

advanced FLOW engineering BladeRunner – Cold Side Charge Pipe Kit
Instruction Manual P/N: 46-20059-B

Make: GMC	Model: Sierra HD	Year: 2006-2007	Engine: V8-6.6L (td) LBZ
Make: Chevrolet	Model: Silverado HD	Year: 2006-2007	Engine: V8-6.6L (td) LBZ
Make: GMC	Model: Sierra HD	Year: 2007.5-2010	Engine: V8-6.6L (td) LMM
Make: Chevrolet	Model: Silverado HD	Year: 2007.5-2010	Engine: V8-6.6L (td) LMM



- 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, Cold Side Upper: 46-20059	05-61546B-1
B	1	Ea.	Tube, Cold Side Lower: 46-20059	05-61546B-2
C	1	Ea.	Coupling, Silicone Hump: 3-1/2"ID x 4"L	05-60025
D	2	Ea.	Clamp, Spring Loaded T-Bolt: (3.75" - 4") (ss)	05-60024
E	2	Ea.	O-Ring, Buna-N (-340)	05-61587
F	1	Ea.	Plug, Hex Hd Socket: 1/8" NPT (Zn Plt)	03-50029

Installation will require the following tools:

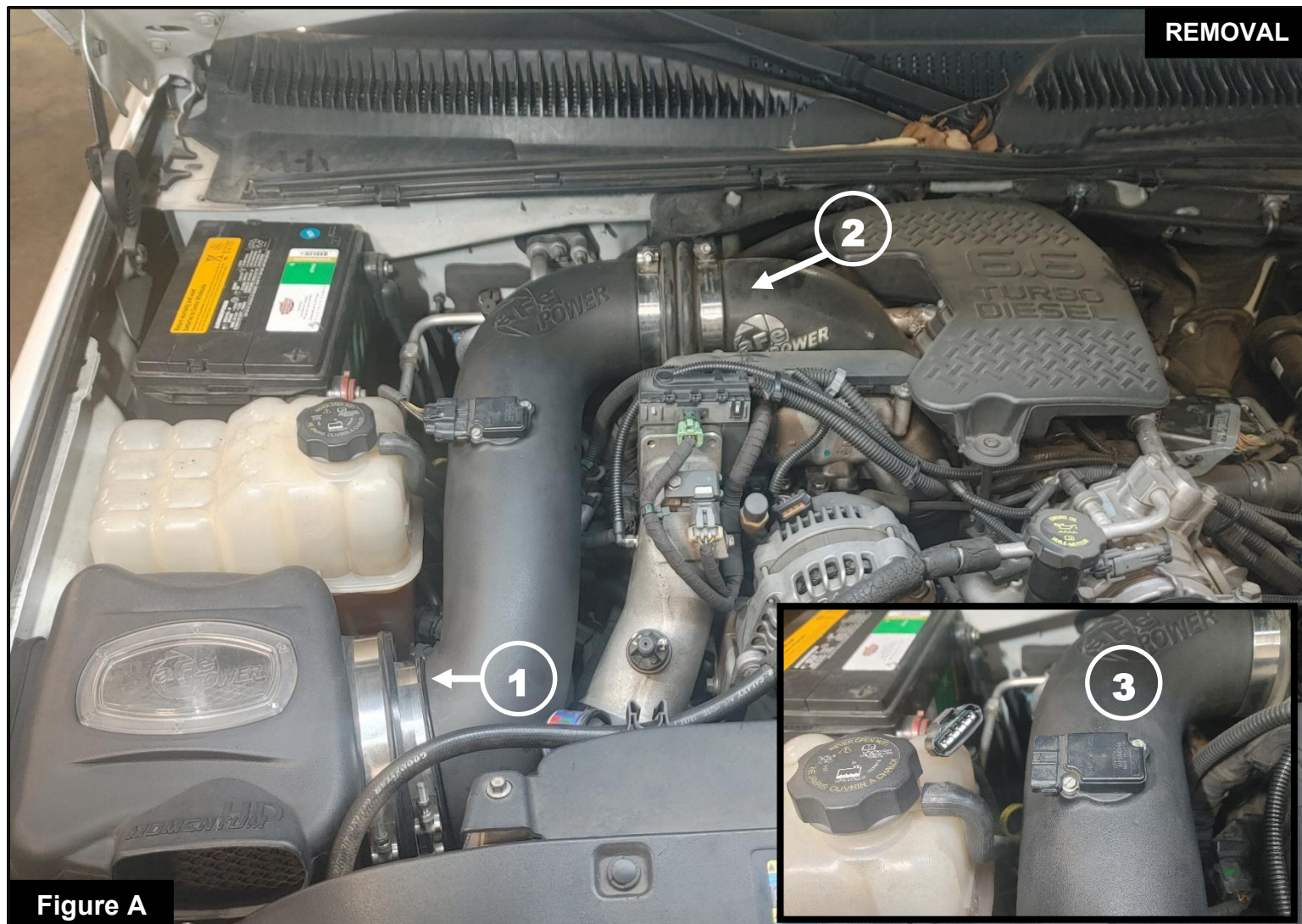
Torque wrench, 1/4" rachet, 6" extension, 7/16" deep socket, 8mm deep socket, 10mm socket, hook pick, trim removal tool, thread sealant, silicone grease.

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>





Refer to Figure A for Steps 1-6

Step 1: Disconnect both negative battery cables from the negative battery terminals.

Step 2: Loosen the clamp for the air intake tube on the air filter housing. ①

Step 3: Loosen the clamp for the air intake tube on the turbocharger. ②

Step 4: Disconnect the electrical connector to the MAF/IAT sensor in the intake tube. ③

Step 5: Remove the air intake tube from the vehicle.

Step 6: Remove air filter housing from the vehicle.

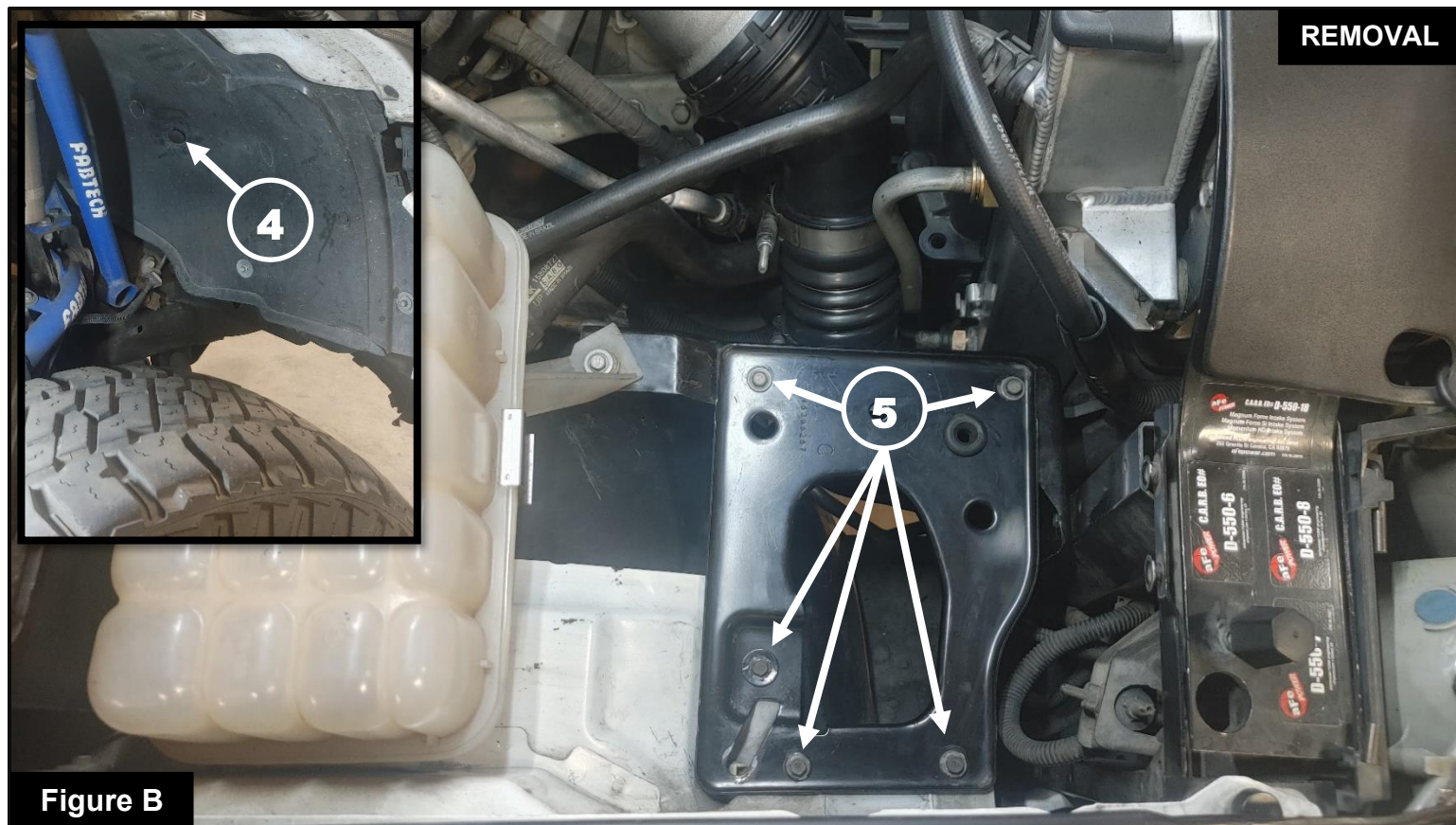


Figure B

Refer to Figure B for Steps 7-9

Step 7: Remove the fender clip attaching the air filter housing tray bracket to the fender liner. ④

Step 8: Remove the screws attaching the air filter housing tray to the vertical support bracket and fender liner. ⑤

Step 9: Remove the air filter housing tray from the vehicle.

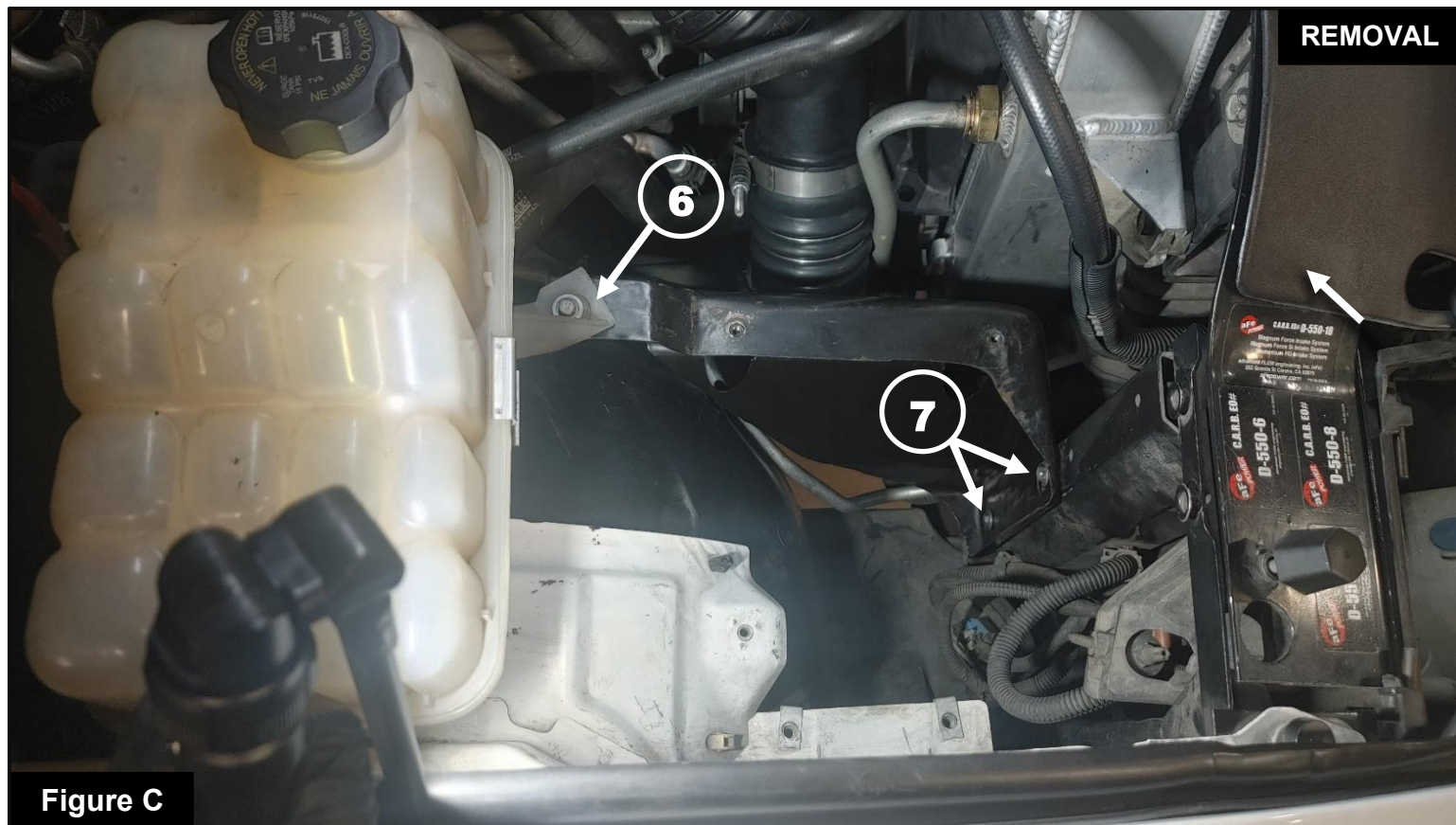


Figure C

Refer to Figure C for Steps 10-12

Step 10: Remove the screw attaching the coolant surge tank to the vertical support bracket. ⑥

Step 11: Loosen the two screws attaching the vertical support bracket to the core support. ⑦

Step 12: Once loose, pull the vertical support bracket up and then pull away from the mounting surface to remove it from the vehicle.

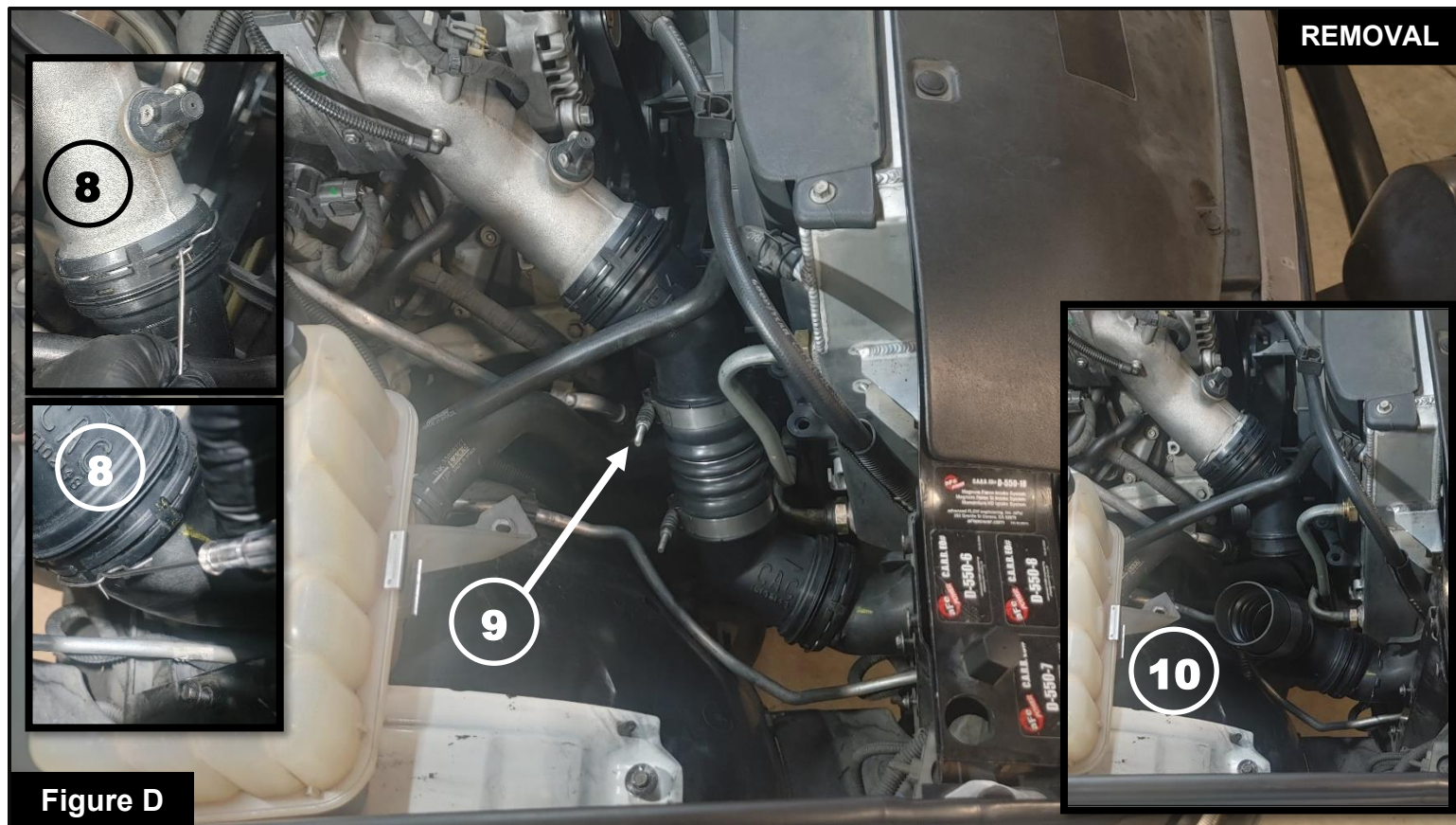


Figure D

Refer to Figure D for Steps 13-17

Step 13: Remove the retaining clips for both charge pipe connections. (8)

Step 14: Loosen the stock upper clamp attaching the stock upper charge pipe and stock coupler. (9)

Step 15: Rotate the stock coupler and stock lower charge pipe down for clearance. (10)

Step 16: Remove the stock upper charge pipe.

Step 17: Remove the stock lower charge pipe with the attached stock coupler.

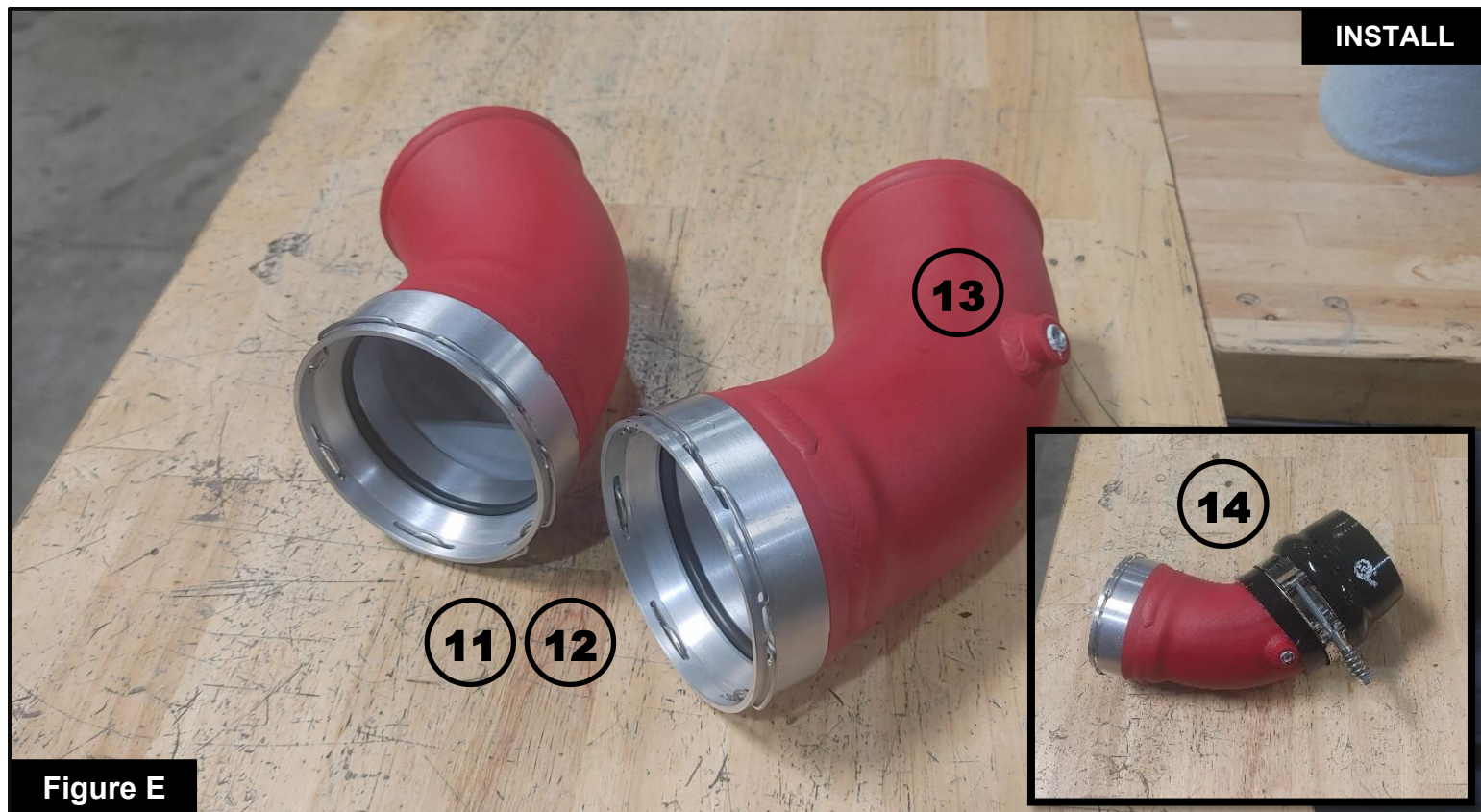


Figure E

Refer to Figure E for Steps 18-21

Note: The retaining clips will need to be removed from the stock charge pipes for reuse with the aFe POWER charge pipes.

Step 18: Install the stock retaining clips to the aFe POWER cold side charge pipes. (11)

Note: Be sure to lubricate the O-ring with grease to prevent it from tearing during installation.

Step 19: Install the (-340) O-Rings into the grooves of the aFe POWER cold side charge pipes. (12)

Note: Be sure to use thread sealant on the plug or sensor to prevent any leaking.

Step 20: 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 lower charge pipe (13)

Step 21: Install the 3-1/2" x 4"L coupling with a 3.75" - 4" spring loaded T-Bolt Clamp onto the aFe POWER cold side lower charge pipe up to the welded NPT port; leave the clamp loose. (14)

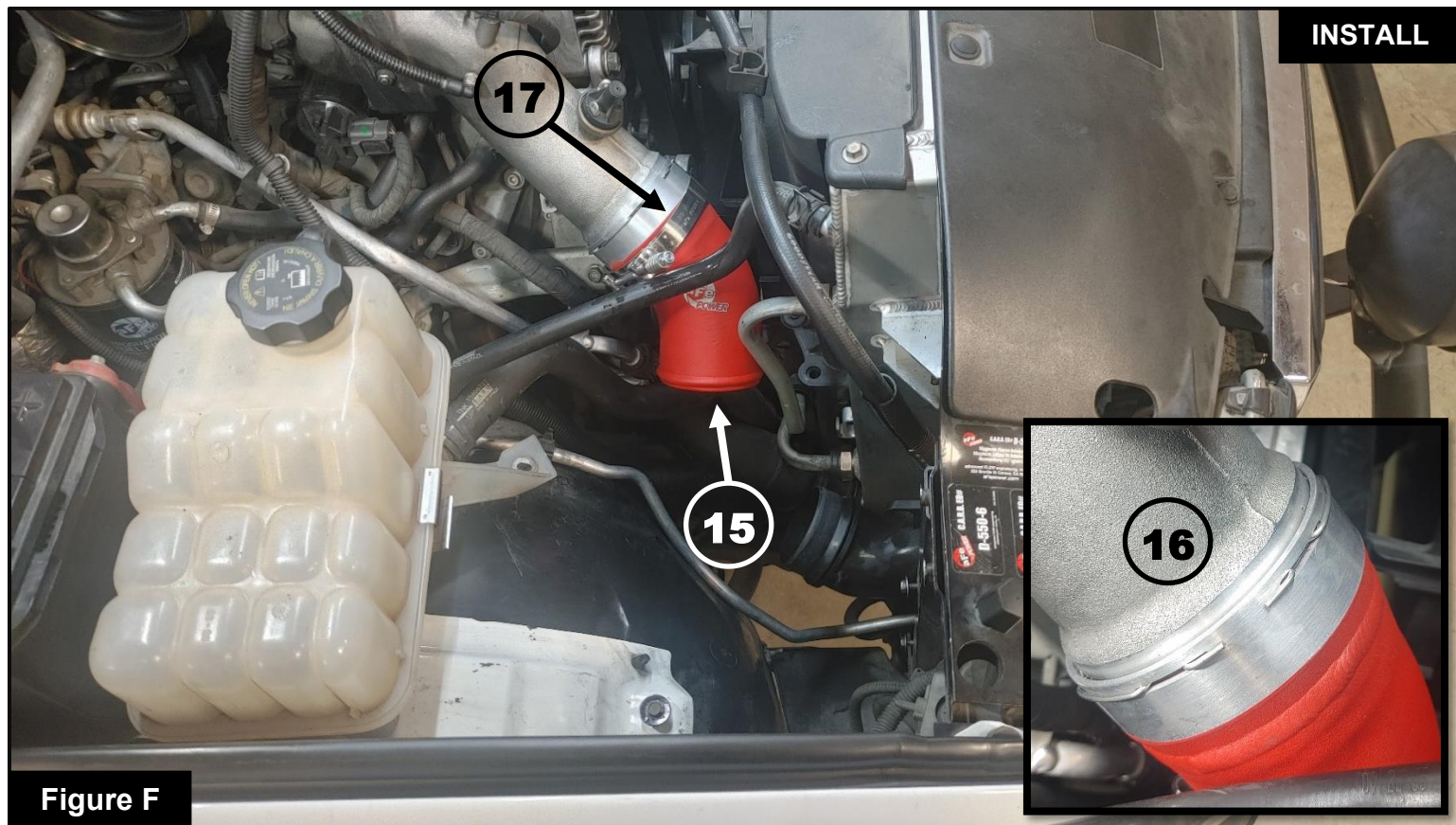


Figure F

Refer to Figure F for Steps 22-24

Step 22: Install the aFe POWER cold side upper charge pipe by pushing the connector onto the intake manifold until the retaining clip snaps into place and in the orientation shown in FIGURE F. (15)

Step 23: Verify that the clip is sitting flush in the groove encircling the intake manifold at all points. (16)

Step 24: Install the remaining 3.75" - 4" spring loaded T-Bolt Clamp; leave the clamp loose and rest it out of the way for now. (17)

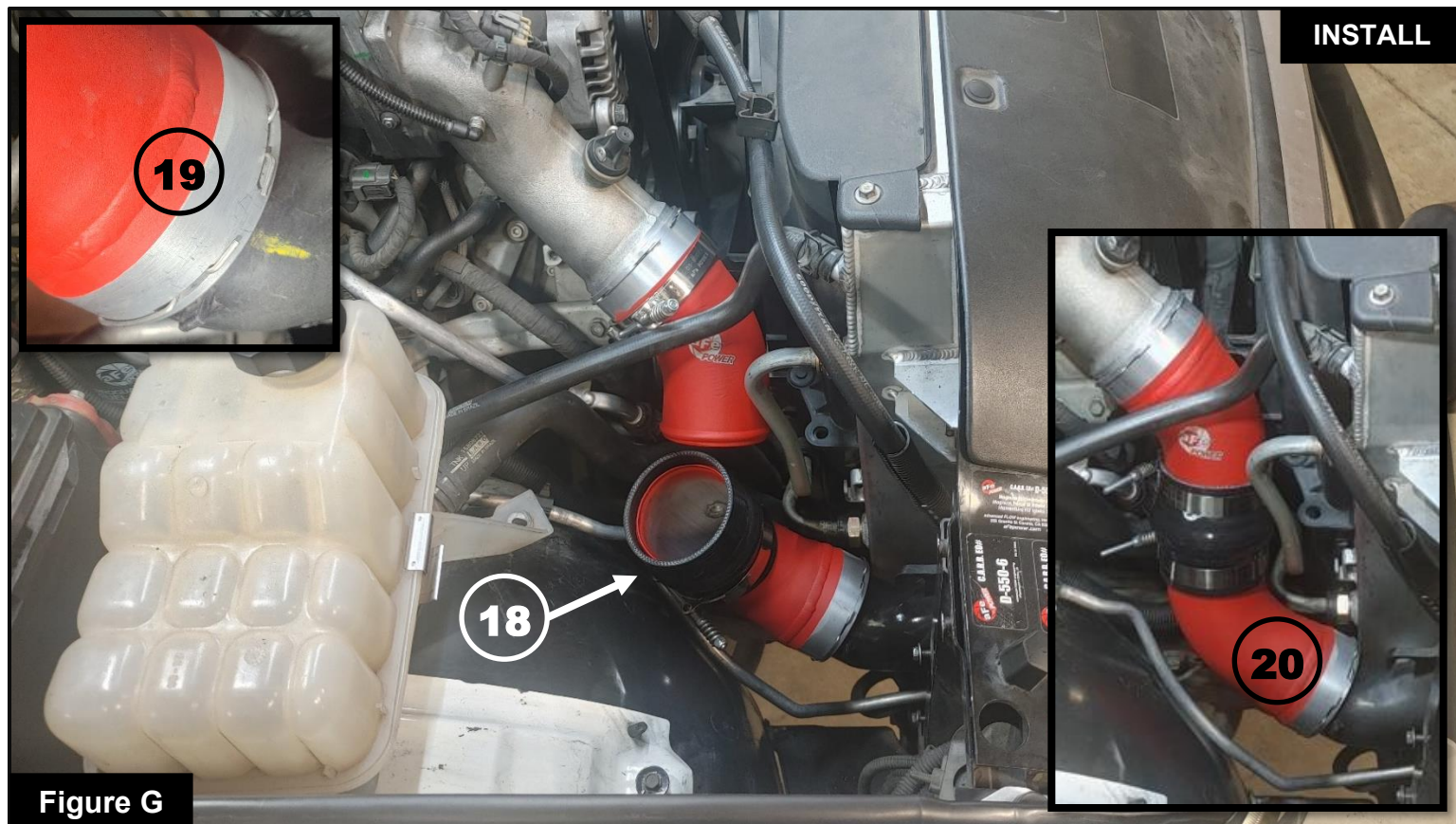


Figure G

Refer to Figure G for Steps 25-29

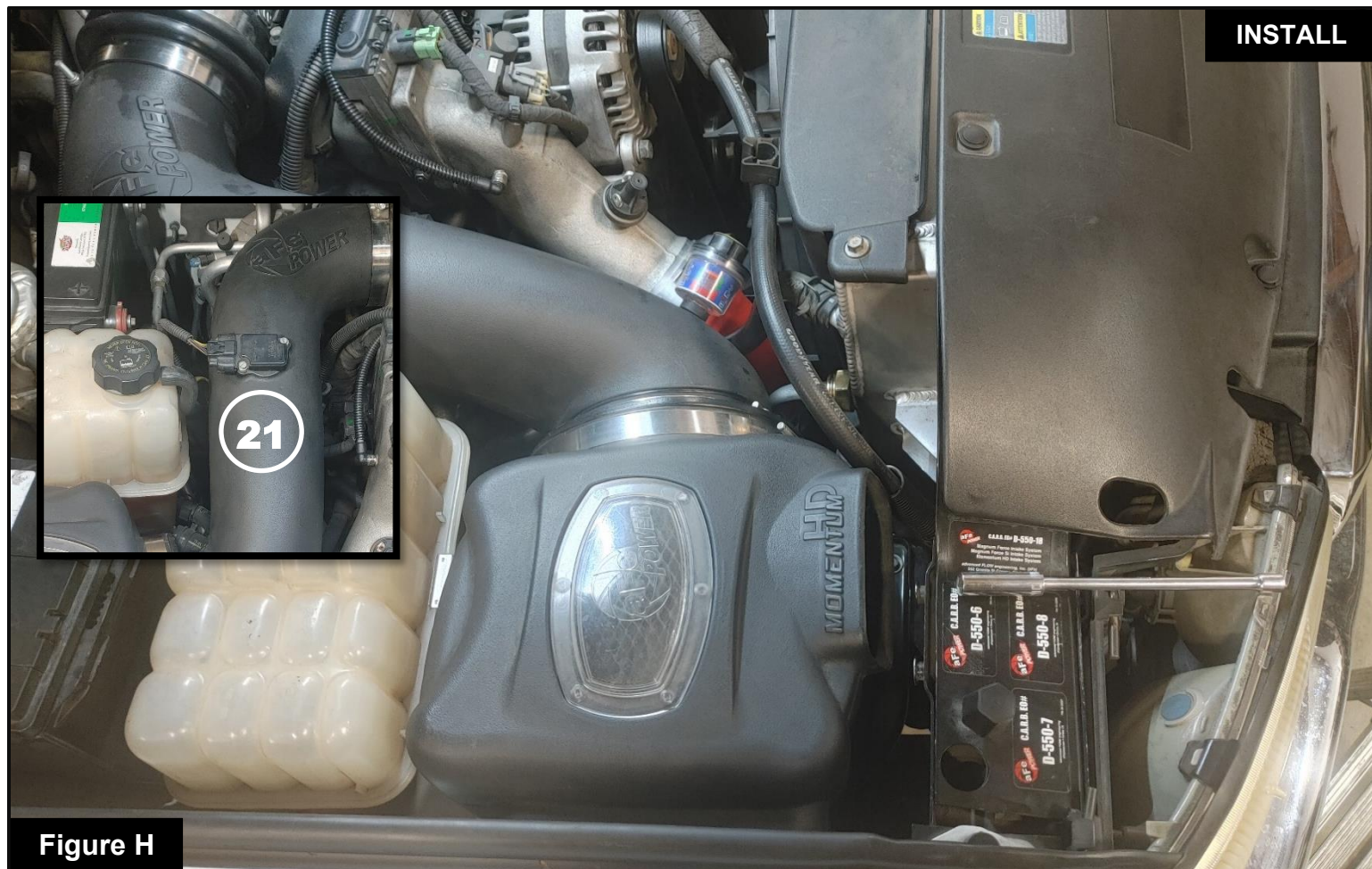
Step 25: Install the aFe POWER cold side lower charge pipe, with coupler and clamp, by pushing the connector onto the stock intercooler outlet until the retaining clip snaps into place and in the orientation shown in FIGURE G. (18)

Step 26: Verify that the clip is sitting flush in the groove encircling the intercooler outlet at all points. (19)

Step 27: Rotate the aFe POWER cold side lower charge pipe to align with the upper charge pipe

Step 28: Slide the coupler onto the upper charge pipe. (20)

Step 29: Torque all spring-loaded T-Bolt clamps to 10 Ft-lbs. or until the spring is completely collapsed.



Refer to Figure E for Steps 30-36

Step 30: Reinstall the vertical support

Step 31: Reinstall the air filter housing tray.

Step 32: Reinstall the air filter housing assembly.

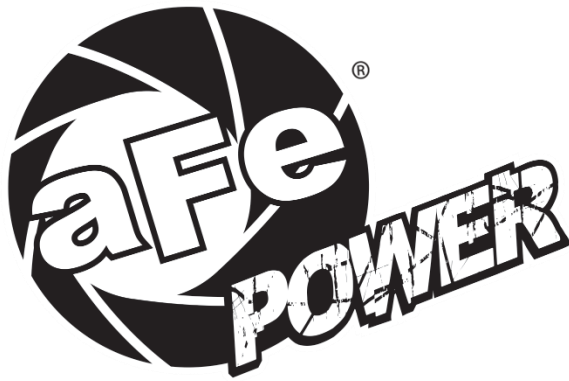
Step 33: Reinstall the air intake tube; tighten clamps to manufacturer's specification.

Step 34: Reconnect the electrical connector for the MAF/IAT sensor on the intake tube. (21)

Step 35: Reconnect both negative battery cables to the negative battery terminals.

Step 36: Your Installation is now complete!

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



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