



advanced FLOW engineering BladeRunner – Hot Side Charge Pipe Kit

**Instruction Manual** P/N: 46-20448-B

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Make: <b>GMC</b>	Model: <b>Sierra 2500</b>	Year: <b>2020+</b>	Engine: <b>V8-6.6L (td)</b>
Make: <b>GMC</b>	Model: <b>Sierra 3500</b>	Year: <b>2020+</b>	Engine: <b>V8-6.6L (td)</b>
Make: <b>Chevrolet</b>	Model: <b>Silverado 2500</b>	Year: <b>2020+</b>	Engine: <b>V8-6.6L (td)</b>
Make: <b>Chevrolet</b>	Model: <b>Silverado 3500</b>	Year: <b>2020+</b>	Engine: <b>V8-6.6L (td)</b>



- Professional installation is recommended for this aFe POWER product.
- 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.

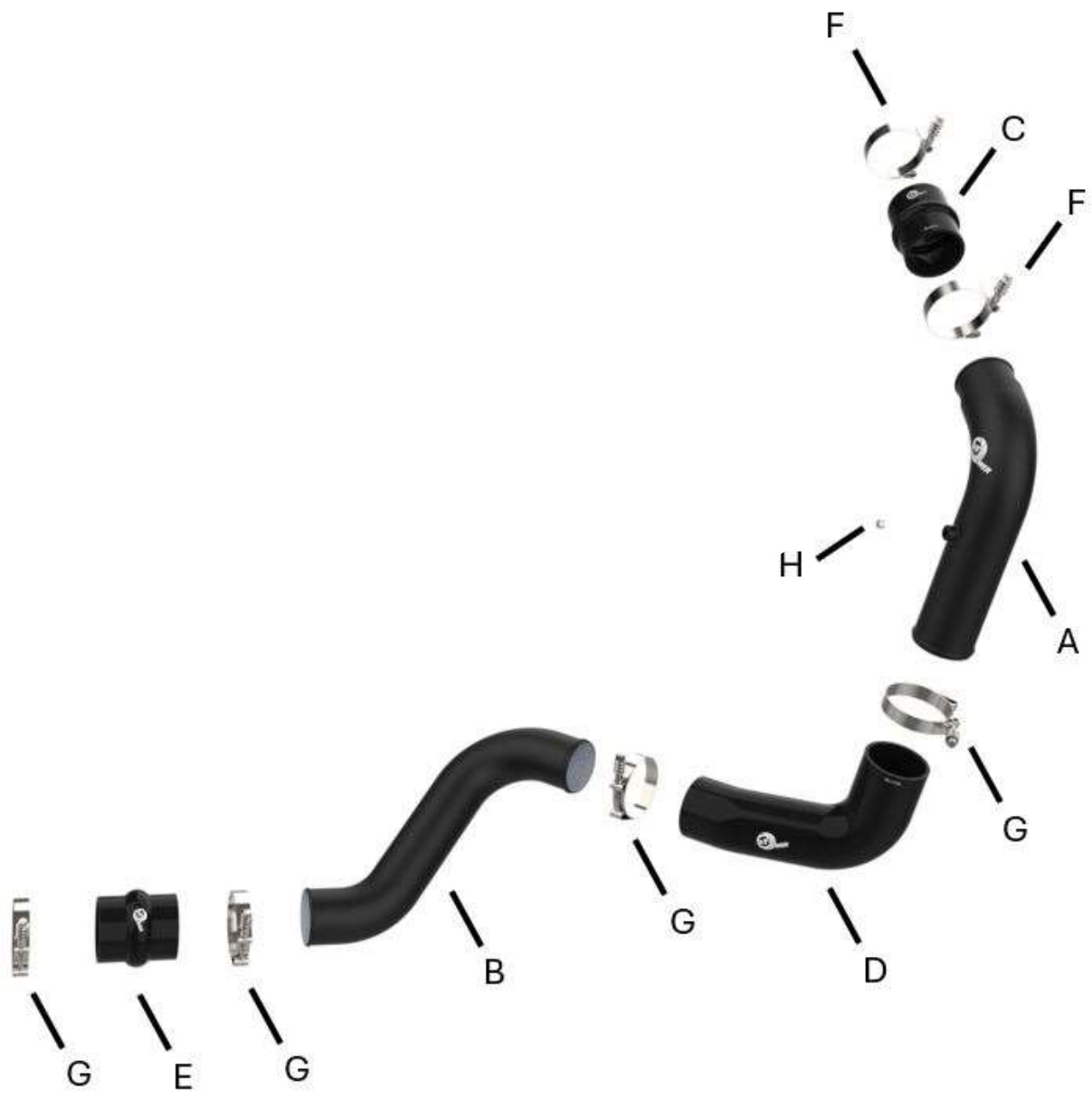
Label	Qty.	UoM	Description	Part Number
A	1	Ea.	Tube, Hot Side Upper: 46-20444-B	05-61138B
B	1	Ea.	Tube, Hot Side Lower: 46-20444-B	05-61139B
C	1	Ea.	Coupling, Silicone Hump: 2-3/4"ID x 4"L	05-60216
D	1	Ea.	Coupling, Silicone Elbow: 3" x 80 Deg x 30 Deg	05-61122
E	1	Ea.	Coupling, Silicone Hump: 3"ID x 4"L	05-60012
F	2	Ea.	Clamp, Spring Loaded T-Bolt: 3"- 3.25" Dia	05-60435
G	4	Ea.	Clamp, Spring Loaded T-Bolt: 3.25"- 3.50" Dia	03-50530
H	1	Ea.	Plug, Hex Hd Socket: 1/8" NPT (Zn Plt)	03-50029

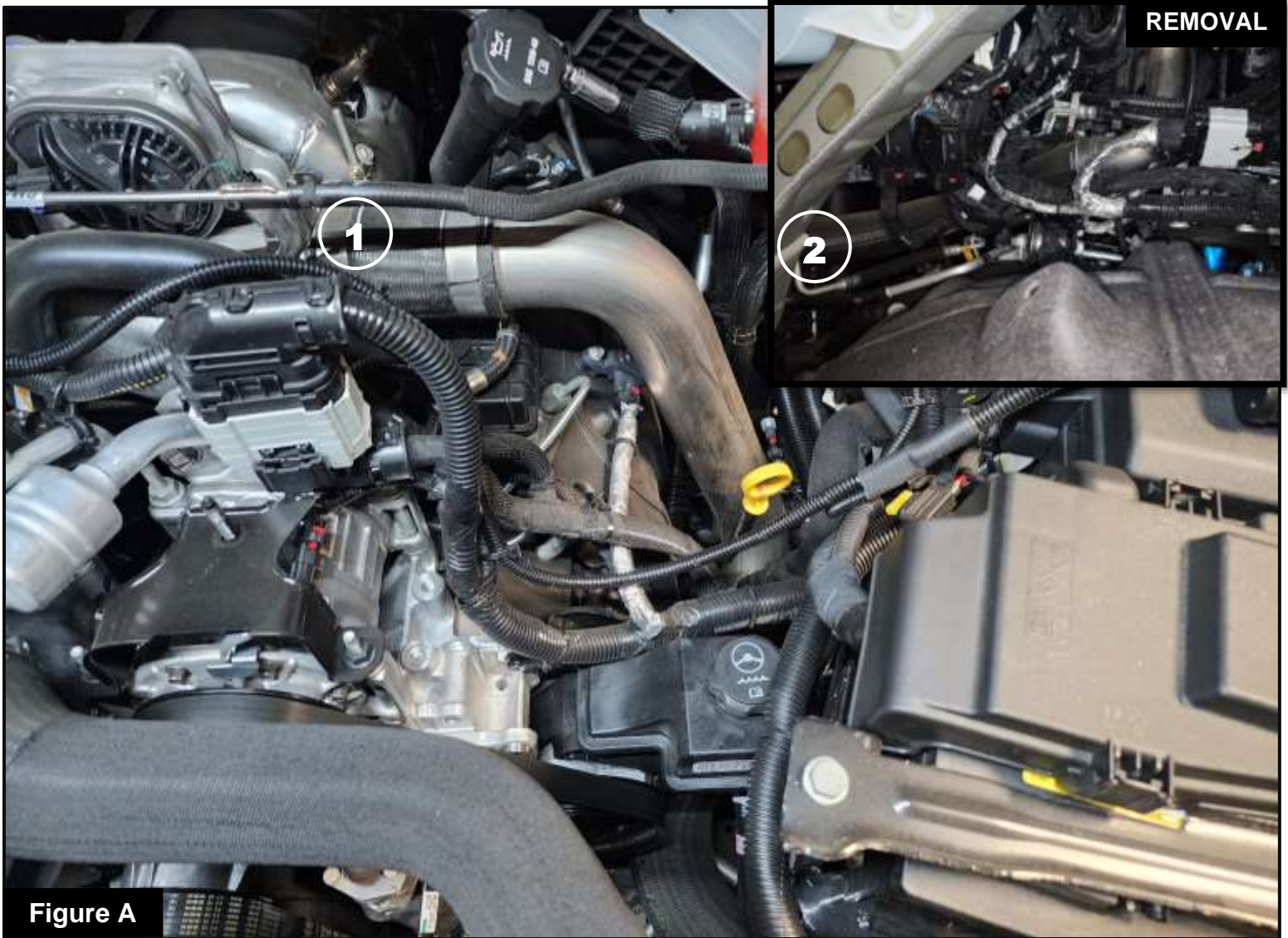
**Installation will require the following tools:**

7mm socket, 7/16 socket, 3/16" allen wrench, 24" extension, ratchet, pick, & thread sealant

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 1-6**

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

Step 2: Disconnect the negative battery cables.

**It may be necessary to use a pick to break the connection between the charge pipe couplings and the vehicle in order to disconnect the couplings.**

Step 3: Loosen the clamp securing the turbo outlet coupling to the turbo ① and disconnect the coupling from the turbo.

Step 4: Remove the screws securing the front driver side inner fender liner and remove it from the vehicle

Step 5: Loosen the clamp securing the factory hot side charge pipe hose to the intercooler inlet ② and disconnect the hose from the intercooler.

Step 6: Remove the hot side charge pipe from the top of the vehicle.

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

***Note: Be sure to use thread sealant on the plugs or sensors to prevent any leaking.***

Step 7: If you are not using any aftermarket sensors, install the 1/8" NPT plug (3) into the threaded fitting on the upper aFe hot side charge pipe.

Step 8: Install the aFe silicone hump coupling, 2-3/4"ID x 4"L, and one of the supplied 3" spring-loaded T-Bolt clamps onto the reduced end of the upper aFe hot side charge pipe (4)

**Figure C****Refer to Figure C for Steps 9-11**

**Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe couplings onto the vehicle.**

Step 9: Install the supplied aFe silicone hump coupling, 3"ID x 4"L, and two of the supplied 3.25" spring-loaded T-Bolt clamps onto the inlet of the intercooler on the driver side of the vehicle ⑤ through the wheel well, do not tighten the clamps yet.

Step 10: Install the lower hot side charge pipe into the vehicle ⑥ through the wheel well and connect it to the coupling from the previous step, do not tighten the clamp yet.

Step 11: Install the supplied aFe silicone elbow coupling, 3"ID x 80 Deg x 30 Deg, and two more of the supplied 3.25" spring-loaded T-Bolt clamps onto the opposing end of the lower charge pipe ⑦ from the previous step, do not tighten the clamps yet.

**Figure D****Refer to Figure D for Steps 12-16**

***Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe couplings onto the vehicle.***

Step 12: Install the aFe upper hot side charge pipe with the coupling from Step 8 into the vehicle ⑧ connecting it to the coupling from the previous step and the turbo outlet.

Step 13: Ensure the aFe hot side charge pipes are not touching anything and tighten all of the clamps.

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

Step 14: Reinstall driver side fender liner.

Step 15: Reconnect the negative battery cables.

Step 16: Install is now complete.

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



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