



advanced FLOW engineering BladeRunner – Hot Side Charge Pipe Kit

Instruction Manual P/N: 46-20498-B

Make: RAM

Model: 1500

Year: 2016-2019

Engine: V6-3.0L (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 Lower: 46-20498 | 05-61441B |
| B | 1 | Ea. | Coupling, Silicone Reducer: (2.5" x 2.13")ID x 3"L | 05-61442 |
| C | 1 | Ea. | Coupling, Silicone Elb Rdr: (3" x 2.375")ID x 45 Deg | 05-60432 |
| D | 1 | Ea. | Clamp, Spring Loaded T-Bolt: (3.25" - 3.5") (ss) | 03-50530 |
| E | 1 | Ea. | Clamp, Spring Loaded T-Bolt: (2.75" - 3") (ss) | 05-60039 |
| F | 1 | Ea. | Clamp, Spring Loaded T-Bolt: (2.5" - 2.75") (ss) | 03-50560 |
| G | 1 | Ea. | Clamp, Spring Loaded T-Bolt: (2.375"-2.625") (ss) | 03-50570 |
| H | 1 | Ea. | Plug, Hex Hd Socket: 1/8" NPT (Zn Plt) | 03-50029 |

Installation will require the following tools:

7mm, 7/16 sockets, 3/16" allen, extensions, ratchet, flat screwdriver, pannel popper, pick, teflon tape, grease.

Warranty Information available at <https://afepower.com/contact#warranty>

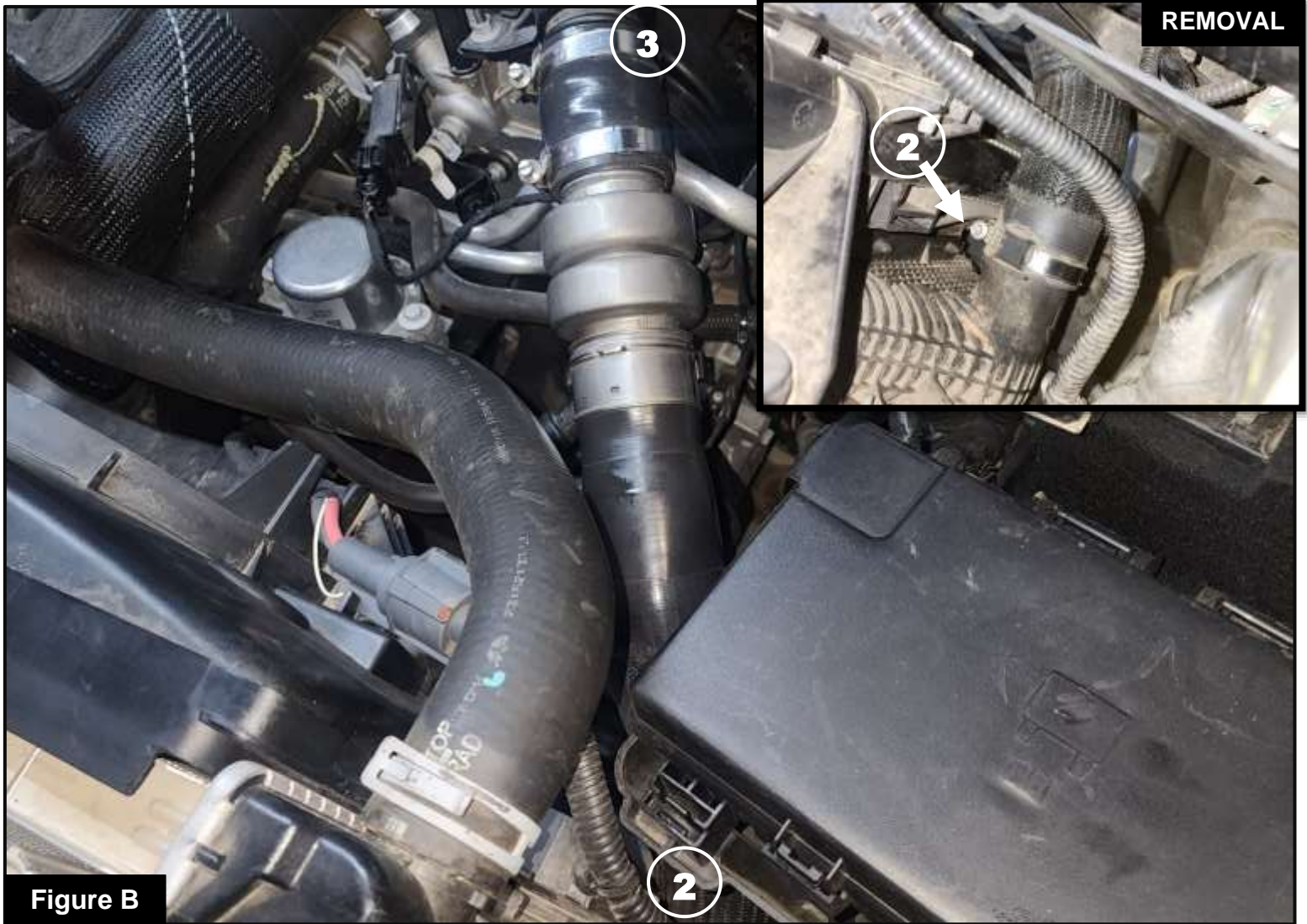
Emissions Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.



**Figure A****Refer to Figure A for Steps 1-2**

Step 1: Disconnect the negative battery cable.

Step 2: Remove the engine cover from the vehicle (1). Do this by lifting the front up then sliding it forward out of the rear mounts.



Refer to Figure B for Steps 3-4

Step 3: Loosen the clamp securing the hot side charge pipe onto the intercooler inlet (2)

Step 4: Loosen the clamp securing the hot side charge pipe onto the upper hot side charge pipe, then remove the factory hot side charge pipe from the vehicle (3).

**Figure C**

Refer to Figure C for Steps 5-7

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

Step 5: If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug into the threaded fitting on the aFe POWER lower hot side charge pipe (4).

Step 6: Install the supplied aFe POWER silicone reducer coupling, 2.50" x 2.13" x 3"L and the 3" spring loaded T-Bolt clamp onto the hot side charge pipe (5), do not tighten the clamp yet.

Step 7: Place the supplied 2.625" spring loaded T-Bolt clamp onto the end of the coupling from the previous step (6), do not tighten the clamp yet.

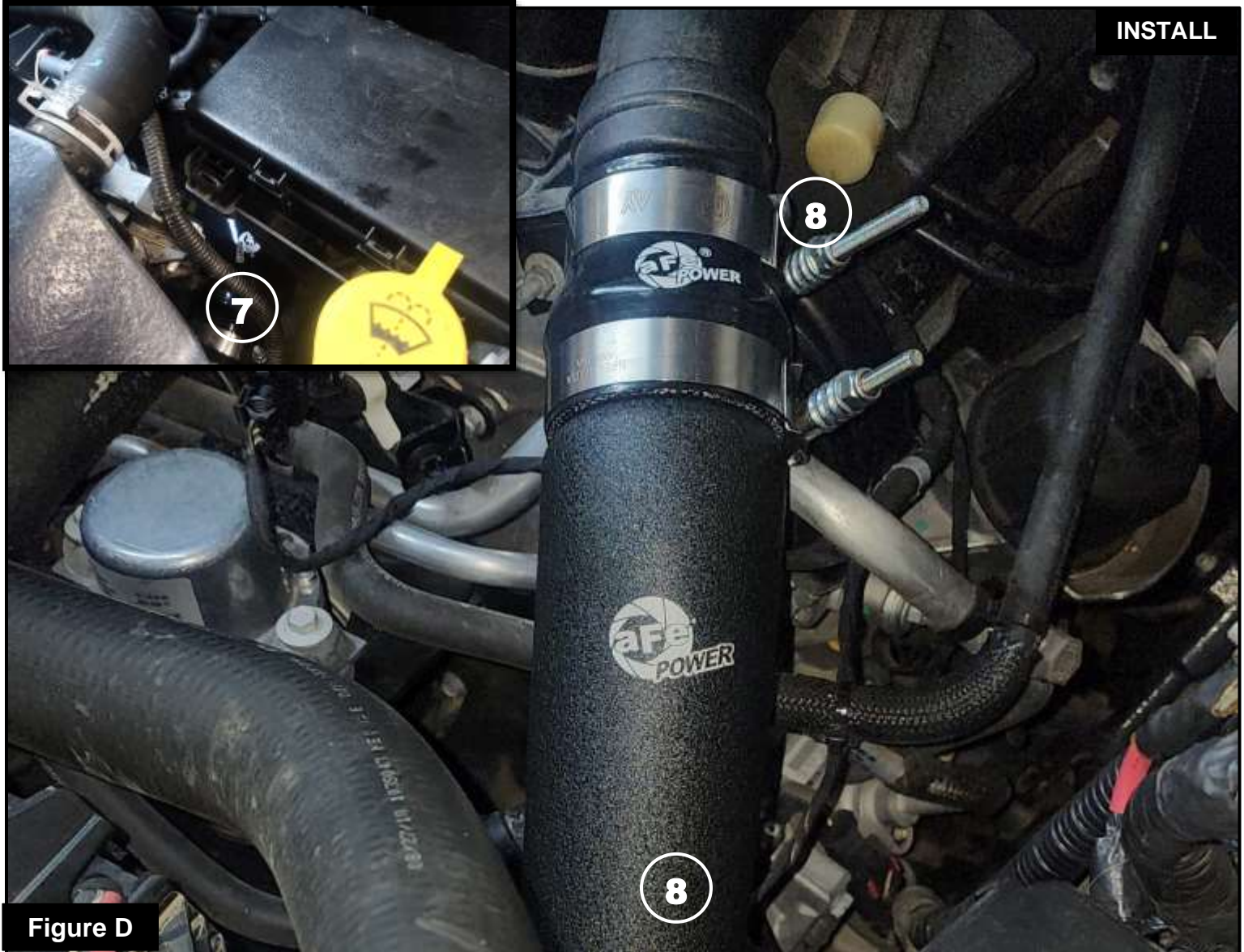


Figure D

Refer to Figure D for Steps 8-9

Step 8: Install the supplied aFe POWER silicone elbow reducer coupling, (3" x 2.375")ID x 45 Deg, with one supplied 2.75" spring loaded spring loaded T-Bolt clamp onto the intercooler inlet (7) do not tighten the clamp yet.

Step 9: Install the aFe POWER lower hot side charge pipe into the vehicle by first connecting to the coupling from the previous step and then to the upper hot side charge pipe (8) do not tighten the clamps yet.



Refer to Figure E for Steps 10-13

Step 10: Ensure all of the aFe POWER charge pipes are not touching anything, then tighten all of the clamps.

Step 11: Reinstall the engine cover onto the vehicle ⑨

Step 12: Reconnect the negative battery cable.

Step 13: Install is now complete.

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



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