

***advanced FLOW engineering*** BladeRunner – Charge Pipe Combo Kit

**Instruction Manual** P/N: 46-20814-B

Make: RAM

Model: 2500

Year: 2025–2026

Engine: L6-6.7L(td)

Make: RAM

Model: 3500

Year: 2025–2026

Engine: L6-6.7L(td)



- 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.	UoM	Description	Part Number
A	1	Ea.	Tube, Hot Side: 46-20818-B	05-61735B
B	1	Ea.	Tube, Cold Side: 46-20819-B	05-61736B
C	1	Ea.	Coupling, Silicone Hump: 2-3/4"ID x 7"L w/Int Bead	05-60382
D	1	Ea.	Coupling, Silicone Reducer:(3-1/2"x3")ID x 3-1/2"L	05-60097
E	2	Ea.	Coupling, Silicone Elbow: 3"ID x 45 Deg	05-60433
F	2	Ea.	Clamp, Spring Loaded T-Bolt: (2.875"-3.125") (ss)	05-60013
G	5	Ea.	Clamp, Spring Loaded T-Bolt: (3.25" - 3.5") (ss)	05-60530
H	1	Ea.	Clamp, Spring Loaded T-Bolt: (3.75" - 4") (ss)	05-60024
J	2	Ea.	Plug, Hex Hd Socket: 1/8" NPT (Zn Plt)	03-50029

**Installation will require the following tools:**

- Torque Wrench
- 1/4" Socket Wrench
- 6"-12" Extensions
- 8mm Deep Socket
- 10mm Deep Socket
- 11mm Deep Socket
- 7/16" Deep Socket
- 3/16in Hex Driver
- Flat Head Screwdriver
- Trim Removal Tool Set
- Pick Set
- Thread Sealant

**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>

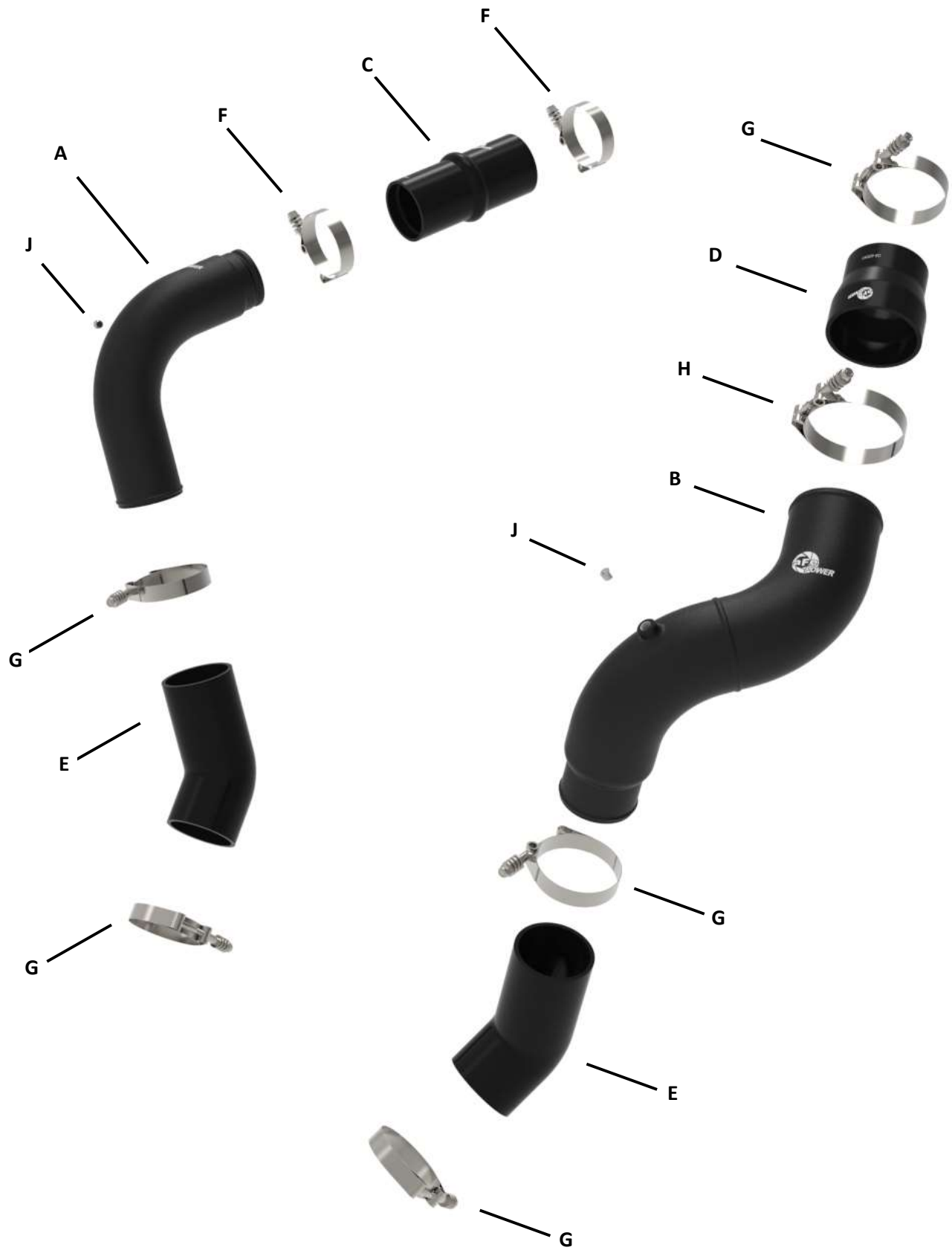




Figure A

**Refer to Figure A for Steps 1-6**

Step 1: Park vehicle on level ground and engage the parking brake.

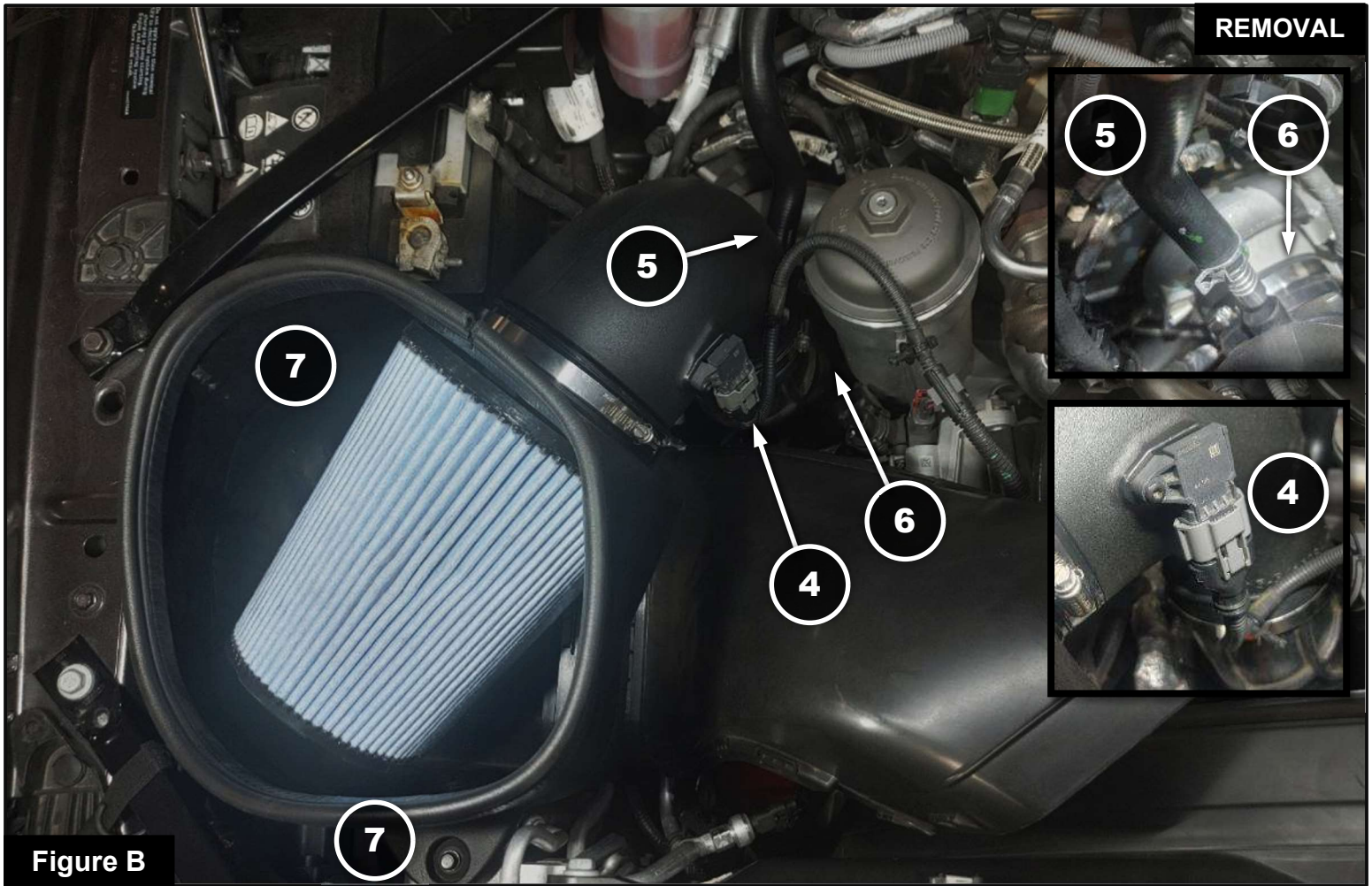
Step 2: Disconnect both negative battery cables.

Step 3: Remove the radiator cover by removing the fourteen (14) clips securing it onto the vehicle. (1)

Step 4: Remove the two (2) screws securing the air intake scoop onto the vehicle. (2)

Step 5: Release the air intake scoop from the air intake housing. (3)

Step 6: Remove the air intake scoop from the vehicle.



REMOVAL

Figure B

**Refer to Figure B for Steps 7-12**

- Step 7: Remove any wiring harness clips attached to the air intake box if equipped.
- Step 8: Disconnect the electrical connector for the IAT (Intake Air Temperature) sensor. (4)
- Step 9: Disconnect the hose from the air intake tube. (5)
- Step 10: Loosen the clamp securing the air intake tube to the turbocharger inlet. (6)
- Step 11: Pull up on the air intake assembly to release the housing from the three (3) mounting pegs. (7)
- Step 12: Remove the air intake assembly from the vehicle.

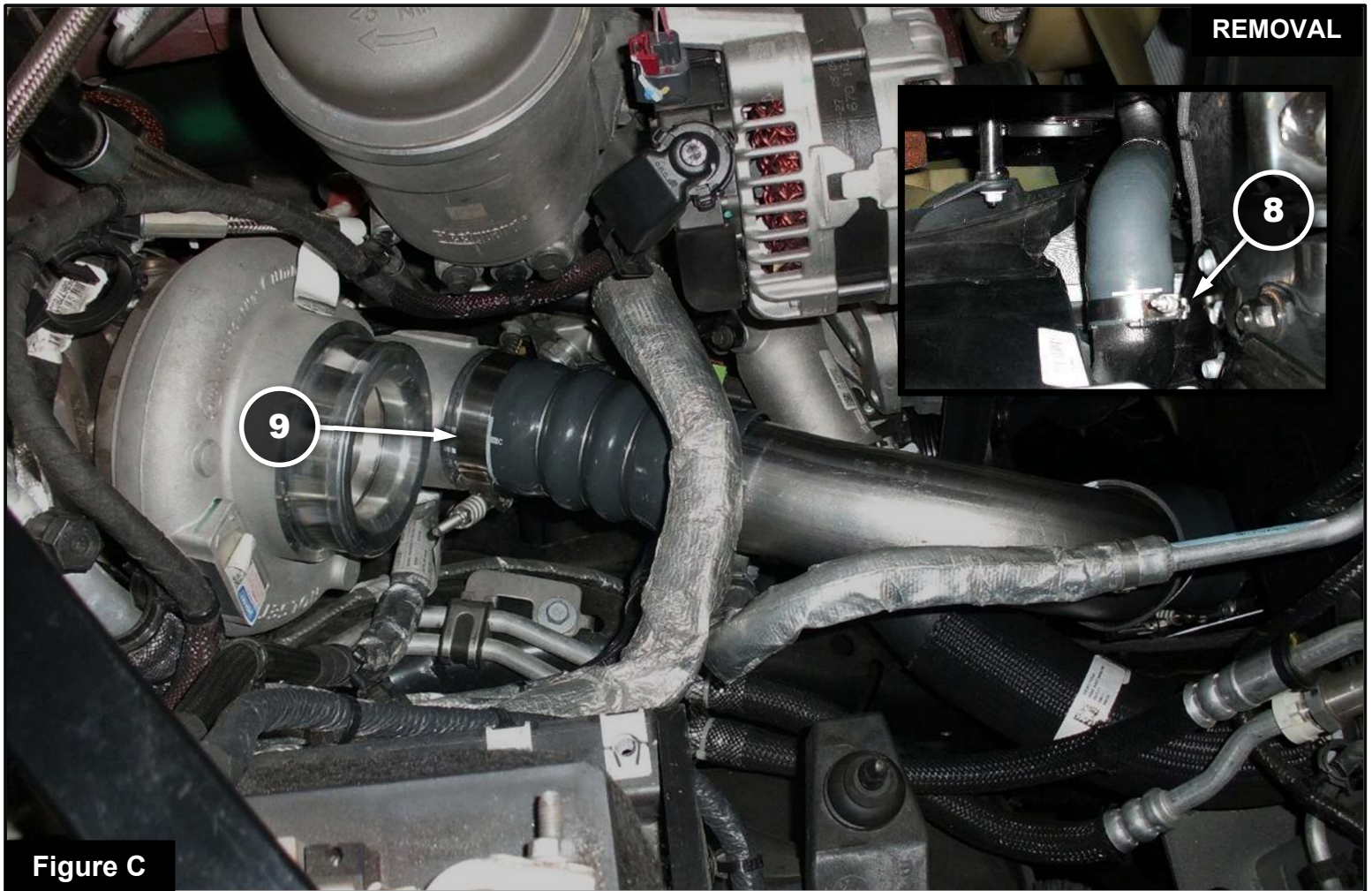
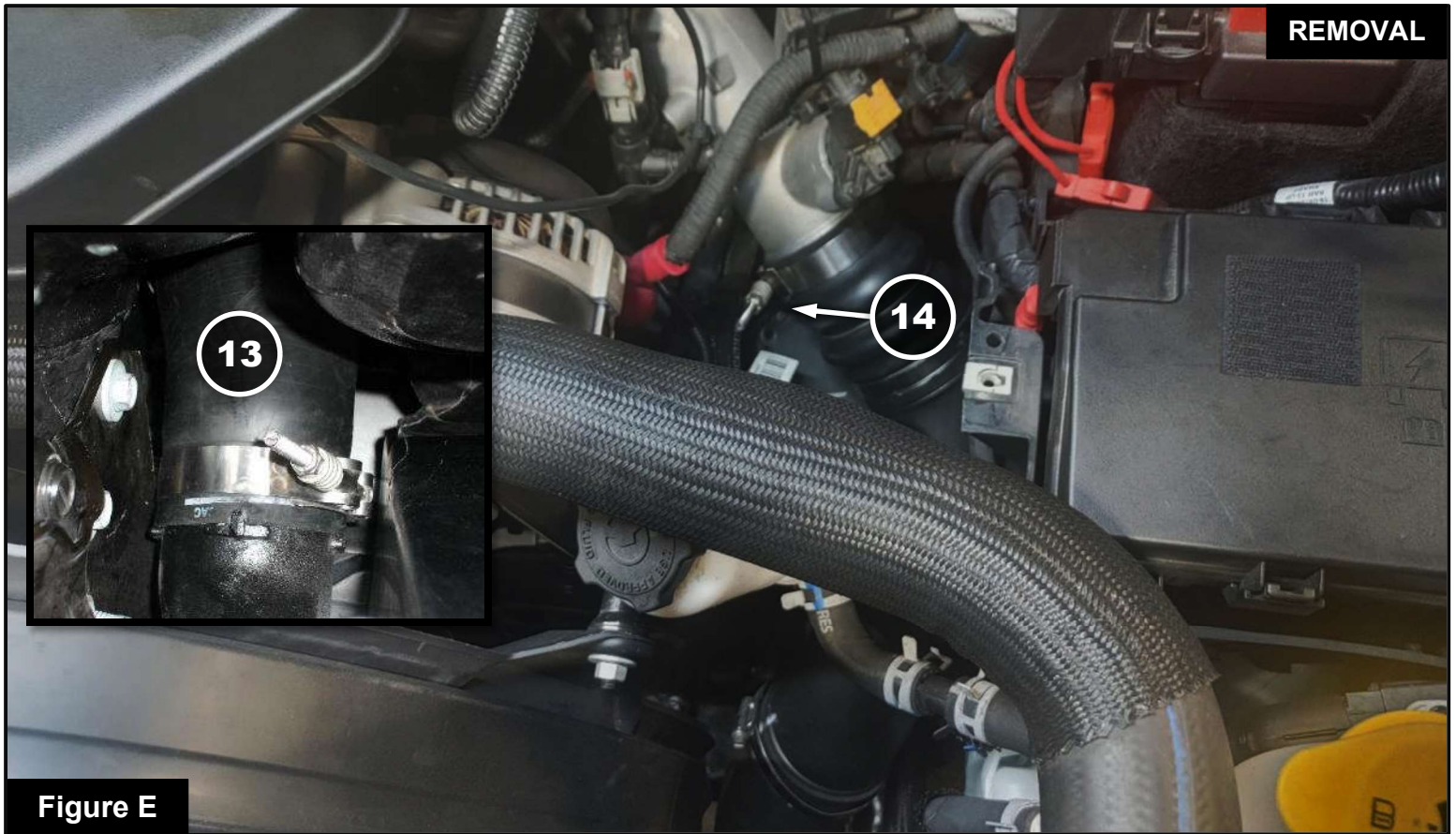


Figure C

**Refer to Figure C for Steps 13-16**

- Step 13: Underneath the vehicle, loosen the clamp securing the hot side charge pipe coupling to the intercooler. ⑧
- Step 14: Disconnect the coupling from the intercooler inlet.
- Step 15: Loosen the clamp securing the hot side charge pipe coupling to the turbocharger. ⑨
- Step 16: Disconnect the hot side charge pipe coupling from the turbocharger outlet and remove the hot side charge pipe assembly from the vehicle.





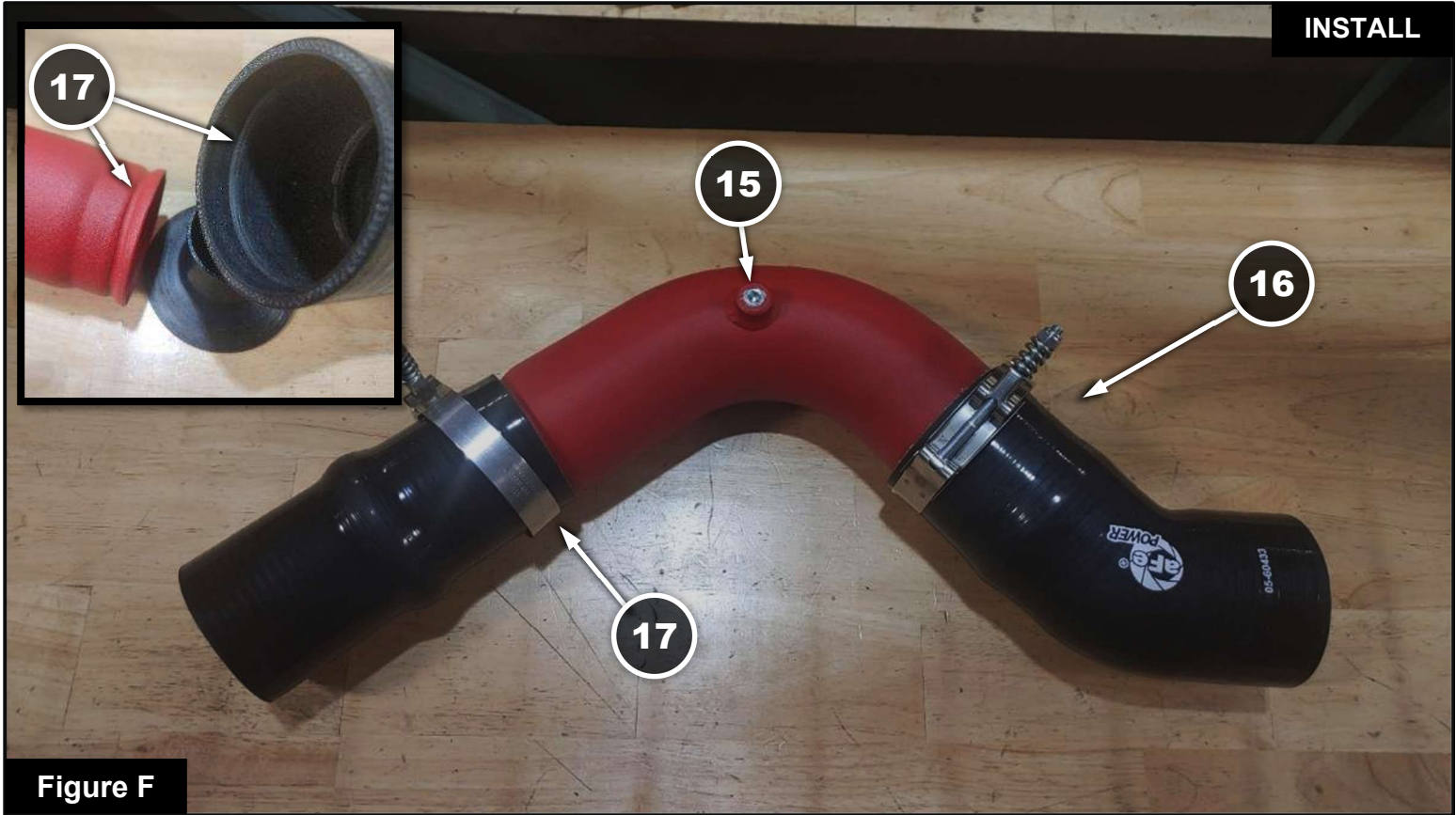
**Refer to Figure E for Steps 21-24**

Step 21: Underneath the vehicle, loosen the clamp securing the cold side charge pipe coupling to the intercooler. ⑬

Step 22: Remove the cold side charge pipe coupling from the intercooler outlet.

Step 23: Loosen the clamp securing the cold side charge pipe to the engine inlet. ⑭

Step 24: Disconnect the cold side charge pipe coupling from the engine inlet and remove the cold side charge pipe assembly from the vehicle.


**Figure F**
**Refer to Figure F for Steps 25-28**

**NOTE: Be sure to use thread sealant on the plug or sensor to prevent any leaks.**

Step 25: If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the threaded fitting on the aFe POWER hot side charge pipe. (15)

Step 26: Install one (1) 3.25"-3.5" spring-loaded T-bolt clamp and the longer side of the aFe POWER 3"ID x 45 Deg silicone elbow coupling onto the 3" end of the aFe POWER hot side charge pipe; leave the clamp loose. (16)

Step 27: Install one (1) 2.875"-3.125" spring-loaded T-bolt clamp and the aFe POWER 2-3/4"ID x 7"L beaded silicone hump coupling onto the reduced 2.75" end of the aFe POWER hot side charge pipe; leave the clamp loose. (17)

**NOTE: Ensure the bead on the inside diameter of the hump coupling sits in the groove of the aFe POWER hot side charge pipe.**

Step 28: Adjust the couplings in a similar orientation to the original hot side charge pipe.

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

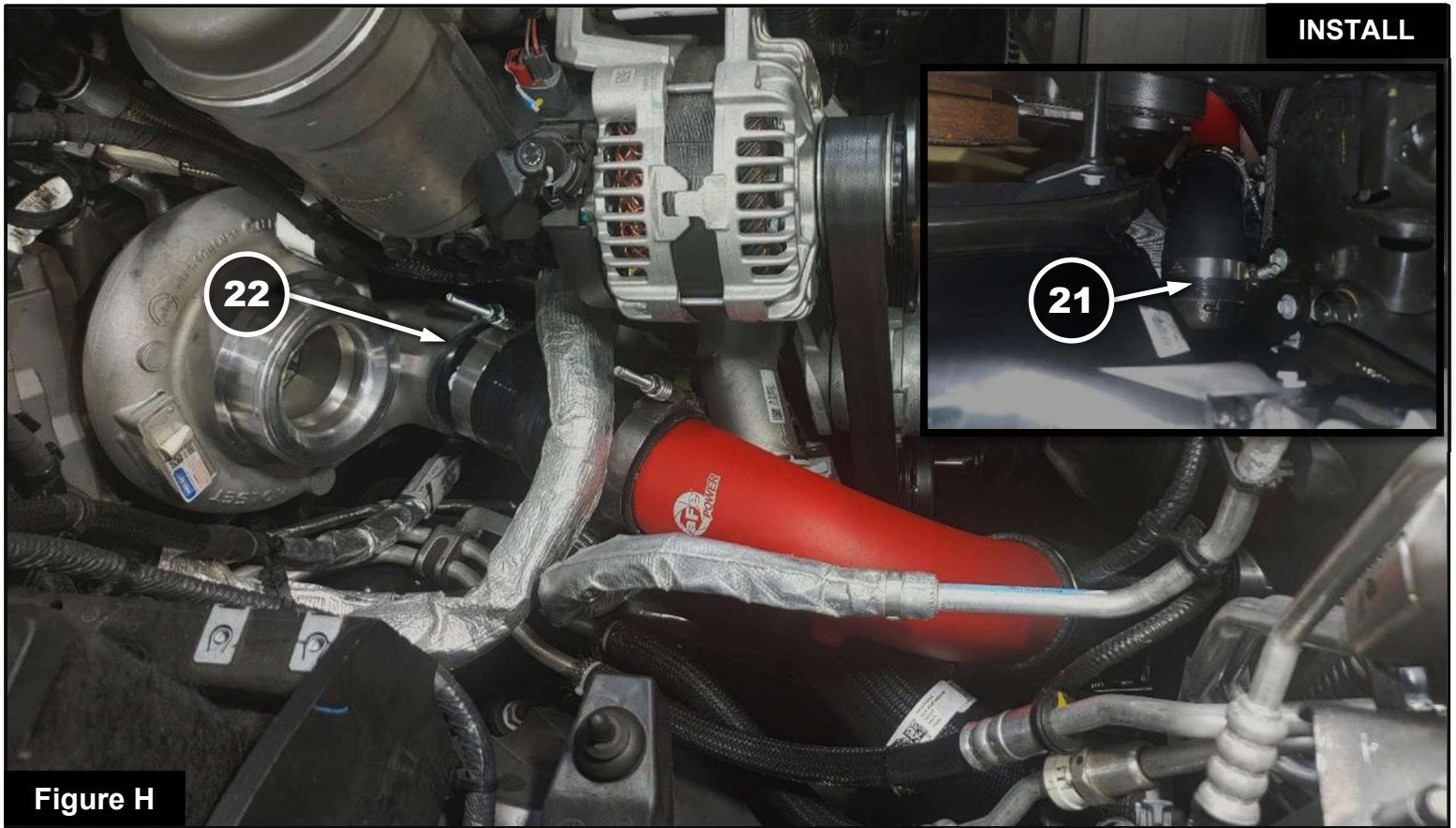
**NOTE: Be sure to use thread sealant on the plug or sensor to prevent any leaks.**

Step 29: If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the threaded fitting on the aFe POWER cold side charge pipe. (18)

Step 30: Install one (1) 3.25"–3.5" spring-loaded T-bolt clamp and the longer side of the aFe POWER 3"ID x 45 Deg silicone elbow coupling onto the 3" reduced end of the aFe POWER cold side charge pipe; leave the clamp loose. (19)

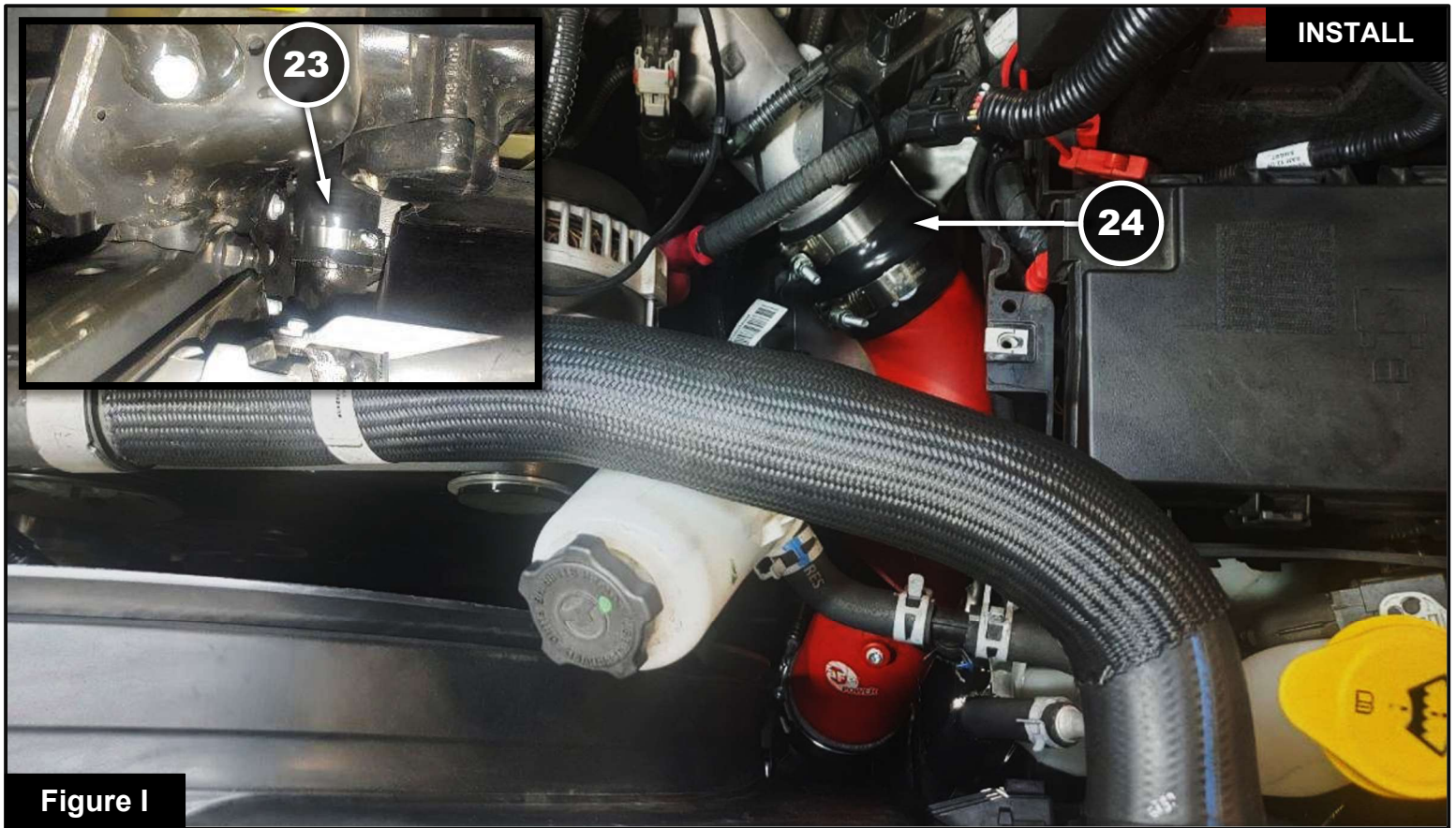
Step 31: Install one (1) 3.75" - 4" spring-loaded T-bolt clamp and the aFe POWER silicone reducer coupling onto the 3-1/2" side of the aFe POWER cold side charge pipe, pushing the coupling as far onto the charge pipe as possible; leave the clamp loose. (20)

Step 32: Adjust the couplings in a similar orientation to the original cold side charge pipe.



**Refer to Figure H for Steps 33-38**

- Step 33: Install the preassembled aFe POWER hot side charge pipe into the vehicle from the top.
- Step 34: Install one (1) 3.25"–3.5" spring-loaded T-bolt clamp onto the intercooler inlet; leave the clamp loose.
- Step 35: Connect the elbow coupling to the intercooler inlet; leave the clamp loose. (21)
- Step 36: Install one (1) 3.25"–3.5" spring-loaded T-bolt clamp onto the turbocharger outlet; leave the clamp loose.
- Step 37: Connect the hump coupling to the turbocharger outlet; leave the clamp loose. (22)
- Step 38: Adjust the couplings as necessary to avoid interference with any other components.



### **Refer to Figure I for Steps 39-45**

Step 39: Install the aFe POWER cold side charge pipe into the vehicle from the top.

Step 40: Install one (1) 3.25"–3.5" spring-loaded T-bolt clamp onto the intercooler outlet; leave the clamp loose.

Step 41: Connect the elbow coupling to the intercooler outlet; leave the clamp loose. (23)

Step 42: Install the remaining 3.25"–3.5" spring-loaded T-bolt clamp over the reducer coupling.

Step 43: Connect the aFe POWER coupling to the engine inlet; leave the clamp loose. (24)

Step 44: Adjust all couplings to ensure they are fully seated, properly aligned, and do not interfere with any surrounding components before tightening clamps.

Step 45: Torque all spring-loaded T-bolt clamps on both charge pipes to 10 ft-lbs (120 in-lbs) or until the spring is fully compressed. Do not over-tighten.

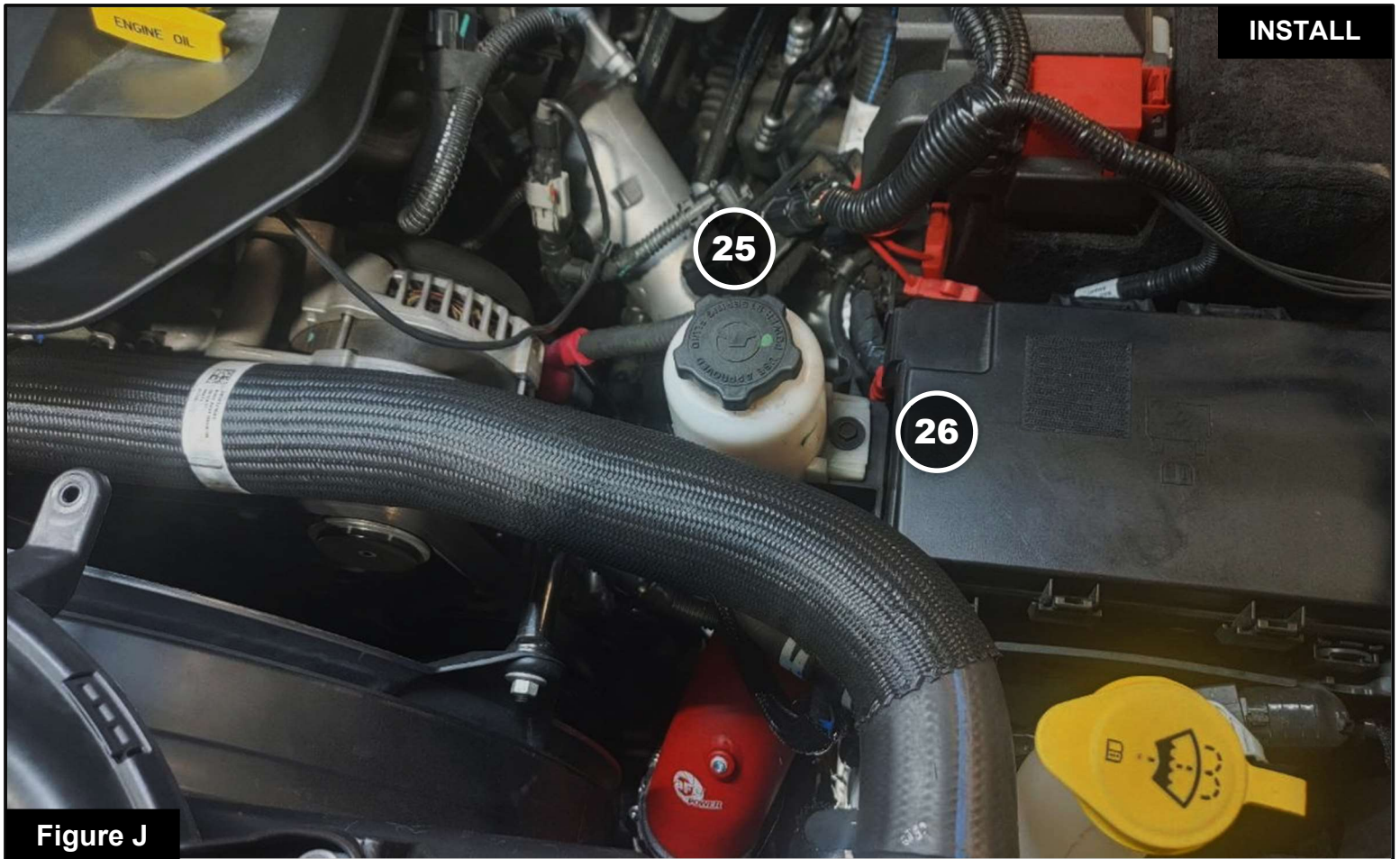


Figure J

**Refer to Figure J for Steps 46-48**

Step 46: Reconnect the engine harness link in the reverse order of removal. ②⑤

Step 47: Reconnect all routing clips for the engine harness and hoses in the reverse order of removal.

Step 48: Reinstall the power steering pump reservoir in the reverse order of removal. ②⑥

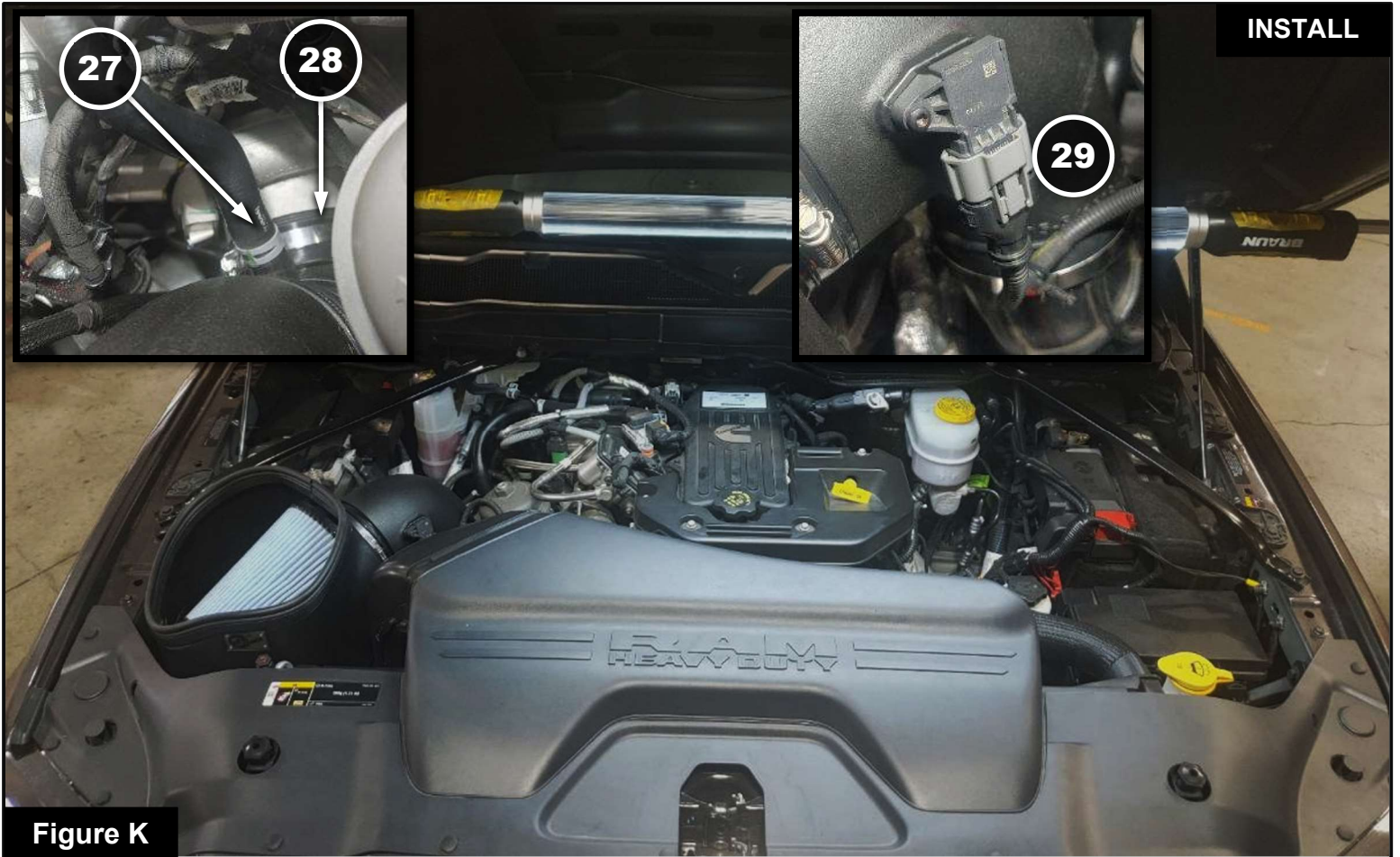


Figure K

**Refer to Figure K for Steps 49-53**

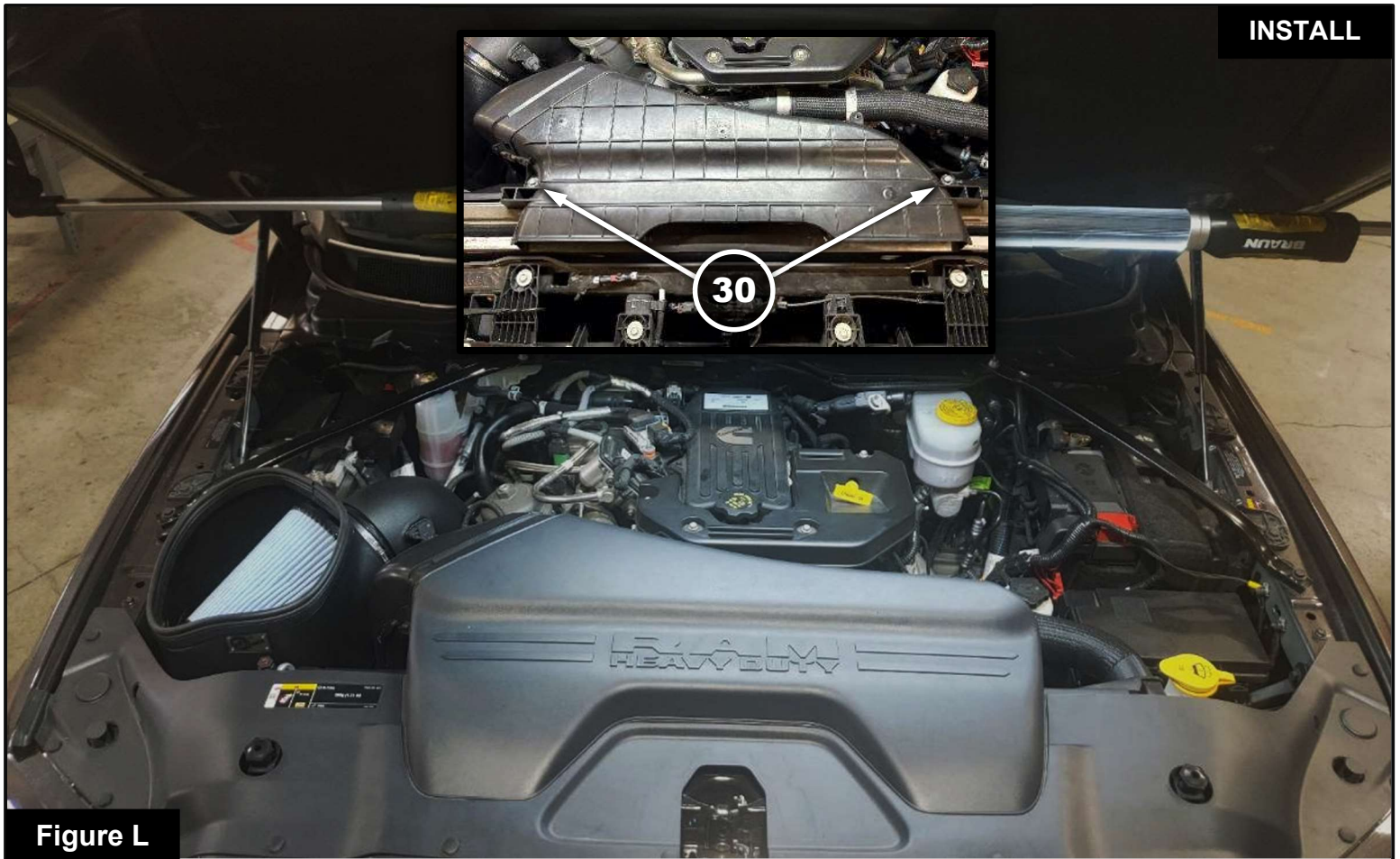
Step 49: Reinstall the air intake assembly in reverse order of removal.

Step 50: Reinstall the clamp to the turbocharger inlet; tighten to factory specification. (27)

Step 51: Reconnect the hose to the air intake tube. (28)

Step 52: Reconnect the IAT sensor (29)

Step 53: Reinstall any wiring harness clips removed during disassembly.



**Refer to Figure L for Steps 54-58**

Step 54: Reinstall the air intake scoop in the reverse order of removal and torque screws to factory specifications. (30)

Step 55: Reinstall the radiator cover in the reverse order of removal.

Step 56: Reconnect both negative battery cables.

Step 57: Start the vehicle and check for any air leaks, abnormal noises, or loose components.

Step 58: Installation is now complete.

**NOTE: Check that all clamps and connectors are secure after 100–200 miles.**



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