



## ***advanced FLOW engineering***

### **Instruction Manual P/N: 46-20614-B**

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#### **BladeRunner – Charge Pipe Combo Kit**

Make: **RAM**

Model: **2500**

Year: **19 - 23**

Engine: **L6–6.7L(td)**

Make: **RAM**

Model: **3500**

Year: **19 - 23**

Engine: **L6–6.7L(td)**



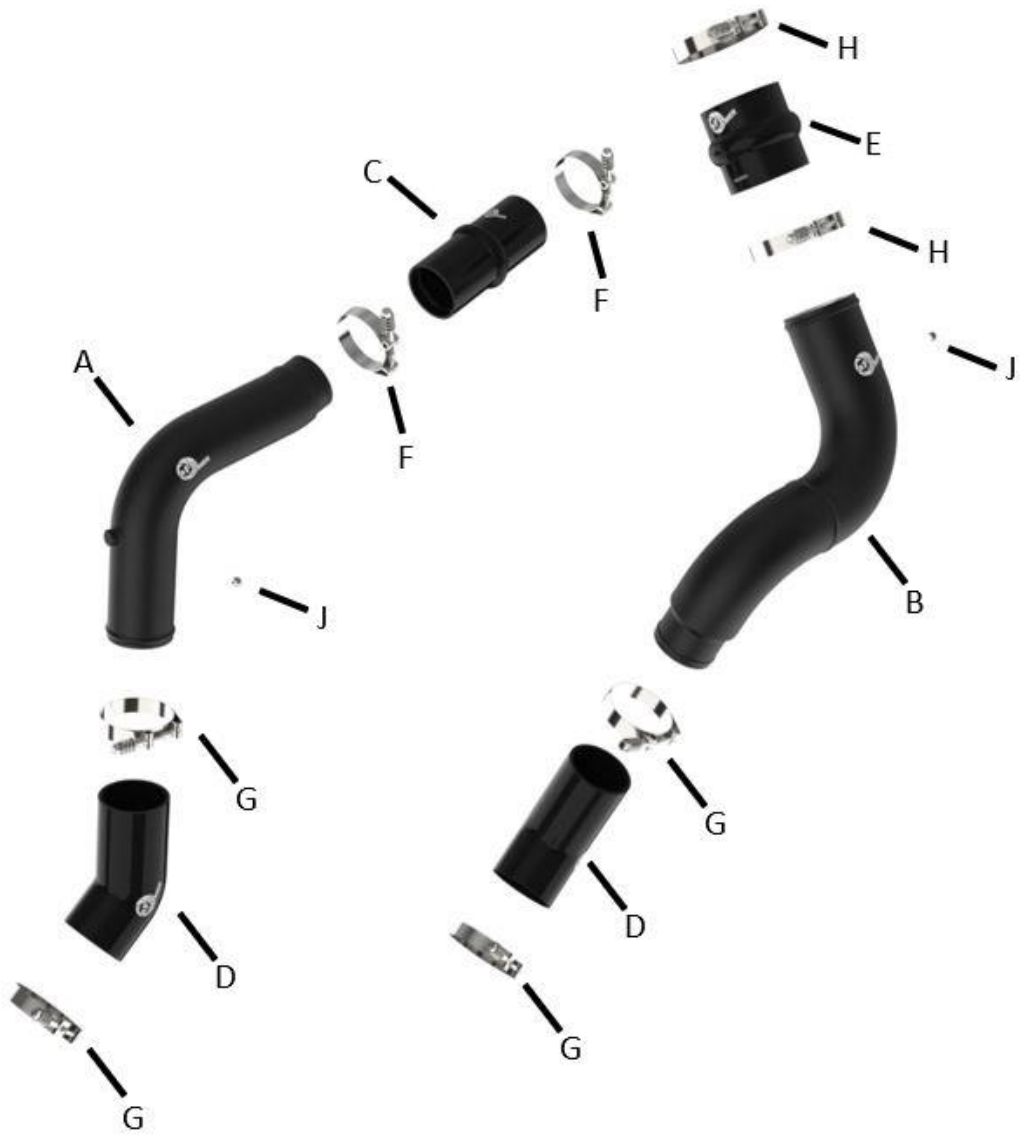
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Tube, Hot Side	05-61293B
B	1	Tube, Cold Side	05-61294B
C	1	Coupling, Silicone Hump: 2.75"ID x 7"L w/Int Bead	05-60382
D	2	Coupling, Silicone Elbow: 3"ID x 45 Deg	05-60433
E	1	Coupling, Silicone Hump: 3.50"ID x 4"L	05-60025
F	2	Clamp, Spring Loaded T-Bolt: 3.00"	05-60435
G	4	Clamp, Spring Loaded T-Bolt: 3.25"	05-60530
H	2	Clamp, Spring Loaded T-Bolt: 3.75"	05-60024
J	2	Plug, 1/8" NPT	03-50029

**Installation will require the following tools:**

8mm socket, 10mm deep socket, 13mm socket, 7/16" deep socket, 5mm allen wrench, ratchet, pick, flat head screwdriver, thread sealant

**Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations**

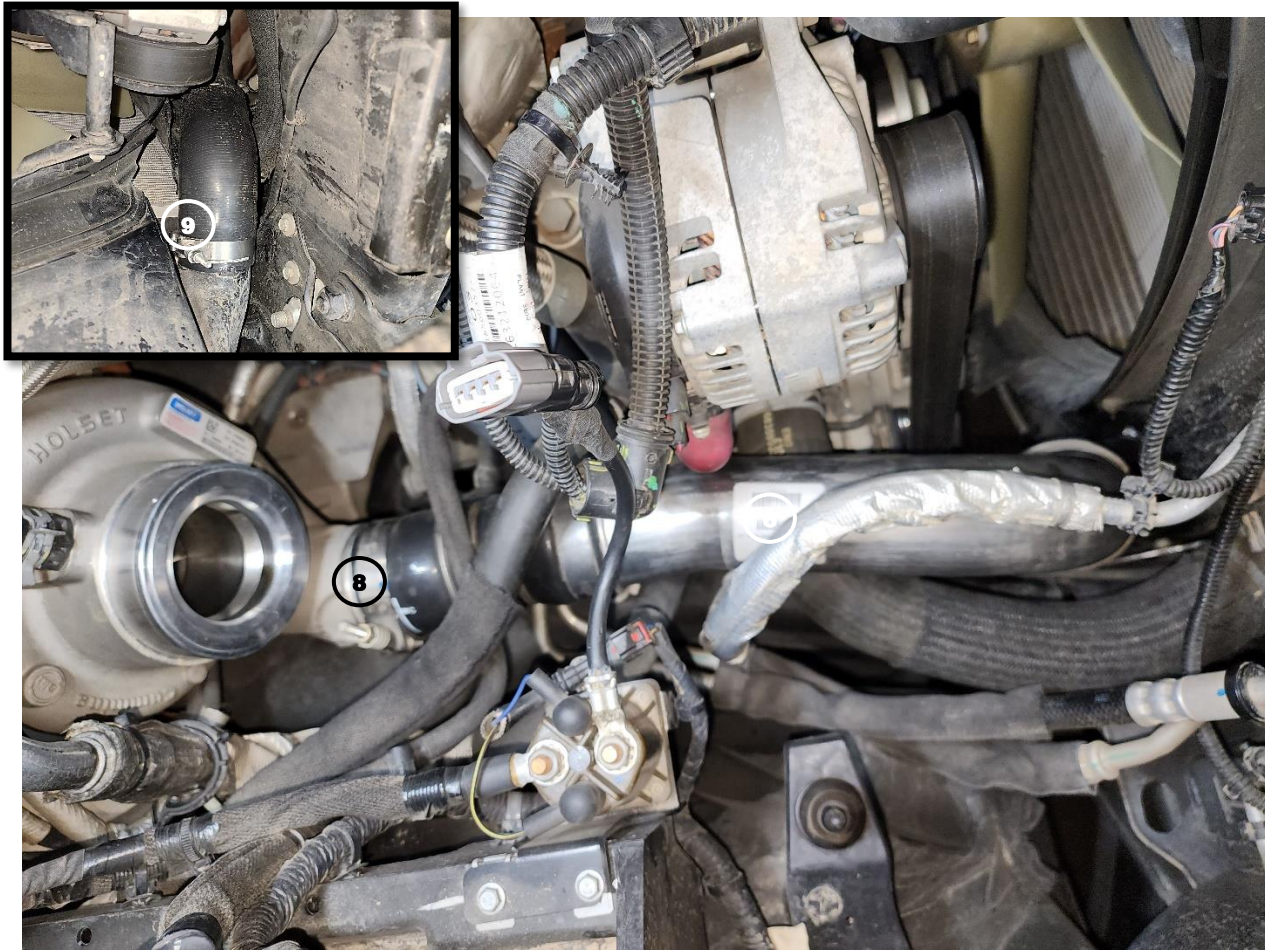




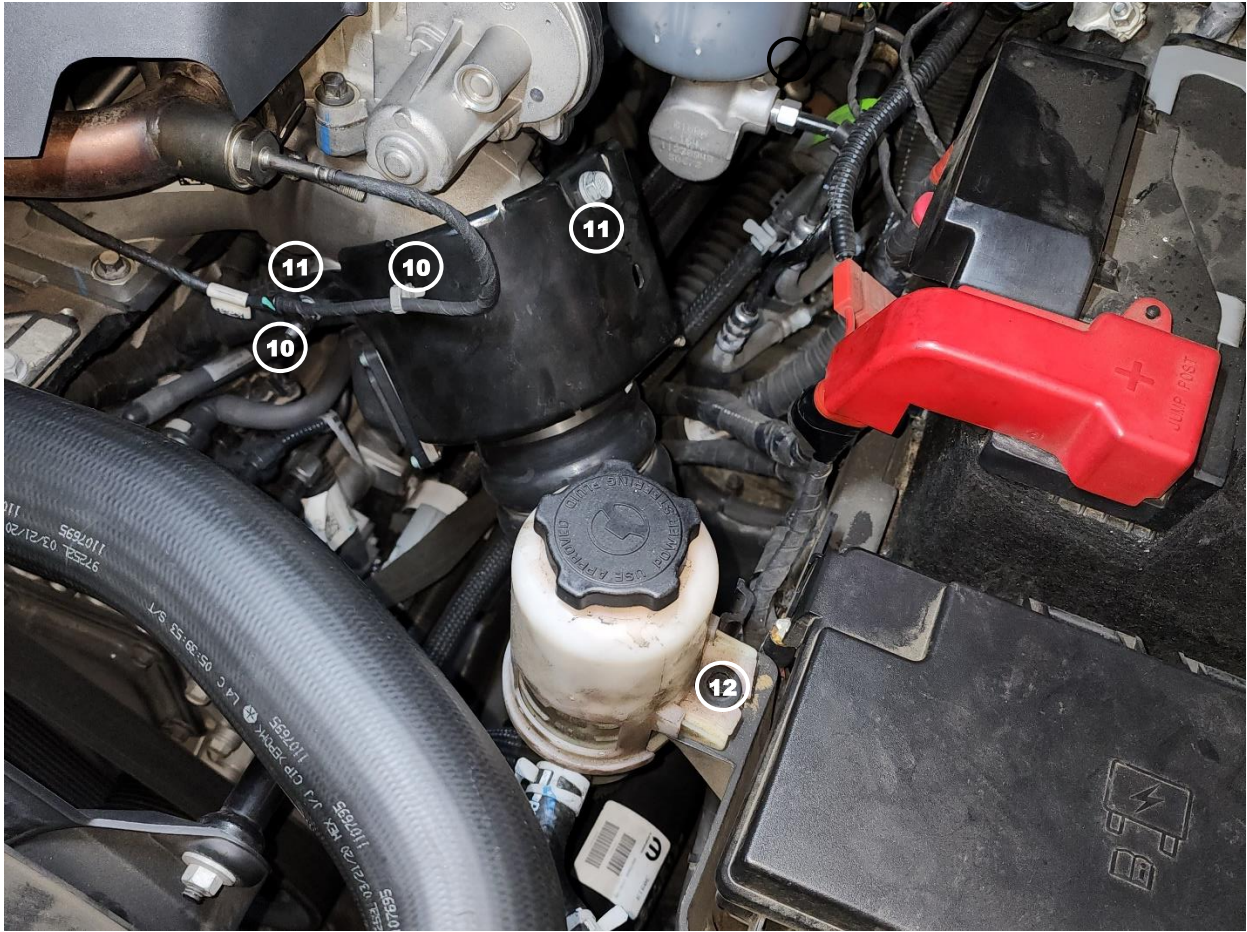
1. Park vehicle on level ground and engage the parking brake.
2. Disconnect both negative battery cables.
3. Remove the radiator cover ① by removing the 14 clips securing it onto the vehicle.
4. Remove the two (2) screws securing the air intake scoop onto the vehicle ②
5. Remove the air intake scoop from the vehicle by unclipping it from the intake air box ③



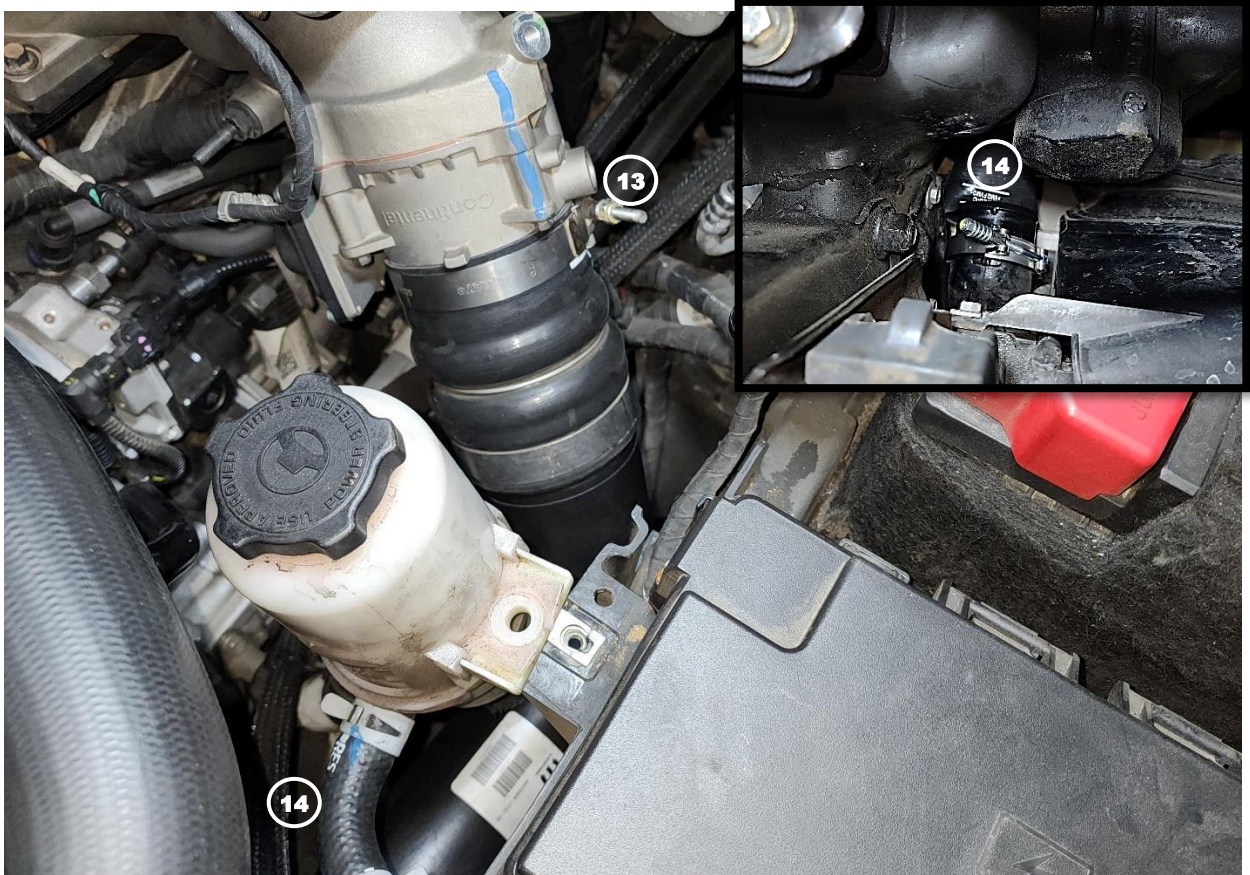
6. Unclip the wiring harness from the factory air intake box if equipped (4).
7. Disconnect the electrical connections for the Mass Air Flow (MAF) and the temperature sensors (5).
8. Loosen the two (2) clamps (6) securing the air intake tube to the air intake box and the turbo inlet, then remove the air intake tube from the vehicle.
9. Lift the air intake box out of its three (3) mounting pegs and remove it from the vehicle (7).



10. Loosen the clamp securing the factory hot side charge pipe to the turbo (8)
11. Disconnect the factory hot side charge pipe coupling from the turbo outlet.
12. Loosen the clamp securing the factory hot side charge pipe to the intercooler inlet from underneath (9)
13. Disconnect the factory hot side charge pipe coupling from the intercooler inlet.
14. Remove the factory hot side charge pipe with couplings from the vehicle.



15. Disconnect the two (2) clips securing the wire harness to the engine inlet heat shield (10).
16. Remove the one (1) screw and the one (1) nut securing the engine inlet heat shield to the vehicle (11) then remove it from the vehicle.
17. Remove the screw securing the power steering reservoir to the vehicle (12) then move the reservoir to the side.



18. Loosen the clamp securing the factory cold side charge pipe to the engine inlet (13)
19. Disconnect the factory cold side charge pipe coupling from the engine inlet.
20. Loosen the clamp securing the factory cold side charge pipe to the intercooler outlet from underneath (14)
21. Disconnect the factory cold side charge pipe coupling from the intercooler outlet.
22. Remove the factory cold side charge pipe with couplings from the vehicle, from the top.





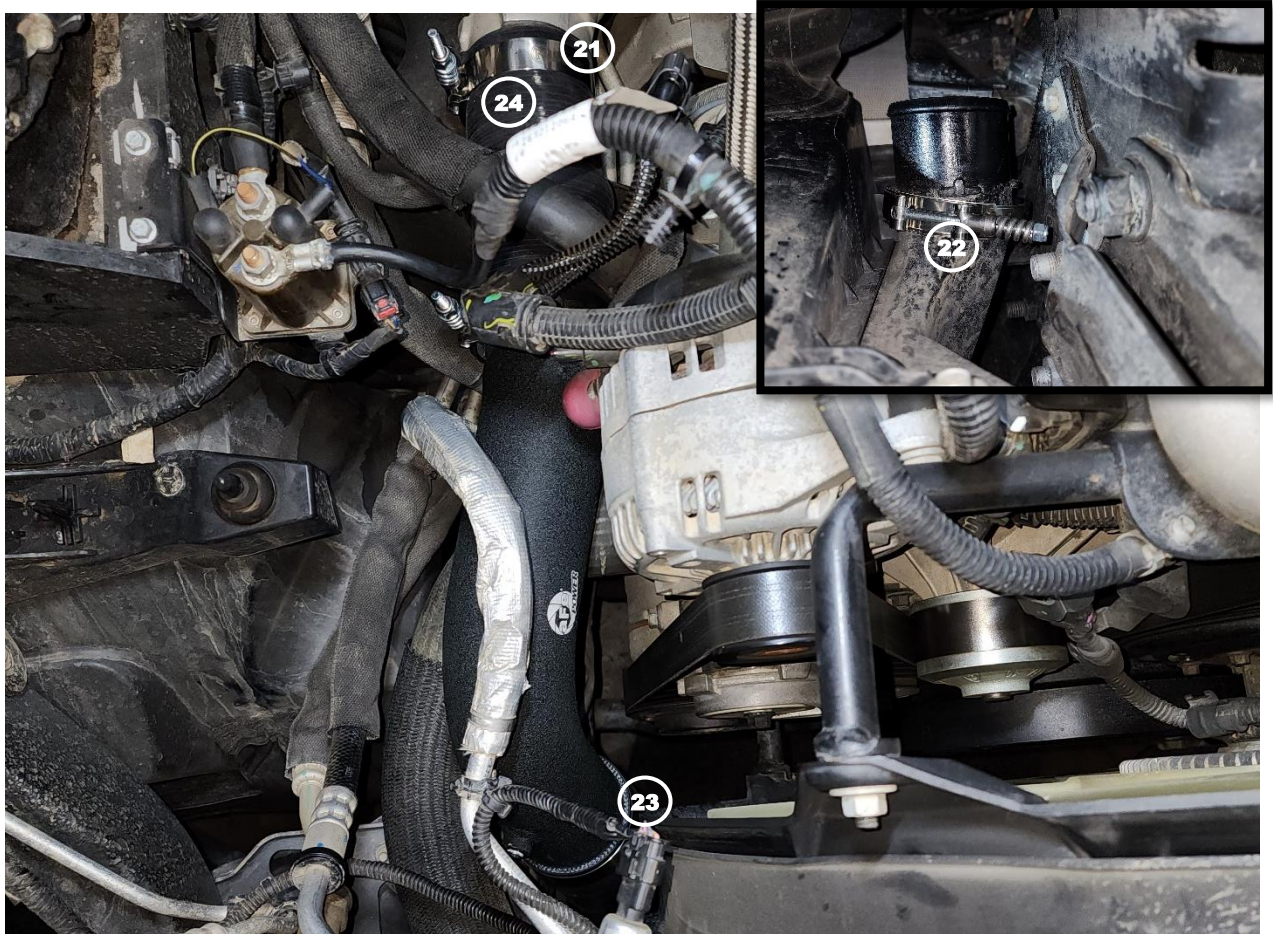
**Note: Be sure to use thread sealant on the plug or sensor to prevent any leaking**

23. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug (15) into the threaded fitting on the aFe hot side charge pipe.
24. Install the aFe silicone hump coupling, 2.75"x 7"L, (16) and one (1) of the supplied 3.00" spring-loaded t-bolt clamps onto the reduced end of the aFe hot side charge pipe. Be sure the bead on the inside of the coupling engages into the charge pipe, do not tighten the clamp yet.
25. Install the longer side of the aFe silicone elbow coupling, 3"x 45 degree, (17) and one (1) of the supplied 3.25" spring-loaded t-bolt clamps onto the opposing end of the aFe hot side charge pipe, do not tighten the clamp yet.
26. Adjust the couplings in a similar direction as the factory hot side charge pipe.



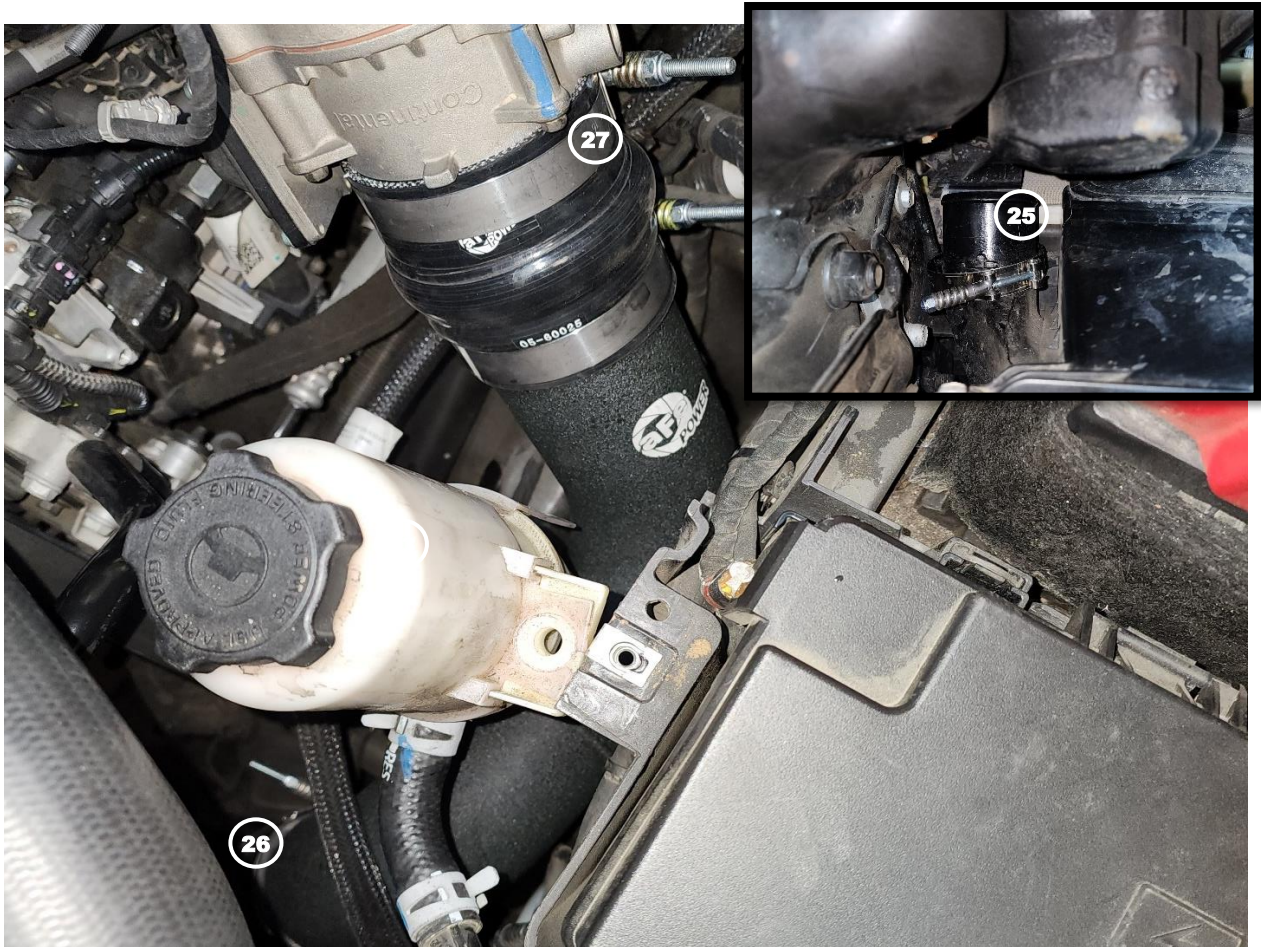
**Note: Be sure to use thread sealant on the plug or sensor to prevent any leaking**

27. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug (18) into the threaded fitting on the aFe cold side charge pipe.
28. Install the longer side of the aFe silicone elbow coupling, 3"x 45 degree, (19) and one (1) of the supplied 3.25" spring-loaded t-bolt clamps onto the reduced end of the aFe cold side charge pipe, do not tighten the clamp yet.
29. Install the aFe silicone hump coupling, 3.50"x 4"L, (20) and one (1) of the supplied 3.75" spring-loaded t-bolt clamps onto the opposing end of the aFe cold side charge pipe, do not tighten the clamp yet.
30. Adjust the couplings in a similar direction as the factory cold side charge pipe.



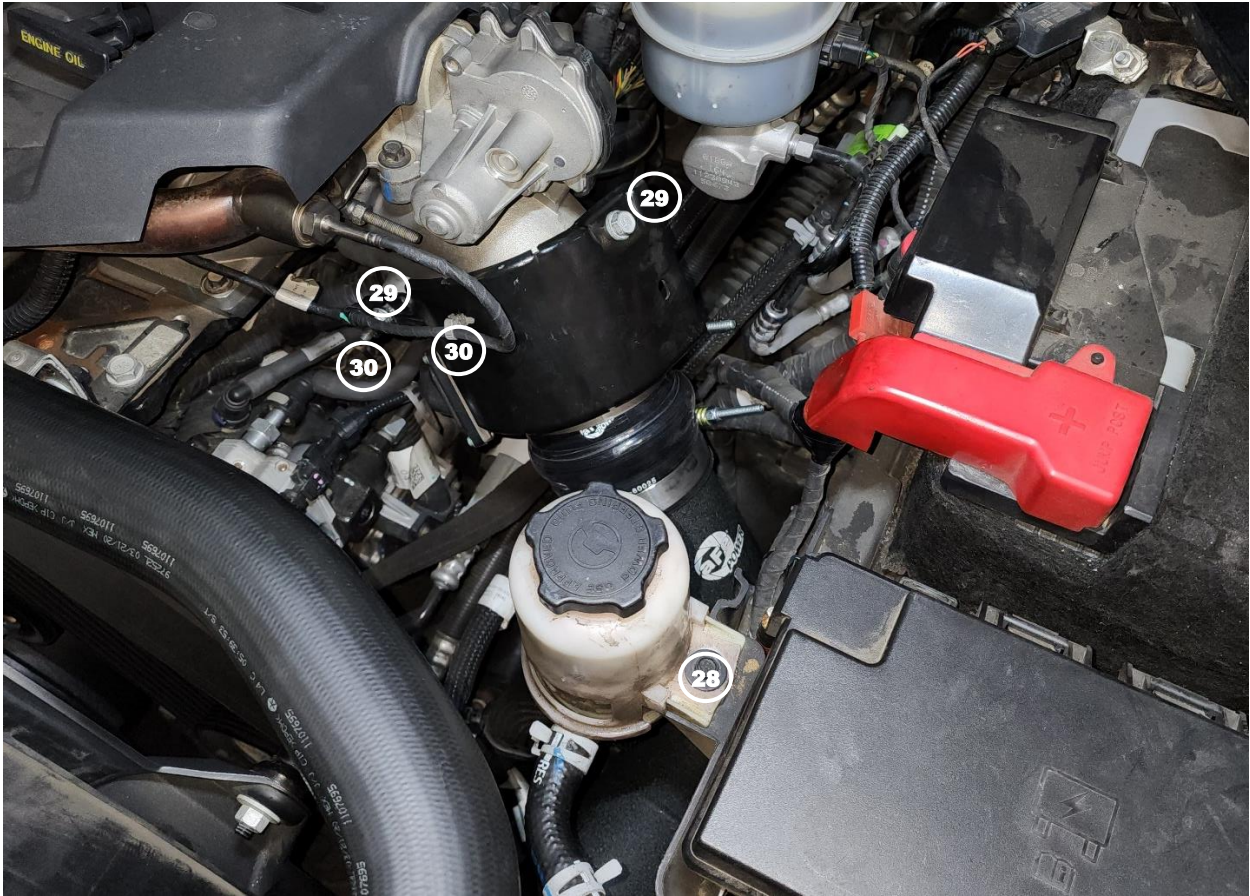
**Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe charge pipes into the vehicle**

31. Place one (1) of the 3.00" spring-loaded t-bolt clamps onto the turbo outlet (21)
32. Place one (1) of the 3.25" spring-loaded t-bolt clamps onto the intercooler inlet (22)
33. Install the aFe hot side charge pipe into the vehicle from the top. First connect the elbow coupling to the intercooler inlet (23) then the hump coupling to the turbo outlet (24)
34. Adjust the couplings as necessary and be sure the aFe hot side charge pipe is not touching anything.
35. Tighten all of the clamps on the aFe hot side charge pipe.

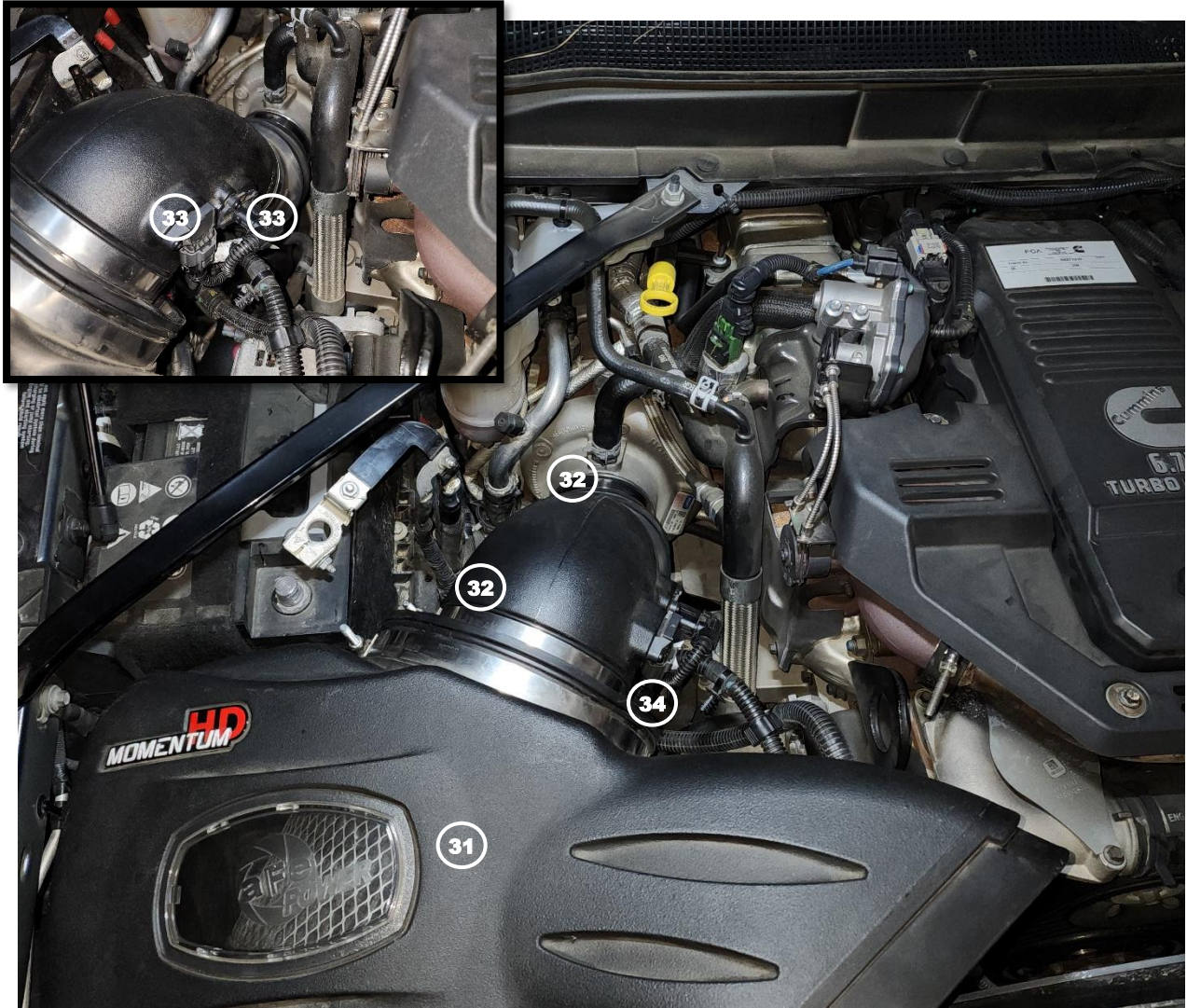


**Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe charge pipes into the vehicle**

36. Place one (1) of the 3.25" spring-loaded t-bolt clamps onto the intercooler outlet (25)
37. Install the aFe cold side charge pipe into the vehicle from the top, then connect the elbow coupling to the intercooler outlet (26)
38. Place the remaining 3.75" spring-loaded t-bolt clamp over the 3.50" x 4" L coupling from Step 29 and then connect the aFe coupling to the engine inlet (27)
39. Adjust the couplings as necessary and be sure the aFe cold side charge pipe is not touching anything.
40. Tighten all of the clamps on the aFe cold side charge pipe.



41. Place the reservoir back into its proper location and secure it using the factory screw (28)
42. Reinstall the engine inlet heat shield to the vehicle using the factory screw and nut (29)
43. Reclip the wire harness to the engine inlet heat shield (30)



44. Reinstall the air intake box onto its three (3) mounting pegs ensure the grommets are in the proper locations (31)
45. Reinstall the air intake tube into the vehicle and tighten the clamps (32)
46. Reconnect the electrical connections for the Mass Air Flow (MAF) and the temperature sensors (33)
47. Reclip the wiring harness into the factory air intake box if equipped (34)



48. Reconnect the air intake scoop to the intake air box and secure it to the vehicle using the factory screws (35)
49. Reinstall the radiator cover and secure it with the factory clips (36)
50. Reconnect the negative battery cables.
51. Install is now complete.

**Note: Be sure to check all connections after 50-100 miles.**



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