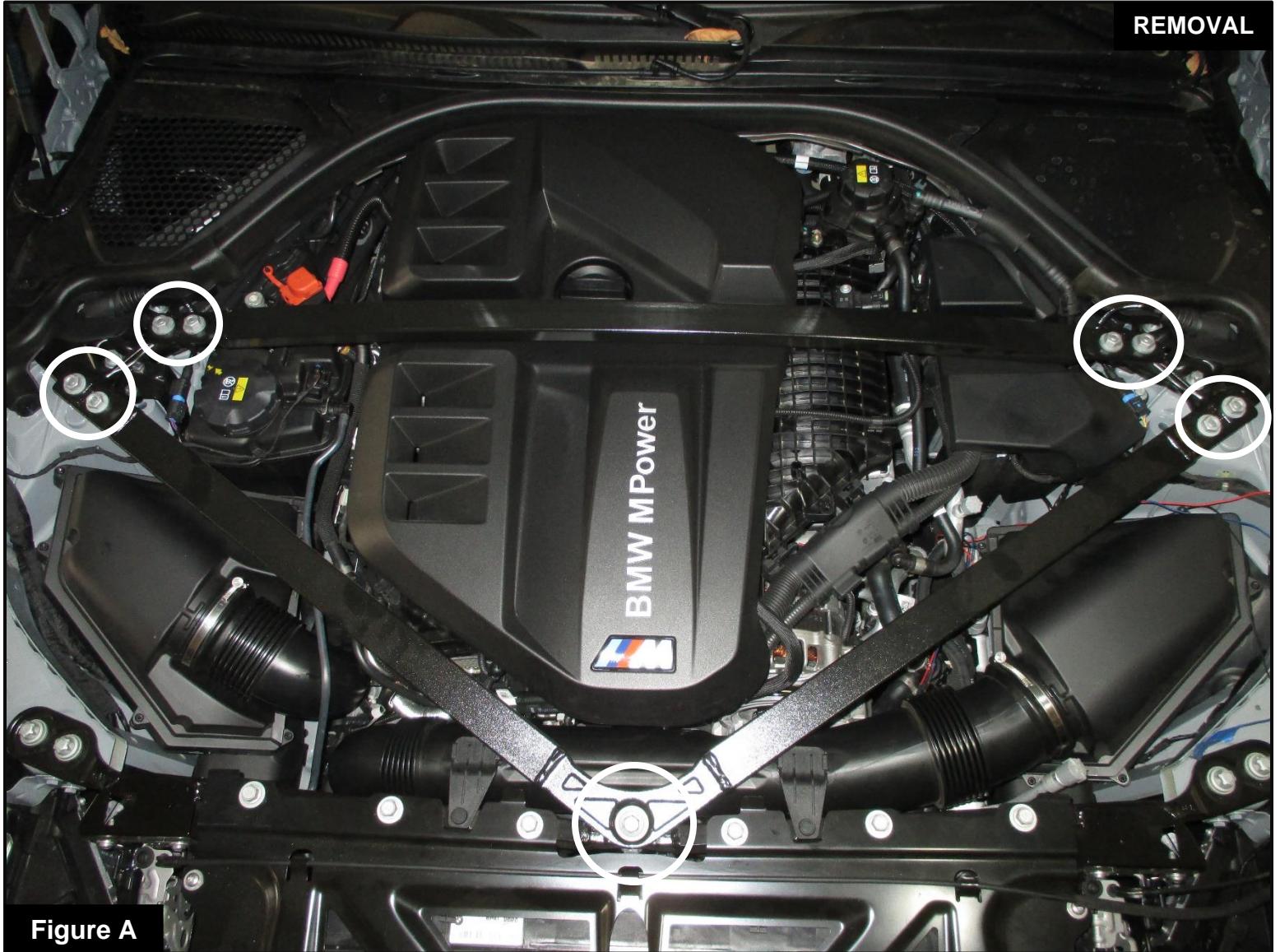


Figure A

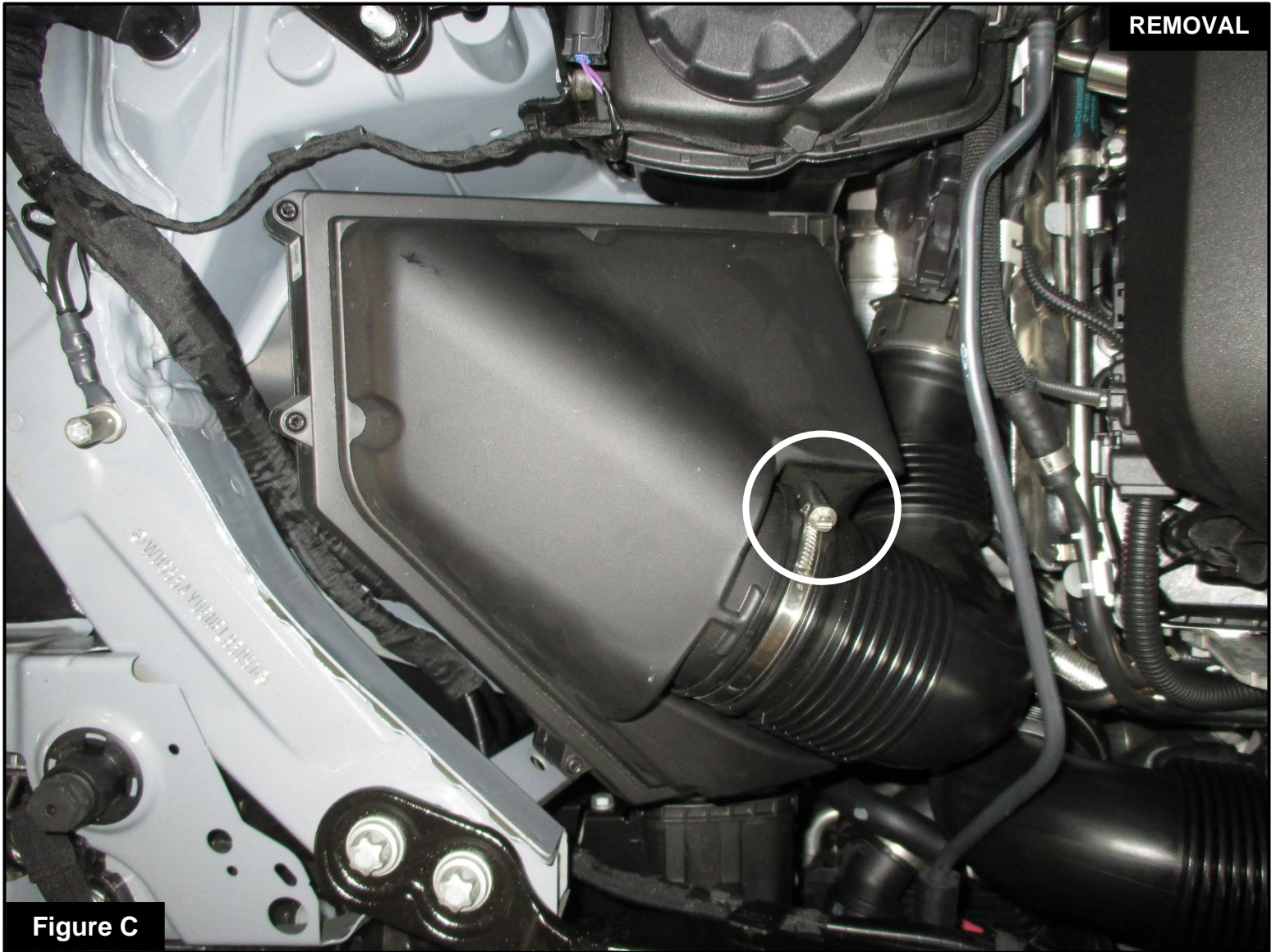
**Refer to Figure A for Step 1**

Step 1: Remove the two (2) factory braces. Keep all parts for future use.



**Refer to Figure B for Step 2**

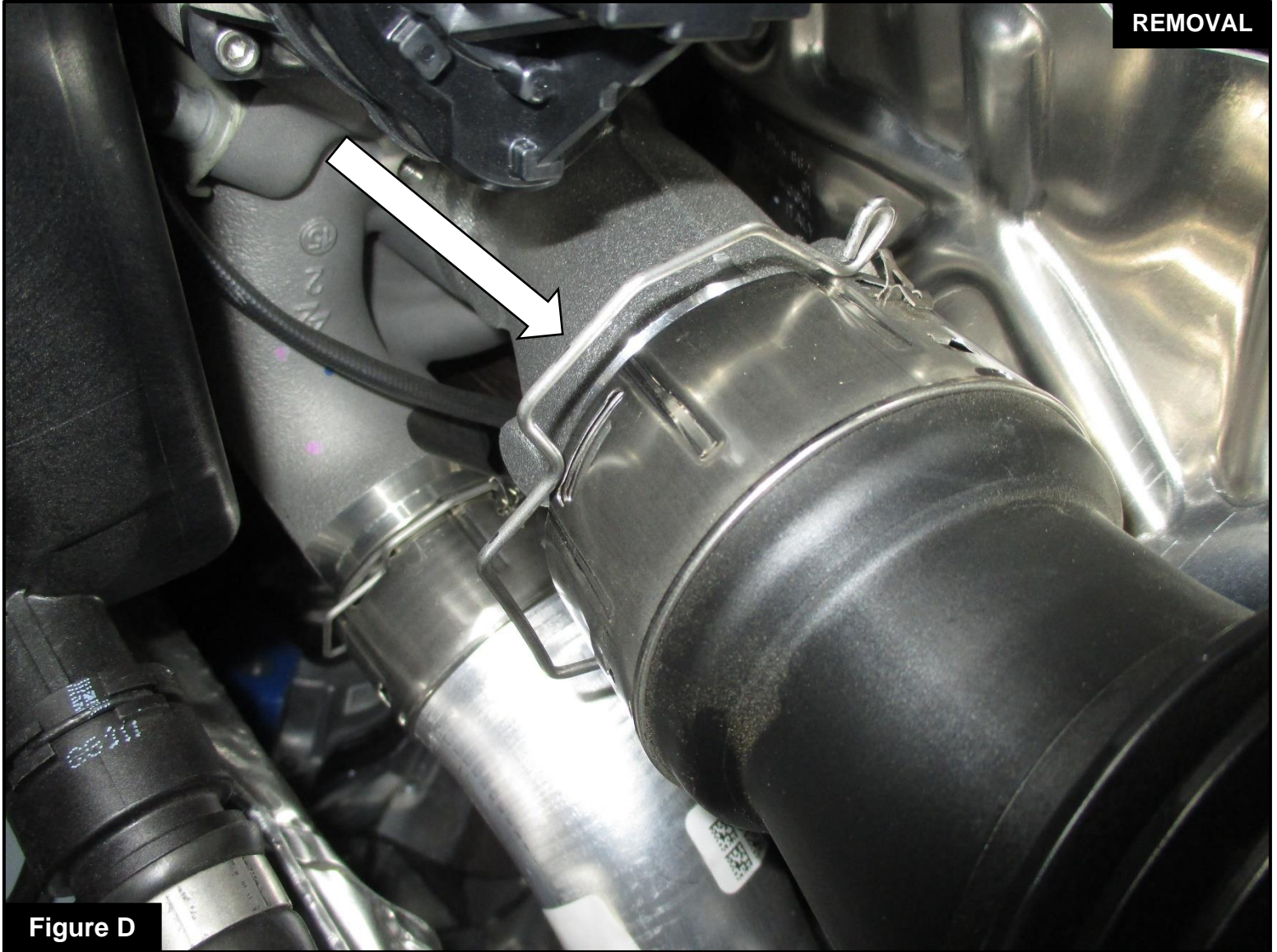
Step 2: Remove the engine cover.



**Refer to Figure C for Steps 3-4**

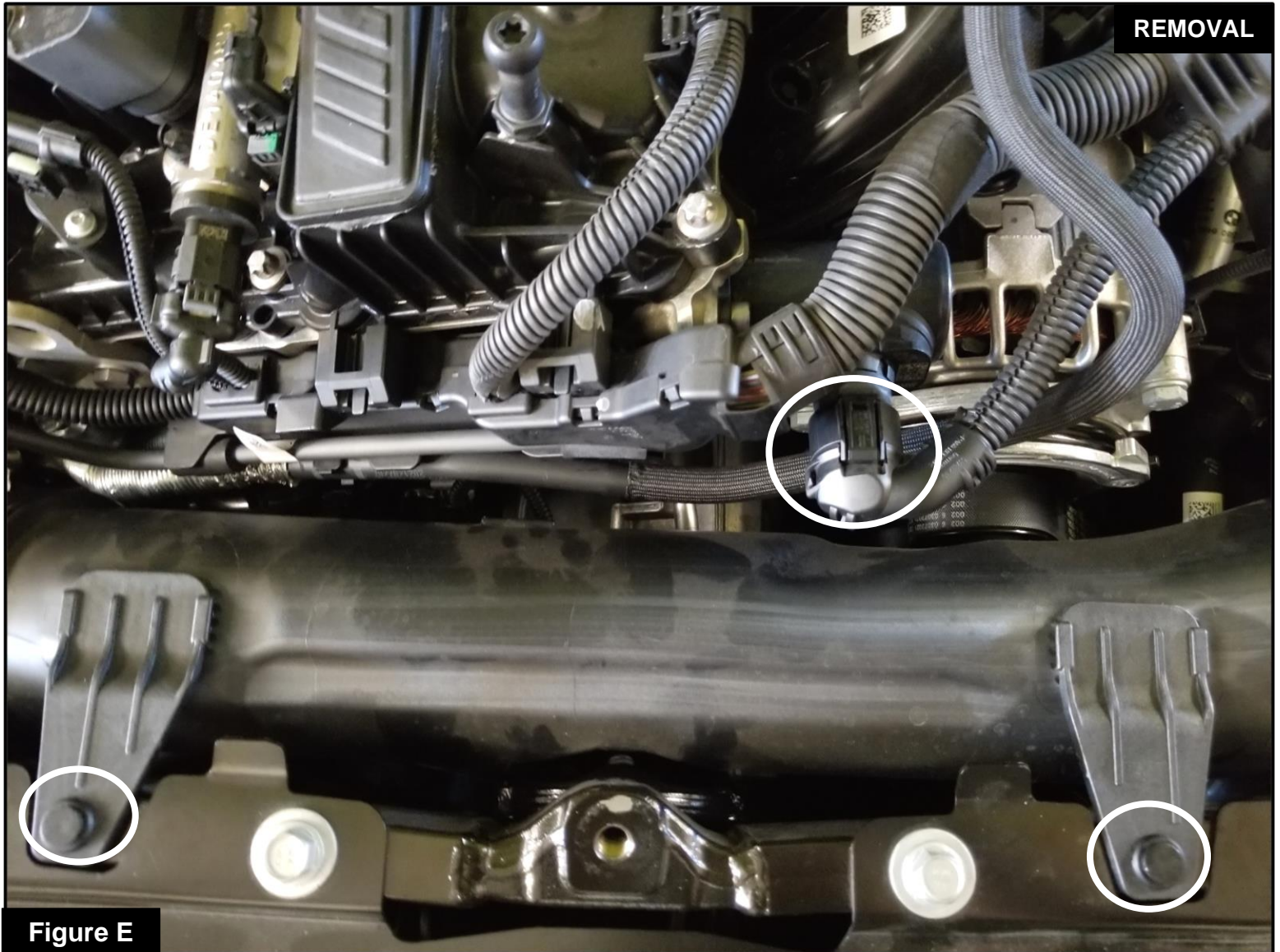
Step 3: Loosen the clamp between the factory housing and the factory intake tube on the passenger side.

Step 4: Carefully pull up on the factory housing to remove from the vehicle.

**Figure D****Refer to Figure D for Steps 5-6**

Step 5: Remove the retention clip securing the passenger side factory intake tube to the turbo.

Step 6: Carefully pull the factory intake tube from the vehicle.



**Figure E**

**Refer to Figure E for Steps 7-8**

Step 7: Disconnect the engine module sensor harness from the vehicle.

Step 8: Remove the two (2) clips holding the driver side factory intake tube. Keep for later use in this install.



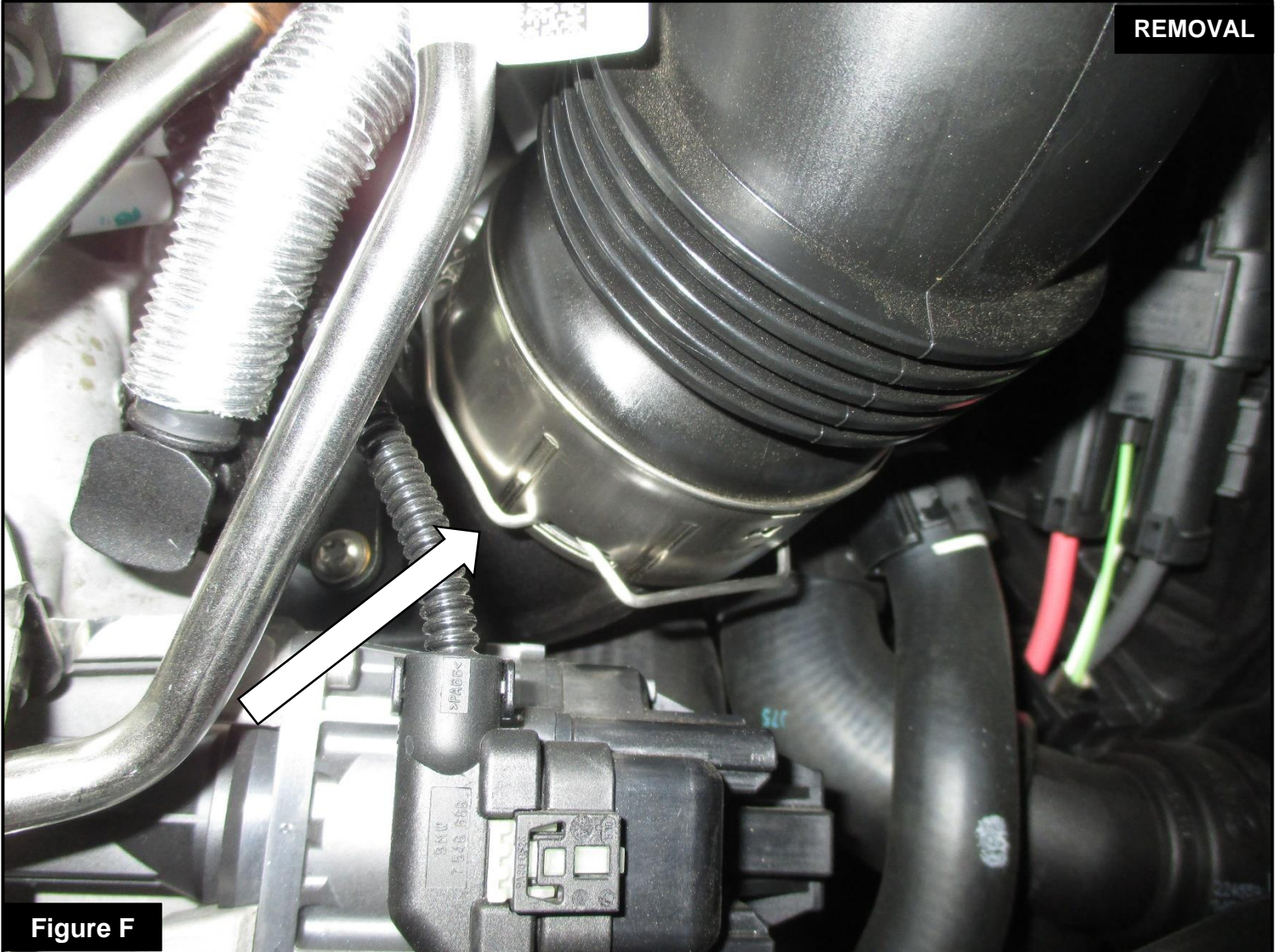
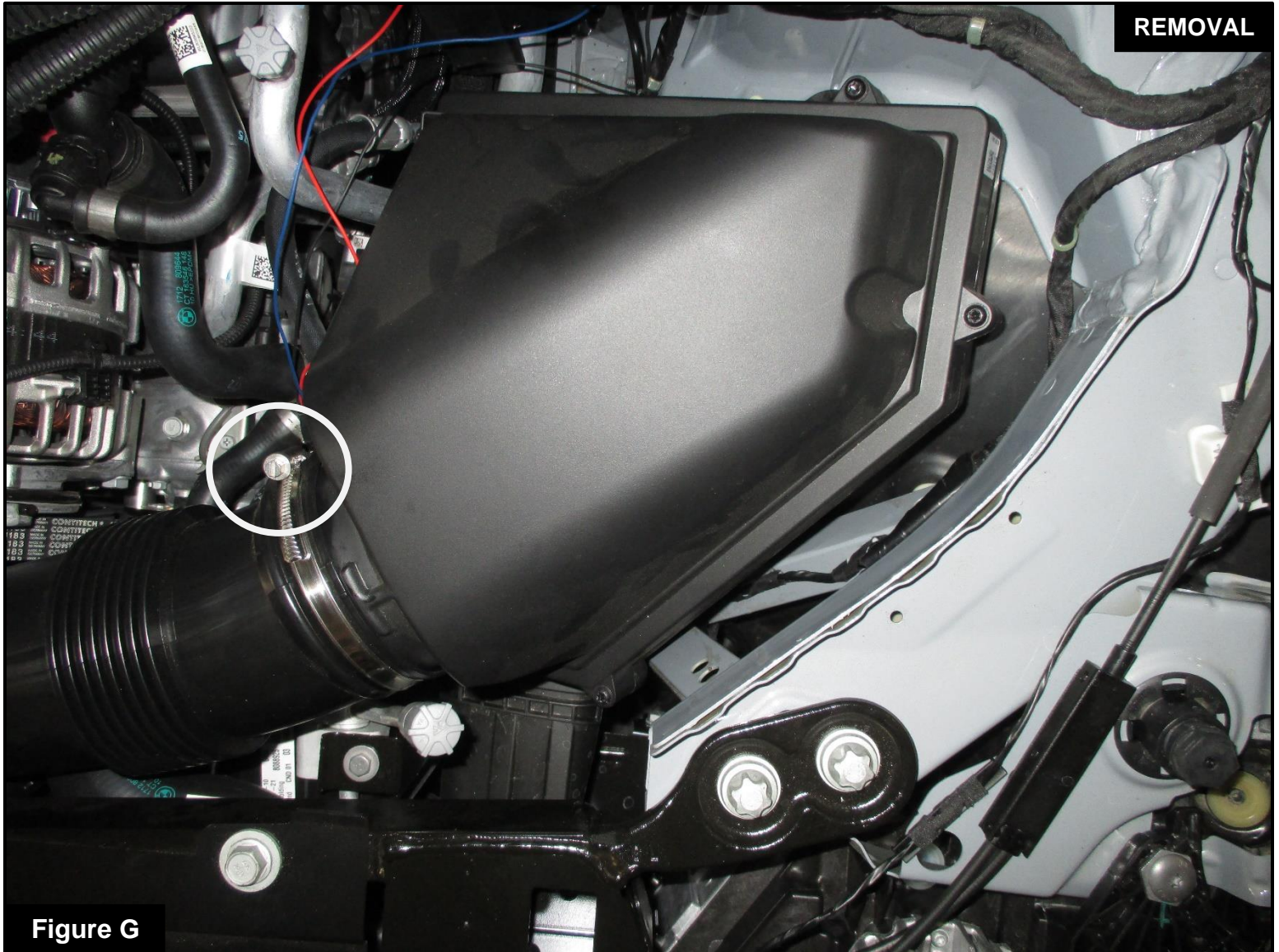


Figure F

**Refer to Figure F for Step 9**

Step 9: Remove the retention clip securing the driver side factory intake tube to the turbo.



**Refer to Figure G for Steps 10-12**

Step 10: Loosen the clamp on the driver side factory housing.

Step 11: Carefully pull up on the driver side factory housing to remove from the vehicle.

Step 12: Gently, slip the driver side factory intake tube out of the vehicle.



Figure H

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

Step 13: Install the supplied air filter into the driver side aFe POWER housing. Place the air filter into the large opening on the side of the aFe POWER housing, then gently press making sure the air filter's tabs lock into place.

Step 14: Repeat for the passenger side aFe POWER housing.



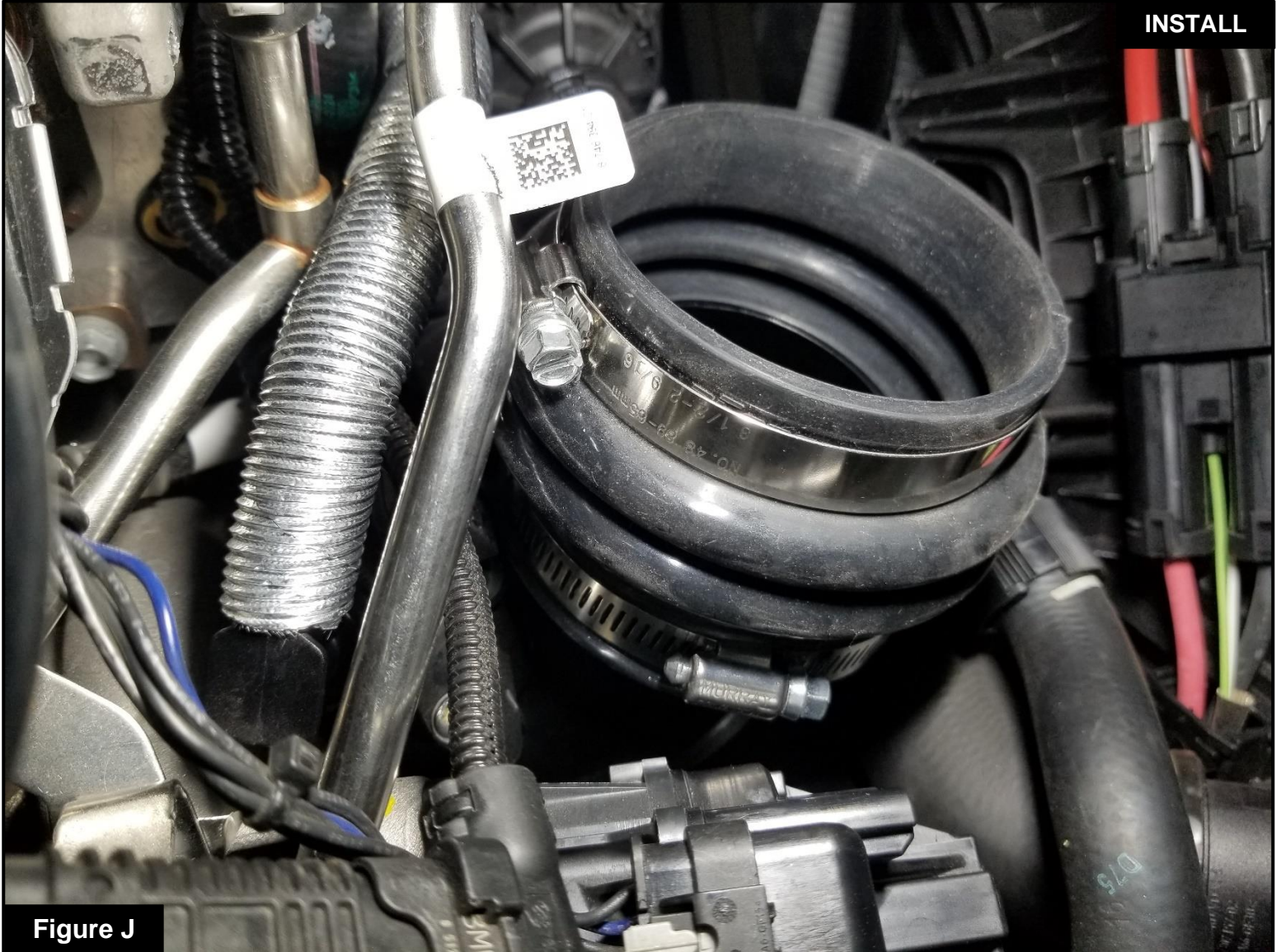
**Figure I**

### **Refer to Figure I for Step 15**

Step 15: This kit includes optional plugs to close off the auxiliary air inlets. Install the plug if you wish to close it off, to only capture cold air from the factory inlet.

**NOTE: Without the plug installed, the aFe POWER intake will capture the maximum air available. More airflow offers more power. Some of this air is picked up from inside the engine compartment and could be warmer air. Warmer air will affect the performance of the vehicle.**

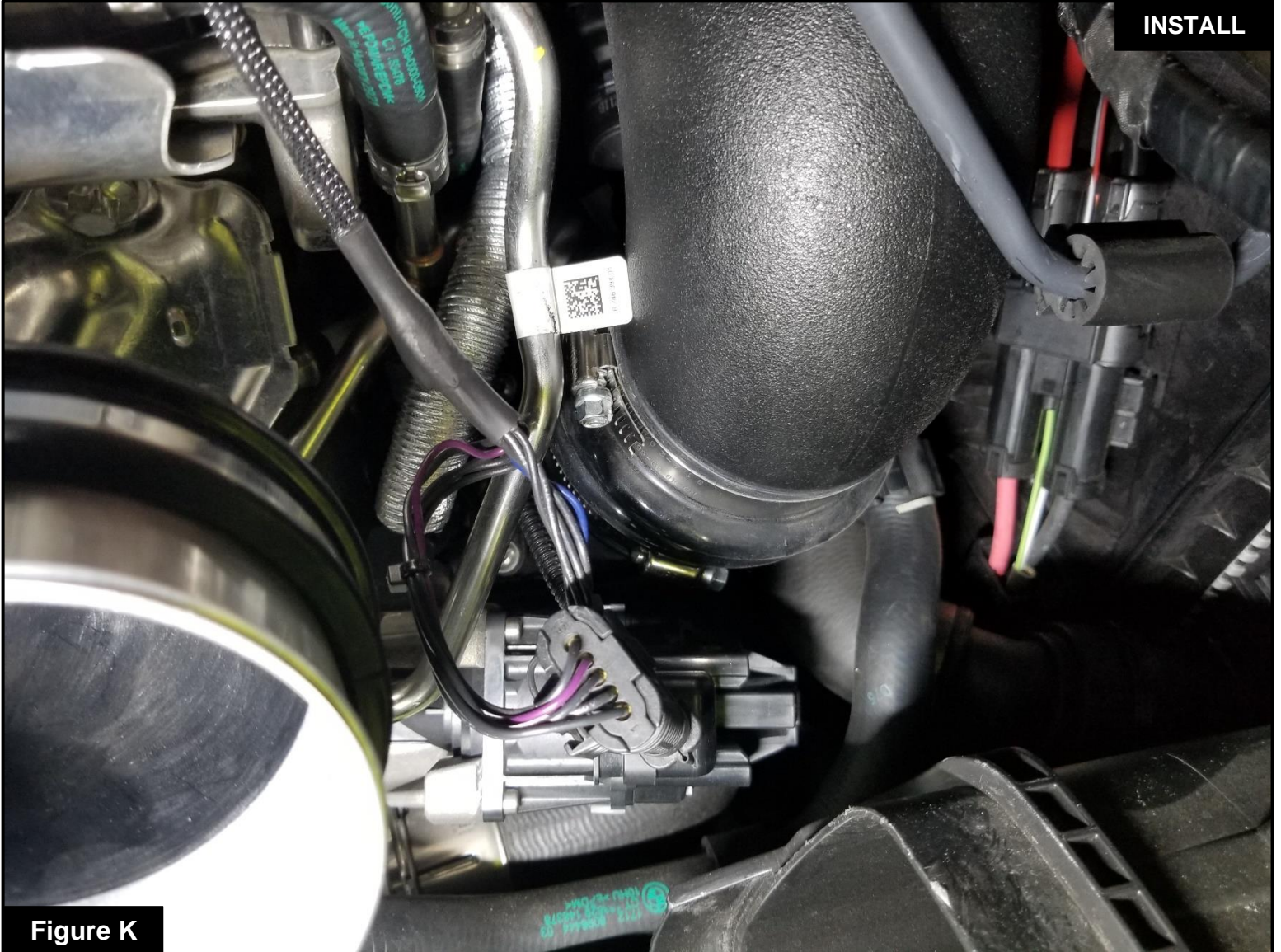
**The plug installed on the housing will block off any hot engine air entering the housing to make sure the coolest air available is directed into the engine. The plug will also reduce the noise of the intake.**

**Figure J****Refer to Figure J for Steps 16-18**

Step 16: Install the supplied driver side coupling onto the turbo inlet and place the supplied clamps onto the coupling.

Step 17: Make sure to have the end of the coupling sit flush to the rim of the turbo inlet. This is to make sure the interior bead of the coupling sits correctly in the groove of the turbo inlet.

Step 18: Tighten only the clamp between the coupling and the turbo inlet. Do not tighten the clamp at the open end of the coupling.

**Figure K****Refer to Figure K for Step 19**

Step 19: Install the driver side aFe POWER intake tube into the coupling. Do not tighten the clamp at this time.



Figure L

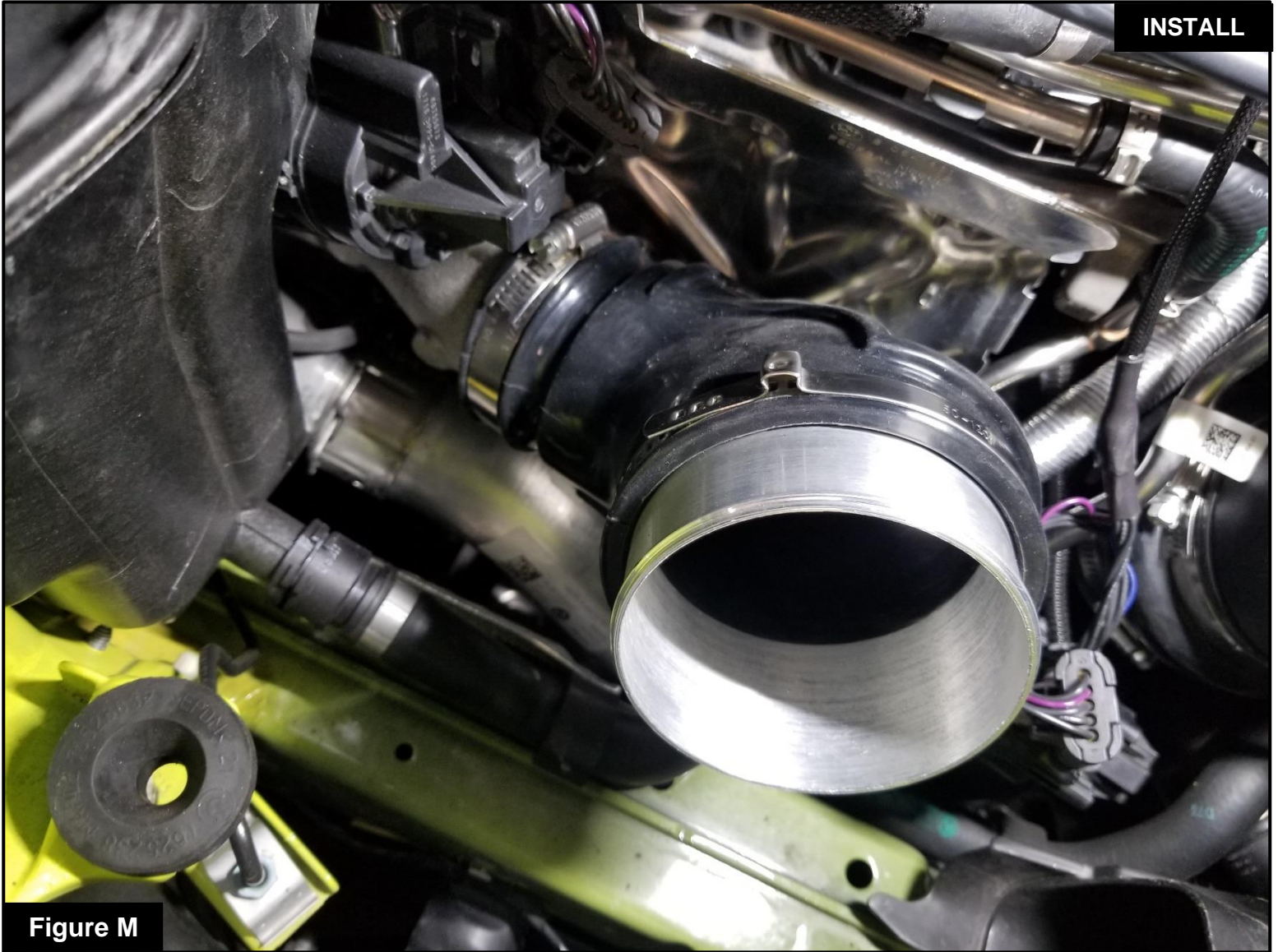
### Refer to Figure L for Steps 20-23

Step 20: Install the assembled driver's side aFe POWER housing and air filter into the engine bay by pressing down firmly into the three (3) factory mounting grommets.

Step 21: Slip the aFe POWER intake tube into the air filter. Do not tighten the clamps at this time.

Step 22: Use the factory clips from **Step 8** to secure the aFe POWER intake tube in place.

Step 23: Tighten the two clamps at the ends of the aFe POWER intake tube.

**Figure M****Refer to Figure M for Steps 24-25**

Step 24: Install the passenger side aFe POWER intake tube onto the turbo inlet and place the supplied clamp onto the coupling.

Step 25: Make sure to have the end of the coupling sit flush to the rim of the turbo inlet. This is to make sure the interior bead of the coupling sits correctly in the groove of the turbo inlet. Do not tighten the clamps at this time.





**Refer to Figure N for Steps 26-28**

Step 26: Install the passenger side aFe POWER housing into the vehicle.

Step 27: Slip the aFe POWER intake tube into the air filter and tighten the clamp.

Step 28: Then tighten the clamp between the aFe POWER intake tube and the turbo inlet.

**Figure O****Refer to Figure O for Steps 29-32**

Step 29: Reconnect the engine module sensor harness from **Step 7**.

Step 30: Re-install the engine cover.

Step 31: Re-install the brace from **Step 1**.

Step 32: Make sure all components and connections are secure. Your installation is now complete. Thank you for choosing aFe POWER!

**Check all clamps, hoses, and connections are secure after 100-200 miles.**



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