

advanced FLOW engineering Magnum FORCE Torque Booster Tube

Instruction Manual P/N: 54-81029

Make: Ford

Model: F-250/F-350/F-450/F-550

Year: 2003-2007

Engine: V8-6.0L (td)



- 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.

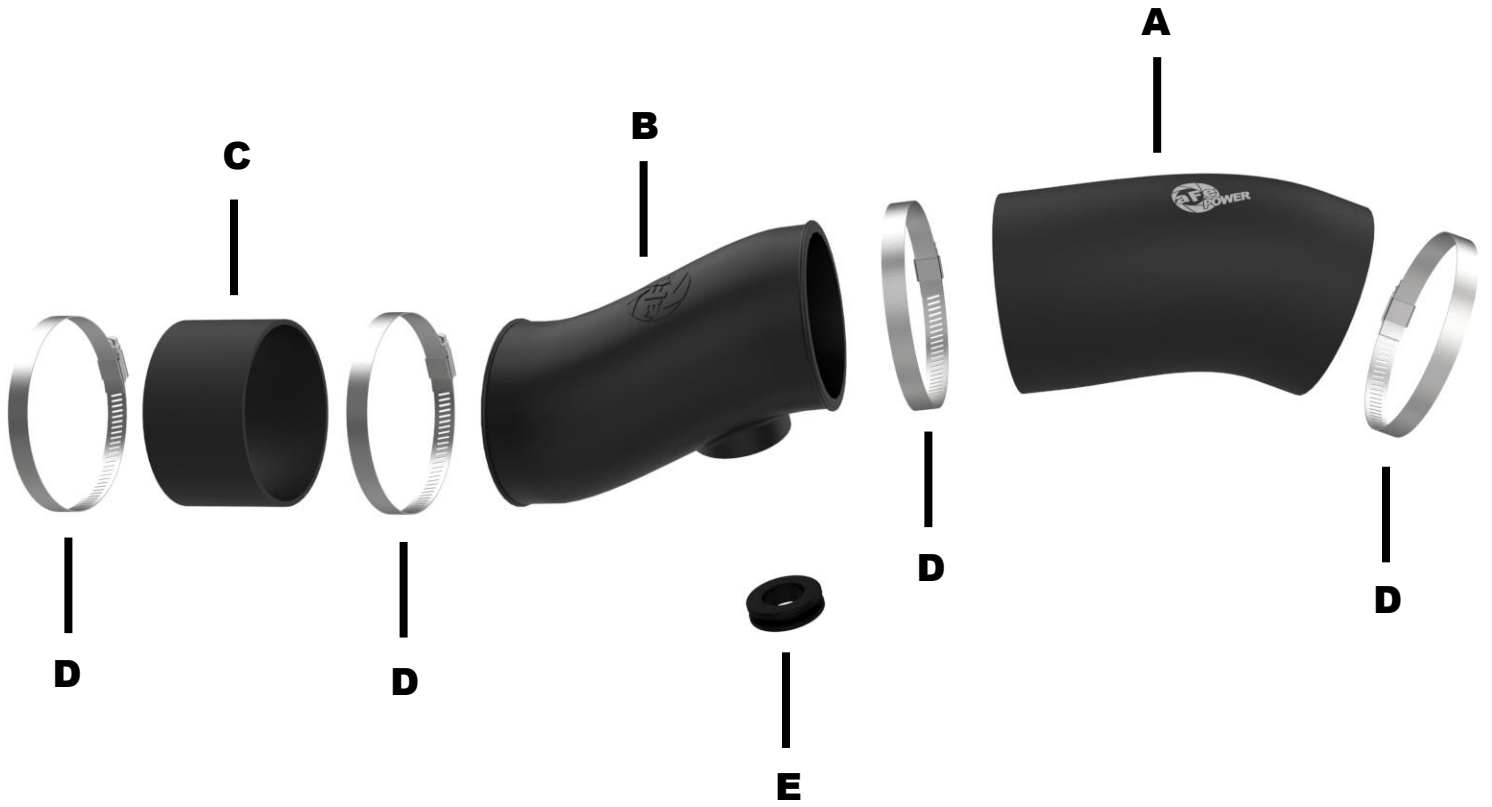
Label	Qty.	Description	Part Number
A	1	Coupling, Silicone Elbow: 4"ID x 33Deg	05-01597
B	1	Intake Tube	05-00847
C	1	Coupling, Straight: 4"ID x 2-1/2"L (Hi Temp)	05-00715
D	4	Clamp, 064 (2-1/2"- 4-1/2")	03-50006
E	1	Rubber Grommet	03-50139

Installation will require the following tools:

8mm nut driver, 10mm box-end wrench, 10mm socket and wrench, 11mm deep socket or hollow shaft nut driver, T20 Torx drivers, Needle-nose pliers, and 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 Steps 1-2**

Warning! Do not proceed until the vehicle has cooled down all the way.

Step 1: Using pliers to squeeze the spring clamp, disconnect the coolant reservoir overflow line and tuck it out of the way so that no fluid can leak out ①.

Step 2: Using pliers to squeeze the spring clamp, disconnect the bypass tube on the front of the intake housing ②.



Figure B

Refer to Figure B for Steps 3-5

Step 3: Disconnect the MAF sensor connector from the MAF sensor ③.

Step 4: Remove the filter minder from the side of the intake tube ④. you do not need to disconnect the wire harness from the sensor.

Step 5: Loosen the clamp from intake tube ⑤

**Figure C****Refer to Figure C for Steps 6-7**

Step 6: Remove the intake housing by pull straight up out of its mounting grommets and then tilting it up as shown. The housing can be removed as one piece or in multiple pieces if desired.

Step 7: Using an 8mm nut driver or flat-blade screw driver, loosen the clamp that connects the intake tube to the turbo charger ⑥

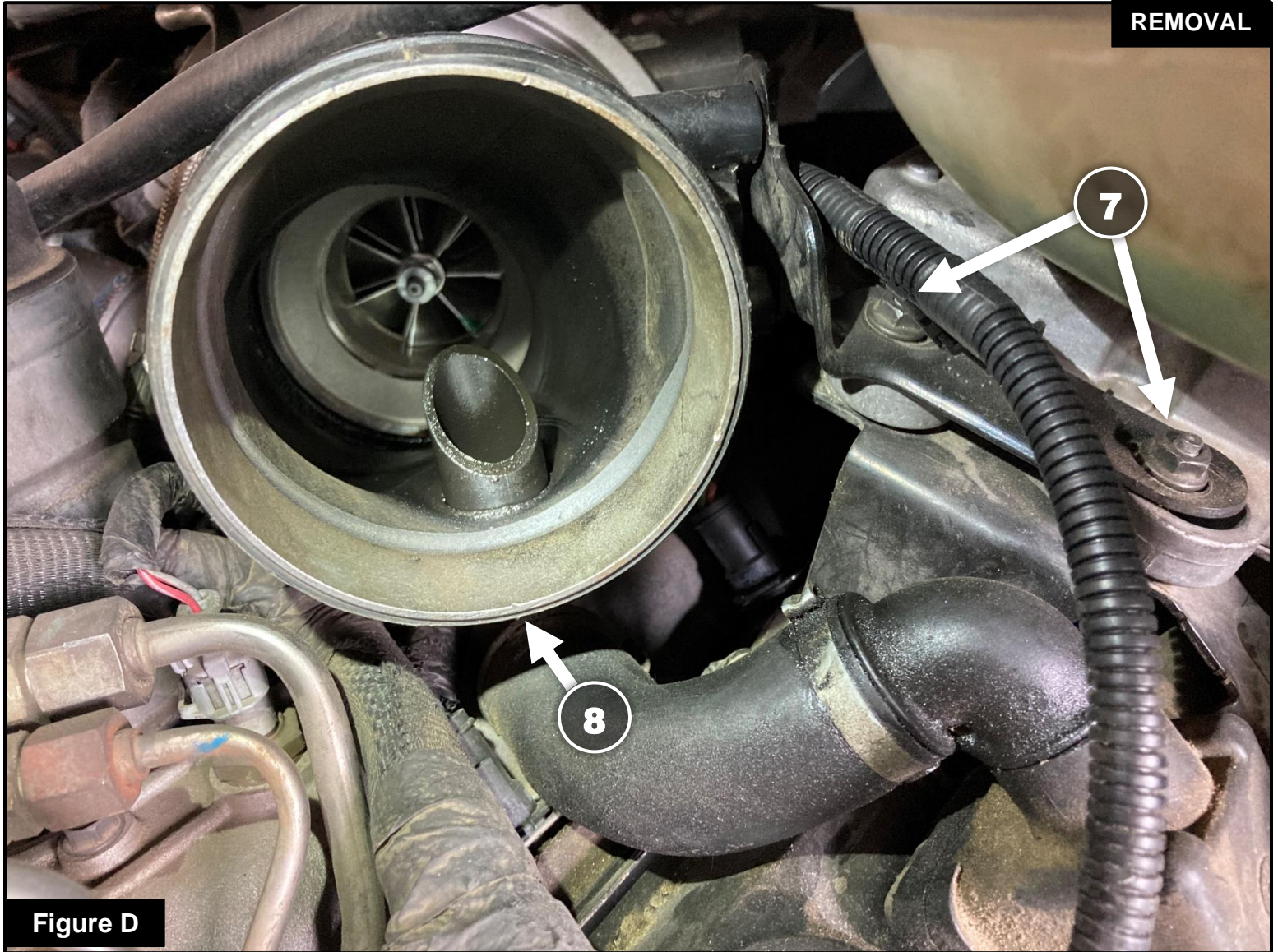


Figure D

Refer to Figure D for Steps 8-11

Step 8: Using a 10mm socket, remove the two nuts on the intake tube bracket (7).

Step 9: Pull up on the intake tube to expose the pinch clamp on the Crank Case Vent (CCV) line. Using pliers or a flat-blade screwdriver, pry the pinch clamp apart just far enough to remove the CCV line from the intake tube (8).

Step 10: Remove the intake tube from the vehicle.

Step 11: With the tube out of the vehicle, remove the mounting bracket from the intake tube. The bracket will need to be reinstalled to the engine in a later step.



Figure E

Refer to Figure E for Step 12

Step 12: Install the new large grommet into the the new aFe intake tube.



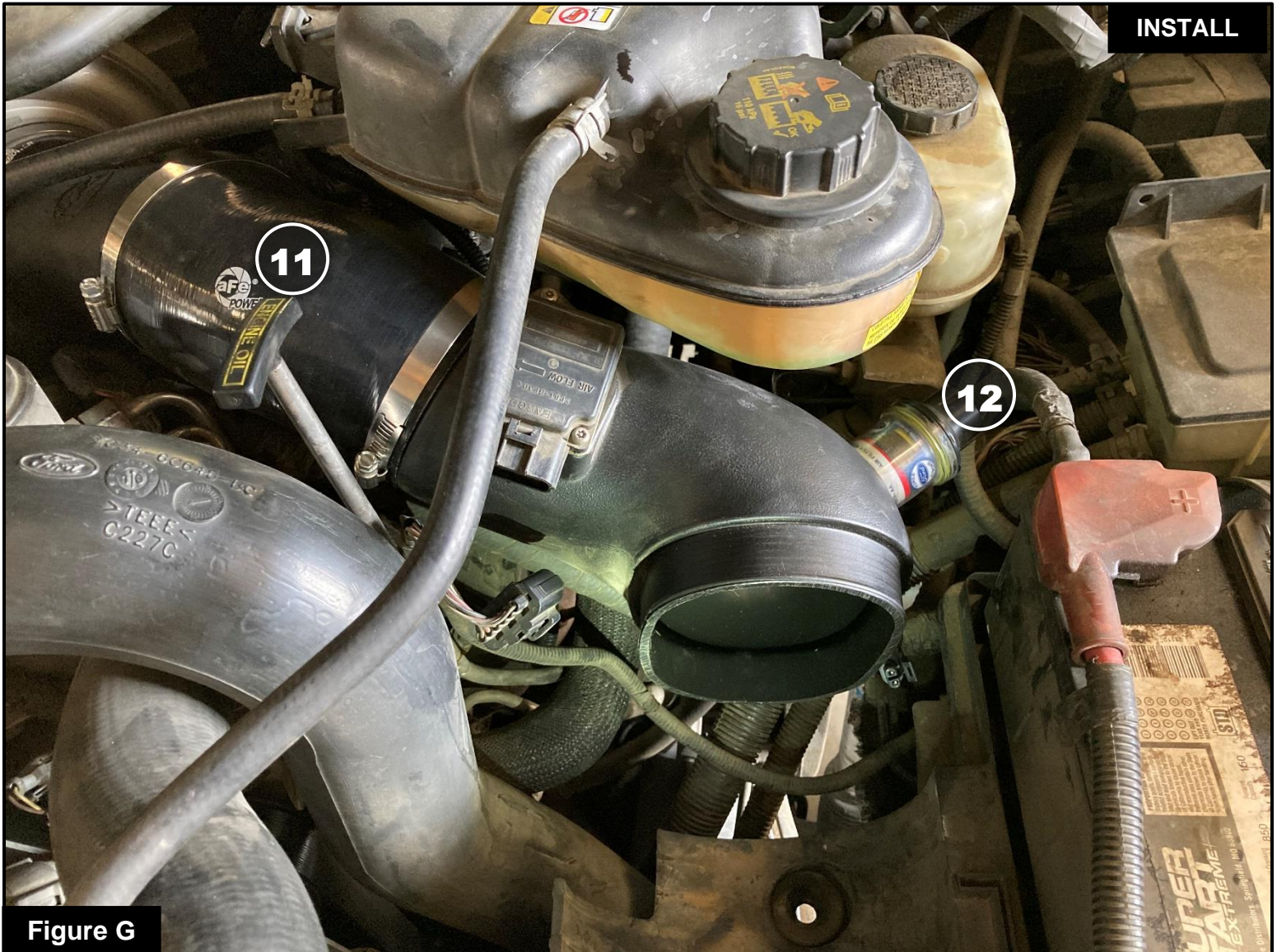
Figure F

Refer to Figure F for Steps 13-15

Step 13: Place two of the smaller clamps over the straight coupling provided.

Step 14: Install the straight coupling and clamps onto the turbo as shown ⑨.

Step 15: Install the shorter aFe intake tube into the coupling and then press the CCV line into the grommet on the bottom of the intake tube ⑩.

**Figure G****Refer to Figure G for Steps 16-19**

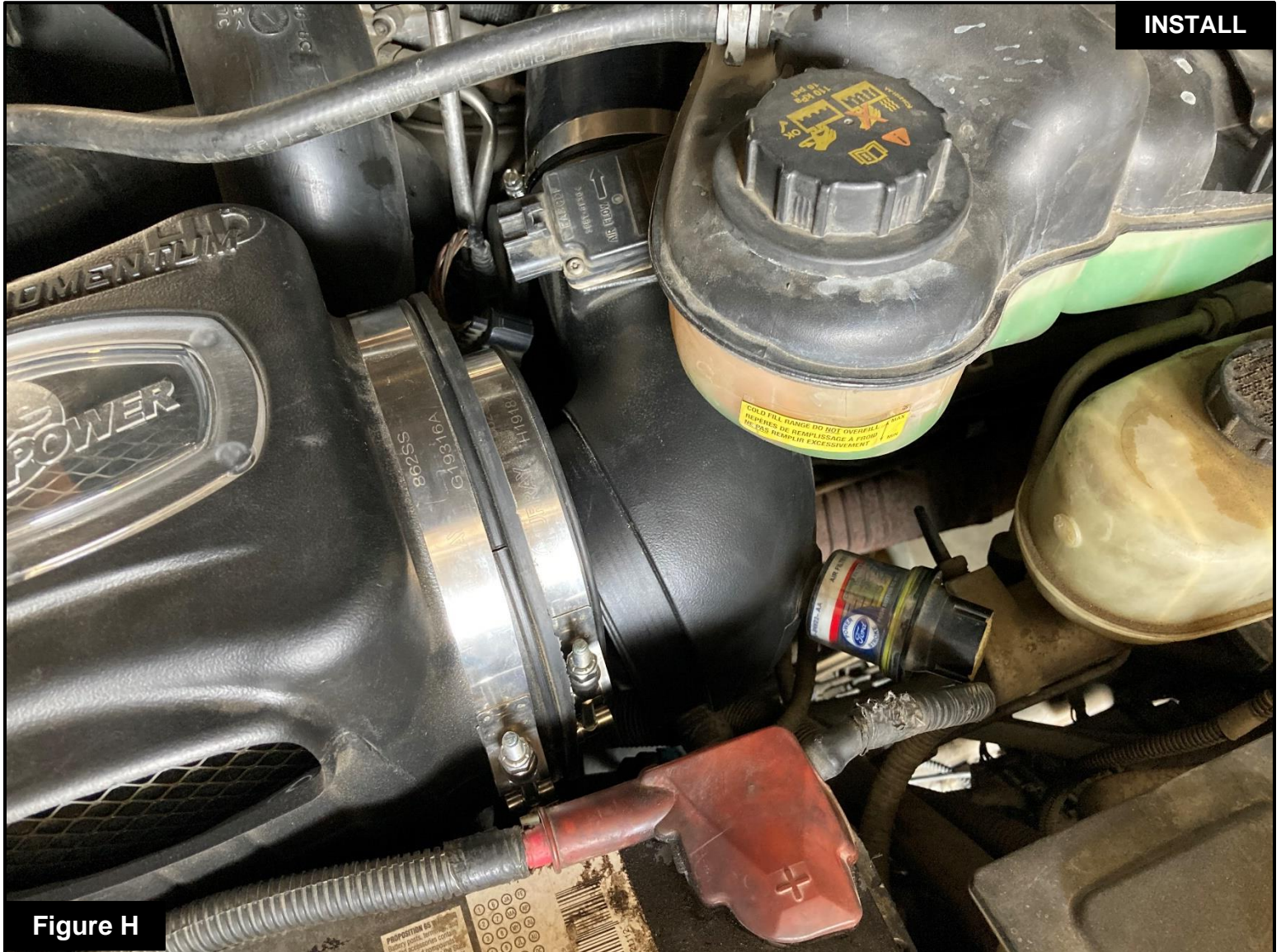
Step 16: Place two of the smaller clamps over the ends of the longer elbow coupling, and install the longer coupling onto the already installed aFe intake tube as shown (11).

NOTE: The following images show this product installed with an aFe intake, but this product works with the stock intake as well. These steps should be similar regardless of which intake is being reinstalled.

Step 17: Install the intake tube as shown, but do not tighten the clamps at this time.

Step 18: Install the filter minder into the grommet on the back side of the intake tube. If needed, hold the grommet from the inside of the intake tube so that it does not push through the hole on the tube (12).

Step 19: Reconnect the coolant overflow line and make sure the spring clamp is secure.

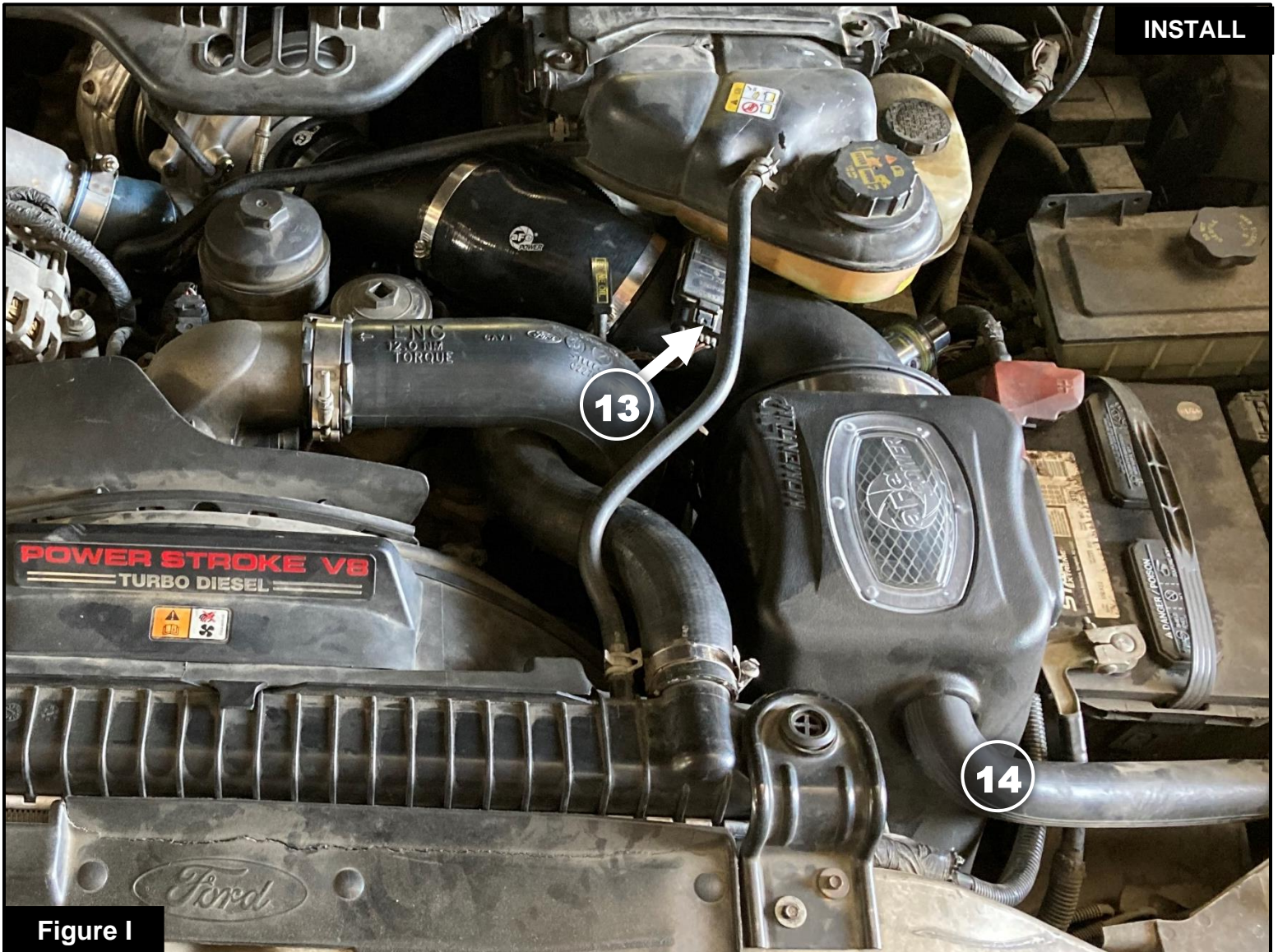


Refer to Figure H for Steps 20-22

Step 20: With all the clamps still loose, push the aFe intake tube underneath the coolant reservoir so there is room to install the aFe intake housing and air filter assembly.

Step 21: Install the aFe intake housing into the vehicle by dropping the front through the core support and then aligning the mounting pegs on the bottom of the housing with the mounting grommets on the mounting tray.

Step 22: Push the aFe intake tube into the aFe filter and position the tube so that it does not touch the coolant reservoir.

**Figure I****Refer to Figure I for Steps 23-26**

Step 23: Tighten all (4) clamps at this time plus any clamps located on the intake track.

Step 24: Reconnect the MAF sensor harness to the MAF sensor (13) .

Step 25: Reconnect the breather hose to the front of the aFe housing or stock housing as shown (14) .

Step 26: Check all the components are tight and secure. Your installation is now complete. Thank you for choosing aFe POWER!

NOTE: Check all screws, clamps, and connectors are secure after 100-200 miles.



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