



## ***advanced FLOW engineering***

### **Instruction Manual P/N: 46-52211**

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#### **BladeRunner – Street Series Radiator**

Make: **Dodge**

Model: **RAM 1500**

Year: **2004-2008**

Engine: **V8-5.7L**

Make: **Dodge**

Model: **RAM 2500**

Year: **2004-2009**

Engine: **V8-5.7L**

Make: **Dodge**

Model: **RAM 3500**

Year: **2004-2009**

Engine: **V8-5.7L**



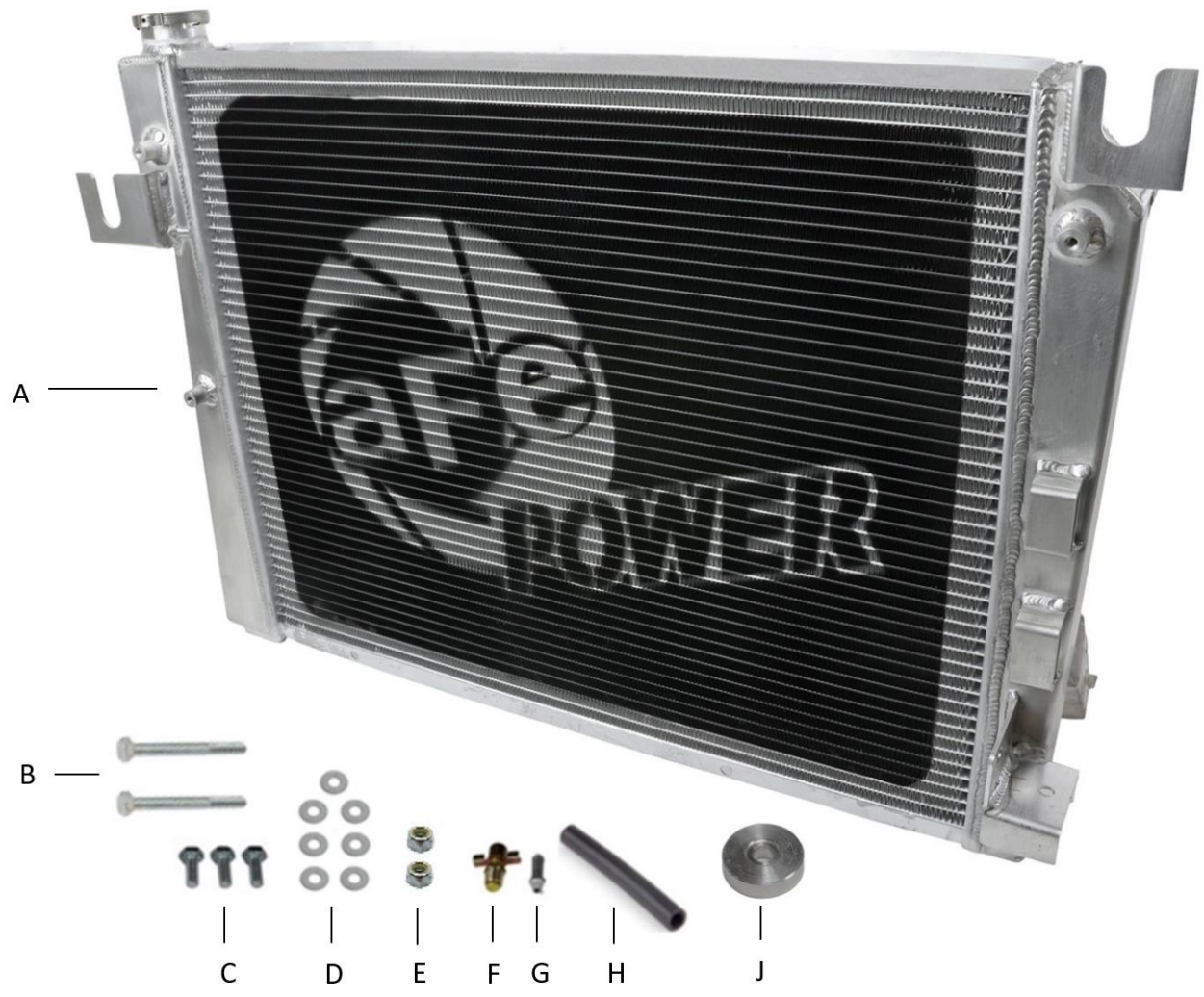
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory parts for future use.

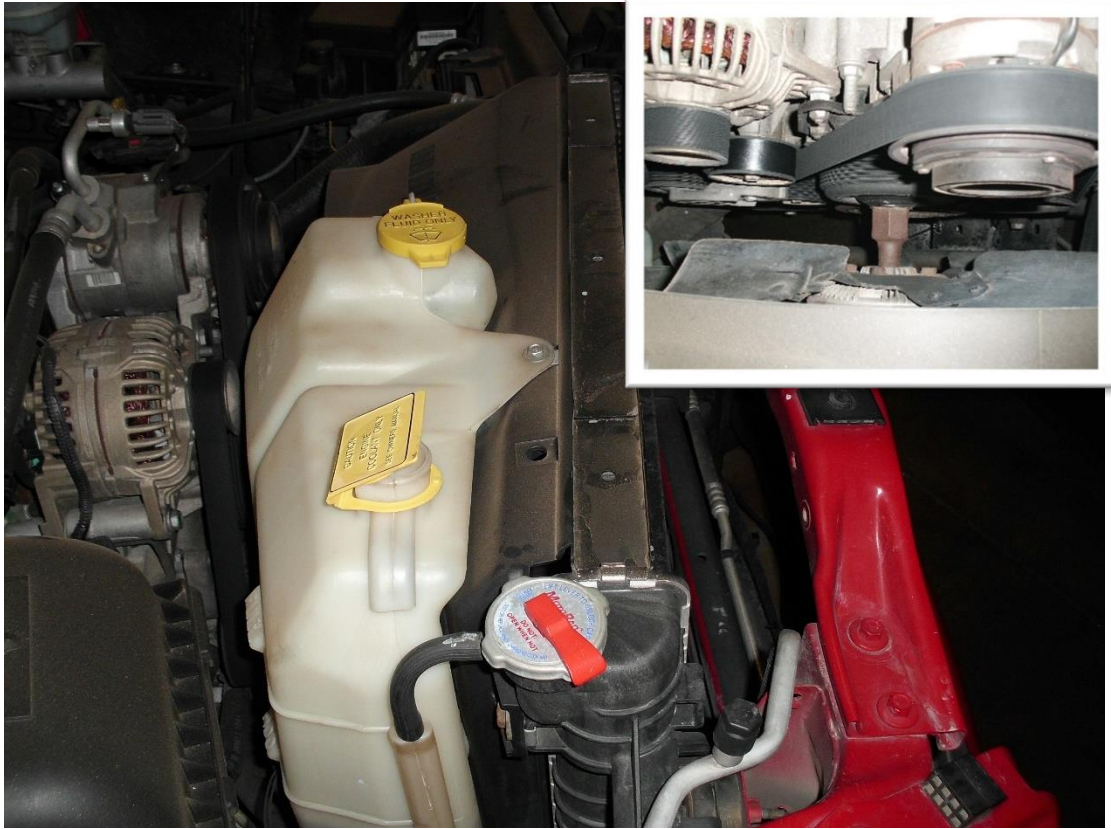
Label	Qty.	U.O.M.	Part No.	Description
A	1	each	05-61062	Radiator
B	2	each	03-50675	M6 x 65mm Hex Head Screw
C	3	each	03-50057	M6 x 20mm Hex Head Screw
D	7	each	03-50070	M6 Washer
E	2	each	03-50185	M6 Lock Nut
F	1	each	03-50579	Radiator Drain Fitting
G	1	each	05-61062_1	Overflow Barb Fitting
H	4	inches	05-00112	Hose, 5/16" ID
J	1	each	05-61421	Spacer, Al: 1.57" OD x 0.40" ID x 0.42" Thk

**Installation will require the following tools:**

Fan clutch wrench, 10mm socket, 13mm socket, pliers, 6" extension, ratchet, flat head screwdriver.

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



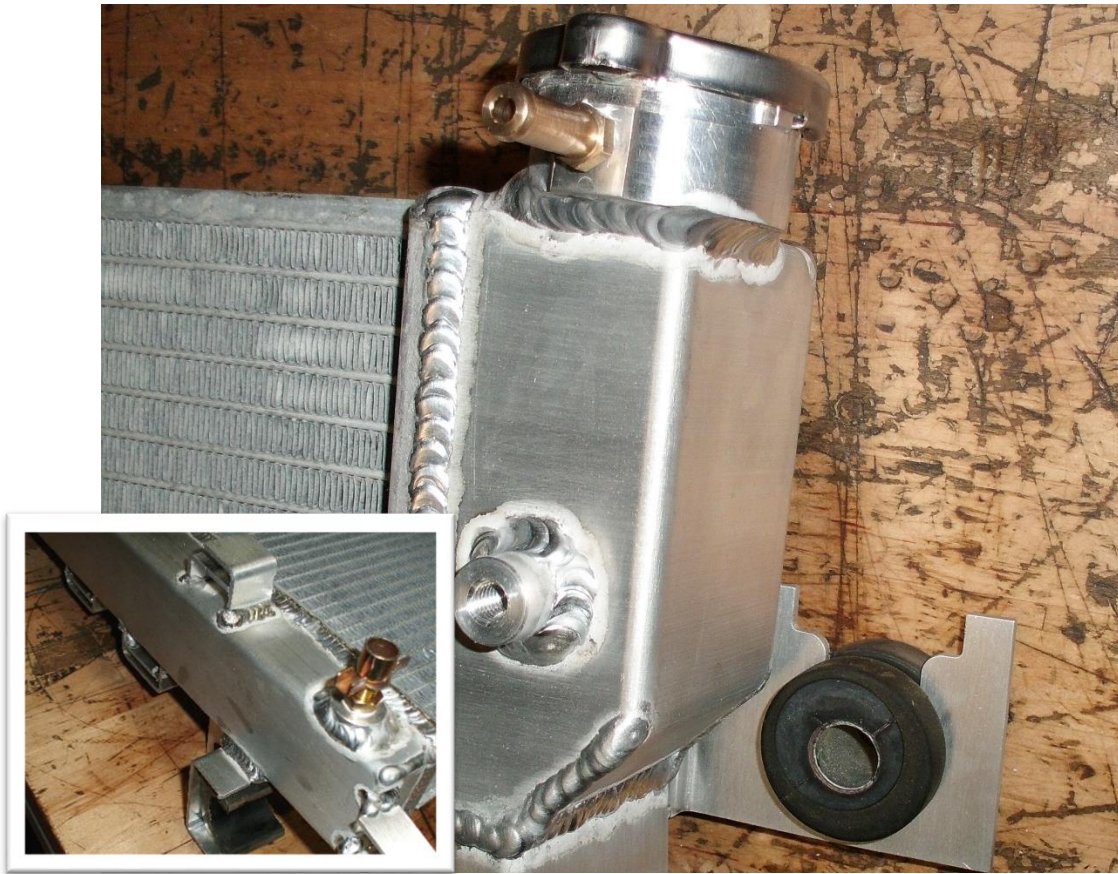


1. Park vehicle on level ground and engage the parking brake. Wait for vehicle to cool before beginning installation.
2. Disconnect the negative battery cable.
3. Open the petcock located on the bottom of the radiator and begin draining the coolant.
4. Remove the radiator cap and drain the remainder of coolant from the system.
5. Using a fan clutch tool, disconnect and remove the cooling fan and clutch assembly from the vehicle.
6. Disconnect the wiring harness from the bottom of the coolant overflow reservoir and washer reservoir.
7. Disconnect the hoses attached to the coolant overflow reservoir and washer reservoir.
8. Remove the two (2) screws securing the coolant overflow reservoir and remove the overflow reservoir from the vehicle.





9. Disconnect the upper radiator hose from the radiator and move the hose back away from the radiator.
10. Remove the two (2) screws securing the fan shroud to the radiator.
11. Lift the fan shroud and release it from the mounts on the radiator and remove the shroud from the vehicle.
12. Disconnect the lower radiator hose from the radiator and move the hose back away from the radiator.
13. Remove the two (2) screws securing the power steering cooler to the bottom of the radiator.
14. Remove the two (2) screws securing the upper radiator mounts to the crossmember.
15. Lean the radiator towards the rear of the vehicle and remove the screw securing the transmission cooler to the front of the radiator. Move the transmission cooler away from the radiator.
16. Remove the radiator from the vehicle.



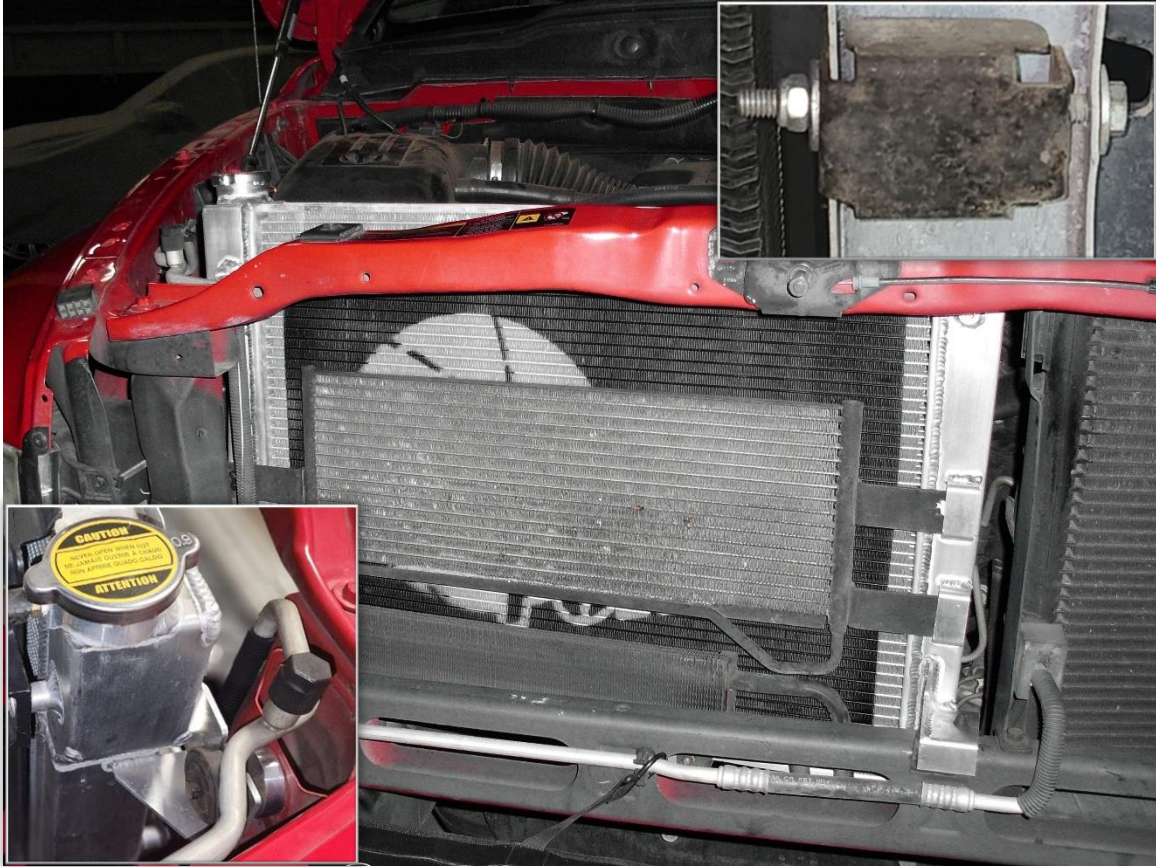
**Note: Install the mounting grommets in the same spot and orientation they were removed from the factory radiator.**

17. Transfer the upper mount grommets and lower mount grommets from the OE radiator to the aFe POWER radiator.

**Note: Use thread sealant on the supplied drain valve and overflow fitting to prevent any leakage.**

18. Install the supplied Radiator Drain Fitting onto the threaded port at the bottom of the aFe POWER radiator.
19. Install the supplied Overflow Barb Fitting to the filler neck of the aFe POWER radiator.





20. Install the new aFe POWER radiator into the vehicle.
21. Secure the transmission cooler to the front of the radiator using one (1) of the provided M6 x 20mm Hex Screws and one (1) of the M6 Washers.
22. Secure the upper mounts of the radiator to the crossmember using the OE screws. On the passenger side, install the Aluminum Spacer between the grommet and crossmember.
23. Install the power steering cooler to the bottom of the aFe POWER radiator as shown above using two (2) M6 x 65mm Hex Screws, four (4) M6 Washers, and two (2) M6 Lock Nuts.
24. Install the lower radiator hose onto the radiator using the OE clamp.
25. Install the fan shroud into the hooks on the back of the aFe POWER radiator and secure using two (2) of the M6 x 20mm Hex Screws and two (2) of the M6 Washers provided.
26. Install the coolant overflow reservoir onto the fan shroud and secure with the OE screws.
27. Reconnect the wiring harnesses to the coolant overflow and windshield washer reservoirs.
28. Reconnect the windshield washer reservoir hose.



29. Install the supplied 5/16" Hose onto the coolant overflow barb on the aFe POWER radiator and connect the other end to the coolant overflow reservoir.
30. Install the cooling fan and clutch assembly.
31. Install the upper radiator hose onto the aFe POWER radiator using the OE clamp.
32. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
33. Fill the coolant overflow reservoir to the max line.
34. Reconnect the negative battery cable.
35. Test drive the vehicle.
36. Let the vehicle cool down then check coolant level, top off coolant if needed.
37. Install is now complete!

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



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