



advanced FLOW engineering

Instruction Manual P/N: 46-52191

BladeRunner – Street Series Radiator

Make: **Dodge** Model: **Ram 2500/3500** Year: **2010-2012** 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.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory parts for future use.

Label	Qty.	U.O.M.	Description
A	1	each	Radiator
B	2	each	13" Trim Seal
C	2	each	7.5" Trim Seal
E	1	each	Radiator Drain Fitting
F	1	each	Overflow Barb Fitting
G	1	each	Clamp, Mini 006

Installation will require the following tools:

3/8" DRIVE RATCHET, 3/8" DRIVE 6" EXTENSION, 8 MM WRENCH, 10MM DEEP SOCKET, 13MM DEEP SOCKET, POP-CLIP PLIERS, 36MM FAN-REMOVAL TOOL

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

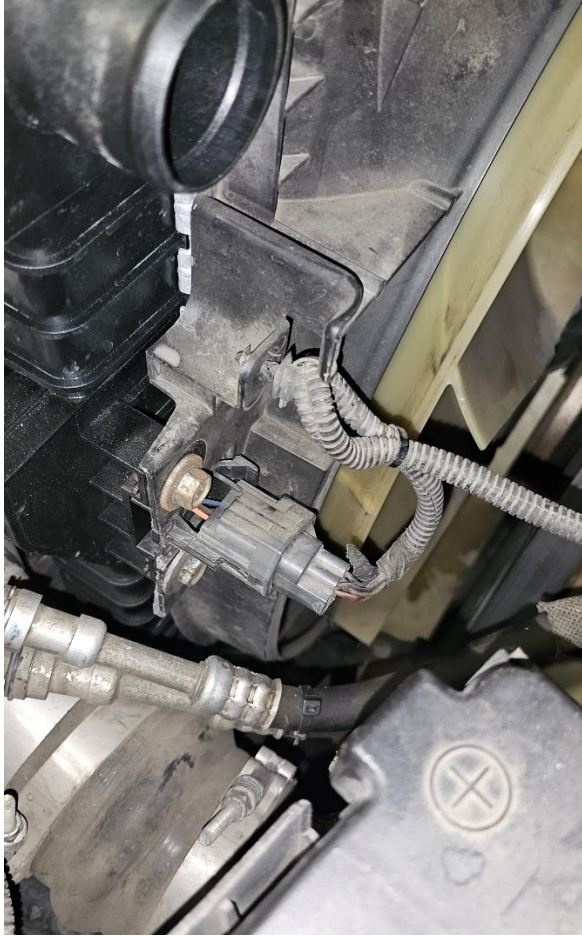




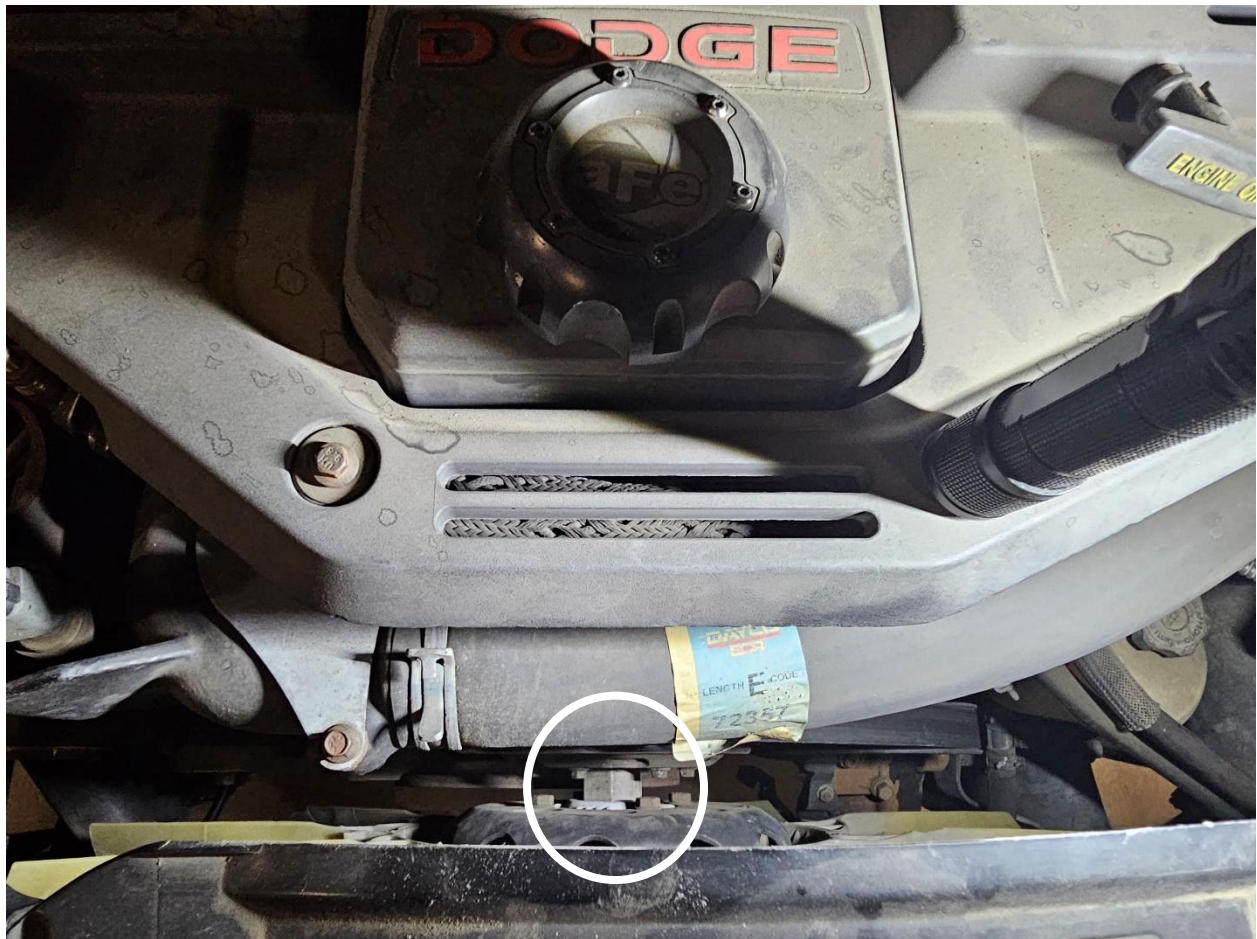
1. Park vehicle on level ground and engage the parking brake. Wait for vehicle to cool before beginning installation.
2. Disconnect both negative battery cables.
3. Remove the upper radiator cover.
4. Open the petcock located on the bottom of the radiator and begin draining the coolant.



5. Unplug the Mass Air Flow sensor and the Ambient Air Temperature sensor.
6. Remove the air filter housing.
7. Remove the upper radiator hose.



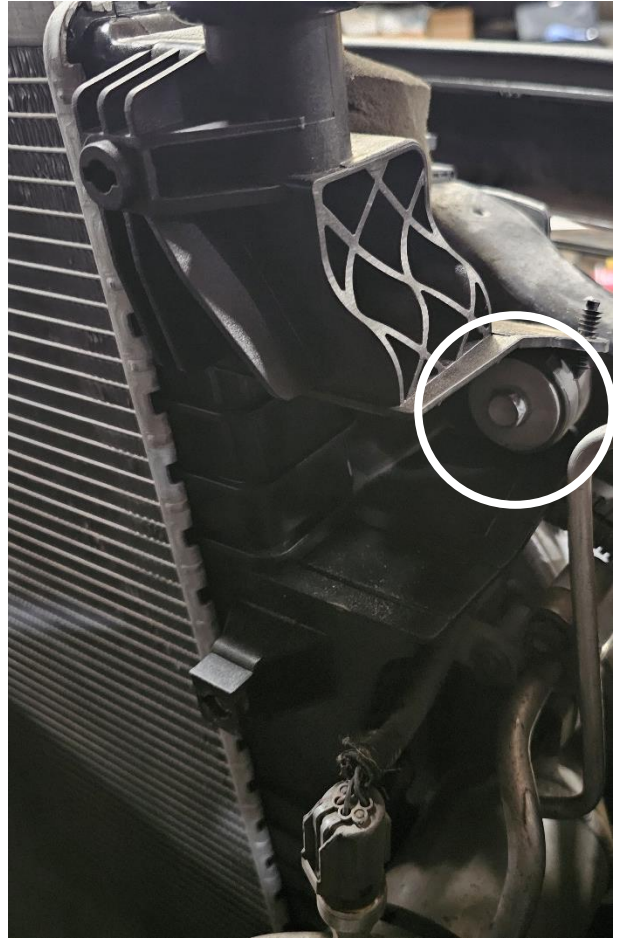
8. Disconnect the electrical connector to the fan clutch.
9. Remove the two (2) screws that retain the fan clutch electrical connector to the radiator on the driver's side and remove the one (1) screw securing the fan shroud to the radiator on the passenger side.



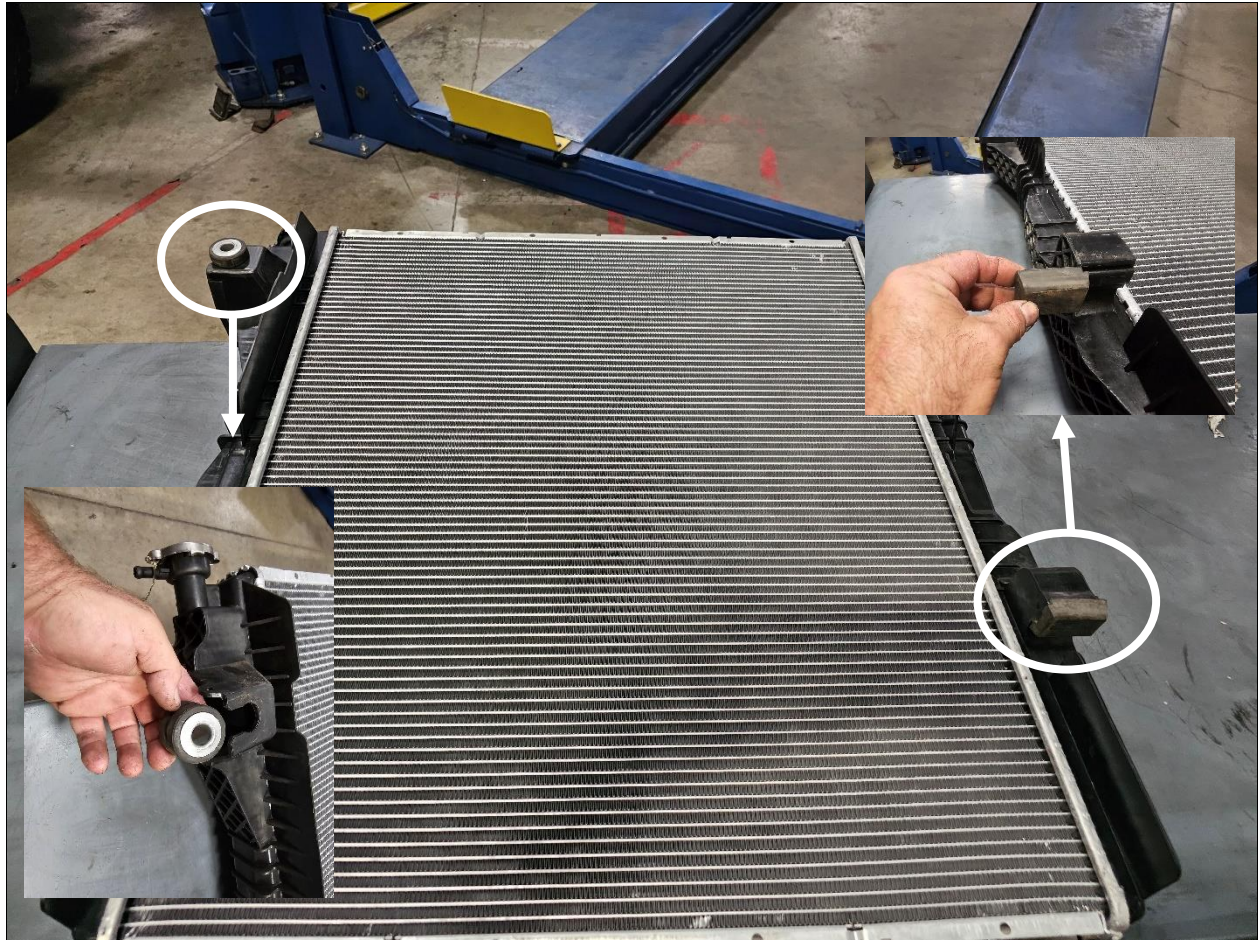
10. Loosen the fan assembly.
11. Remove the fan shroud and the fan assembly at the same time.
12. Remove the lower radiator hose from the radiator.



13. Remove the power steering cooler from the radiator.



14. Remove the two (2) bolts that hold the radiator to the core support.
15. Remove the radiator.

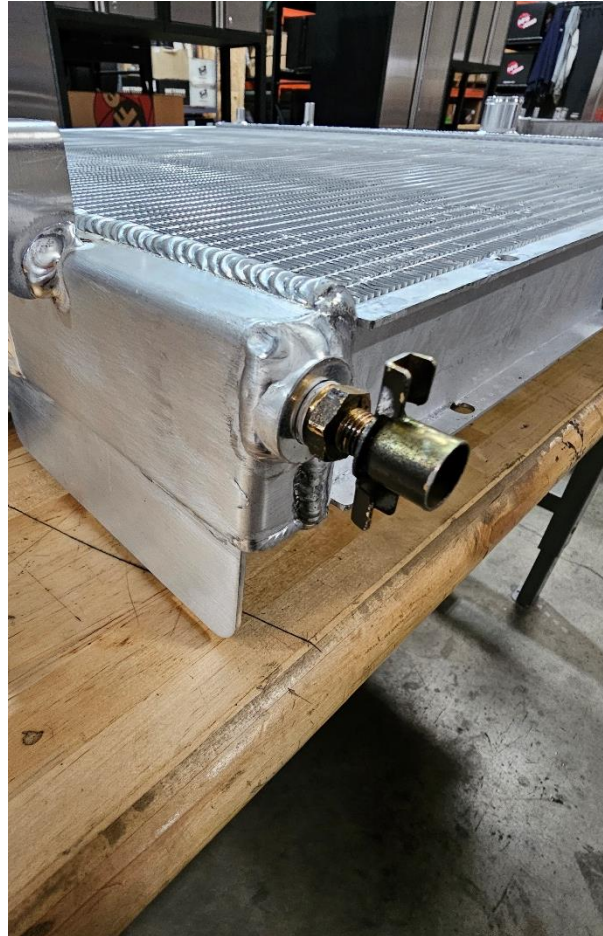


16. Remove the two (2) upper mounting gromets off the top of the radiator.
17. Remove the (2) rubber pads on the bottom of the radiator by sliding them out of their retainers.



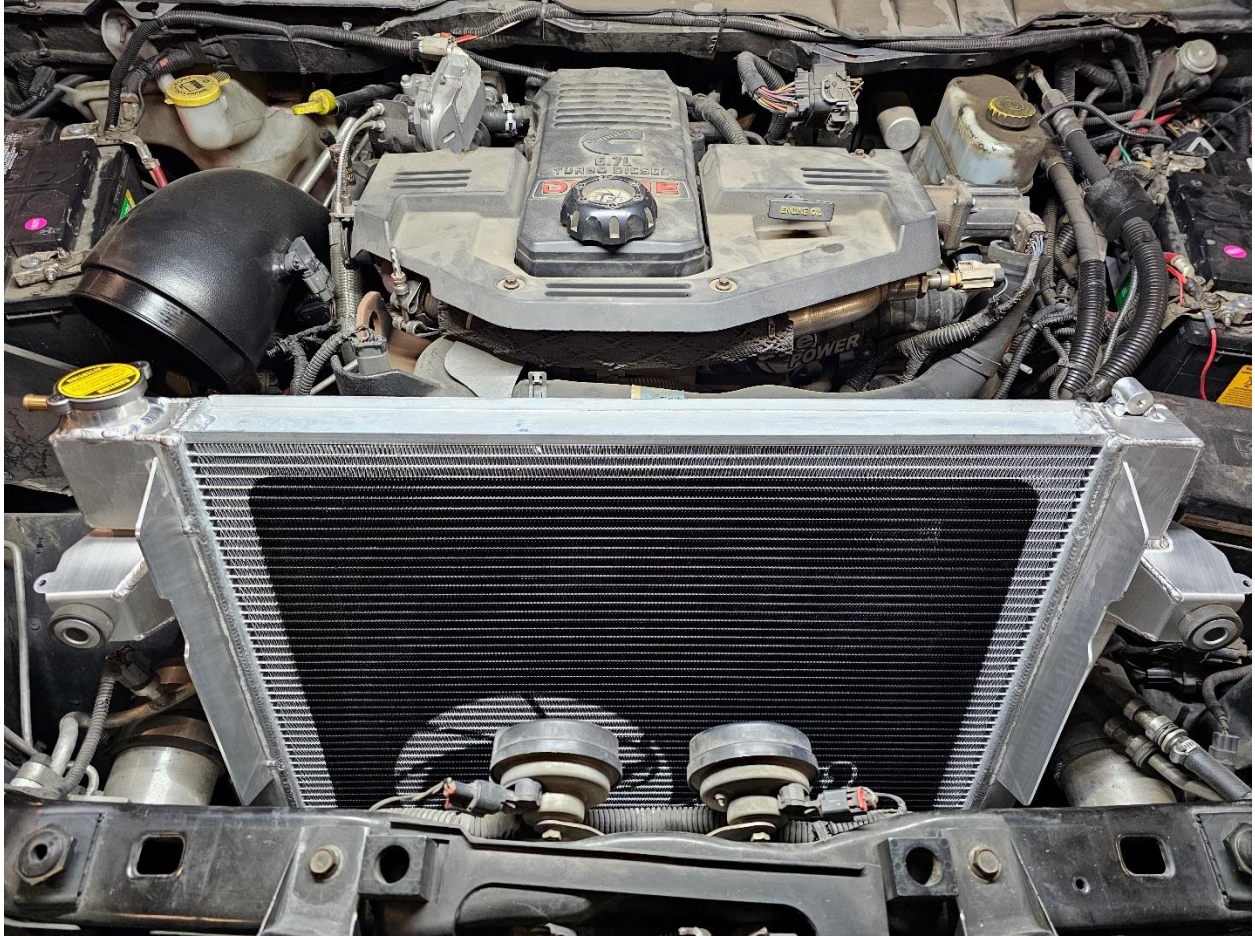
Note: Install the mounting grommets in the same spot and orientation they were removed from the factory radiator.

18. Install the upper mounting grommets and lower rubber pads from the OE radiator to the aFe radiator.



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

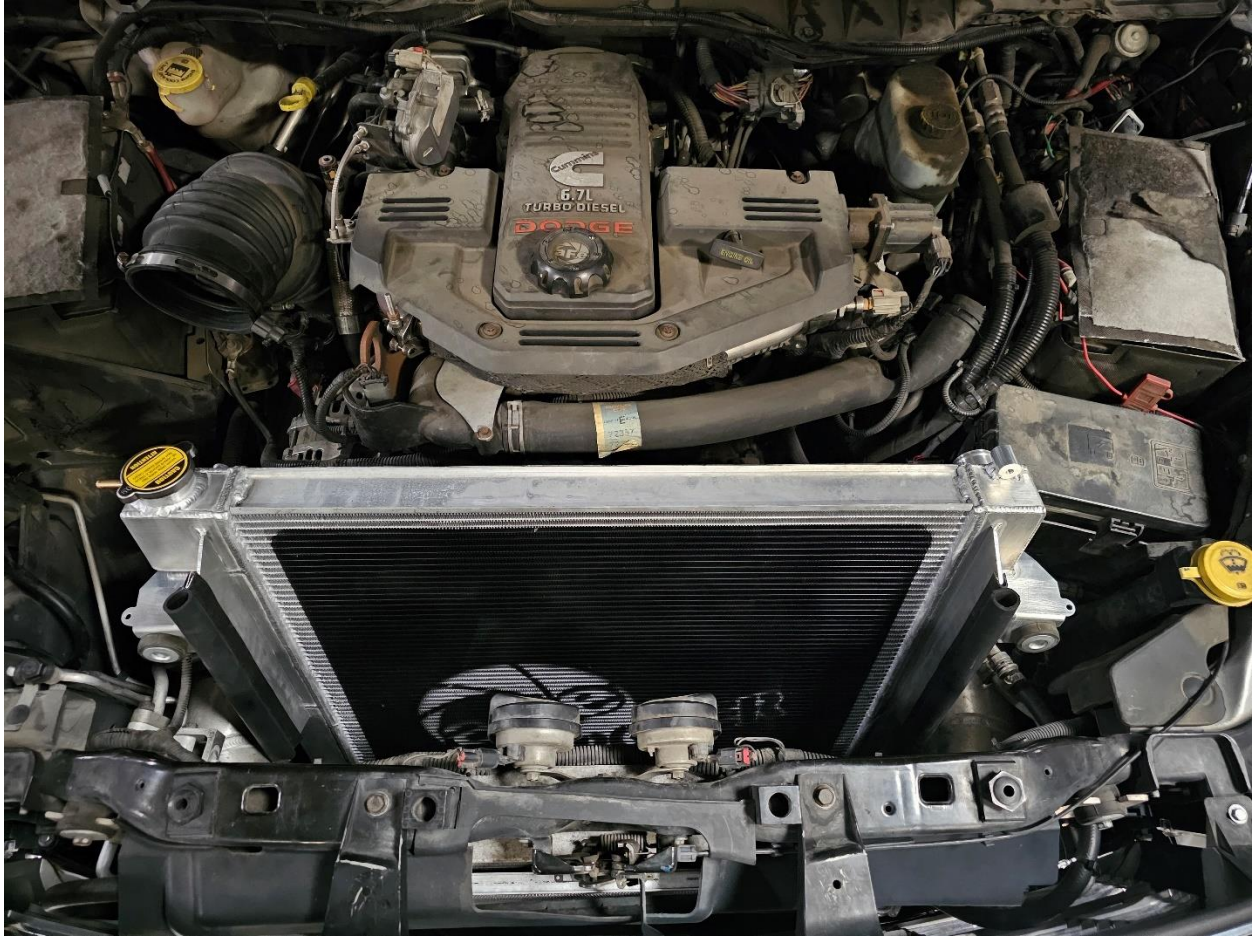
19. Install the supplied Radiator Drain Fitting onto the threaded port at the bottom of the aFe radiator.
20. Install the supplied Overflow Barb Fitting to the filler neck of the aFe radiator.



21. Install the aFe Radiator into the truck but do not tighten.



22. Install the supplied trim seals onto the radiator. The 13" trim seal go on the upper stand off aluminum plates and the 7.5" go on the lower stand off aluminum plates.



23. Tighten the radiator to the core support using the factory mounting screws. Tighten to factory specifications.
24. Install the lower radiator hose onto the radiator using the OE clamp.

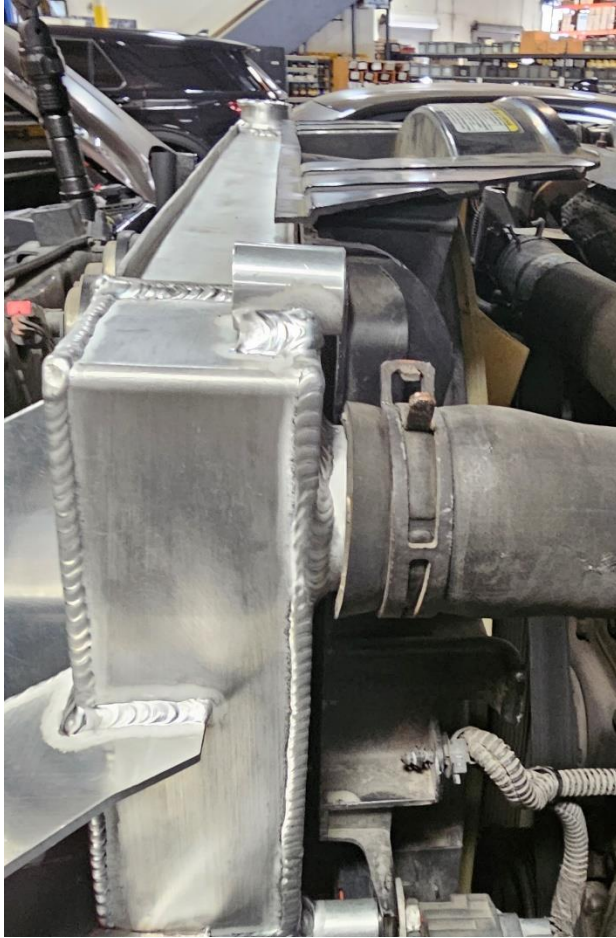


Power Steering Cooler (if applicable):

25. You will need to bend the Power Steering Cooler mounting tabs. Use a crescent wrench to open the tabs up just a little so that it will fit on the mounts located at the bottom of the radiator.
26. Install the Power Steering Cooler to the bottom of the radiator using the factory hardware. Torque to the factory specifications.



27. Install the fan assembly and the fan shroud back into the truck at the same time. Start the fan onto the engine.
28. Tighten the fan shroud to the radiator and torque to factory specifications.
29. Tighten the fan assembly to the engine and torque to factory specifications.
30. Plug in the electrical connector for the fan.



31. Install the upper radiator hose onto the radiator using the OE clamp.

Note: When attaching the overflow hose, the hose may need to be trimmed back a little to fit snug on the Overflow Barb Fitting.

32. Attach the overflow hose by using the supplied Mini Clamp 006.



33. Install the factory air filter housing.

34. Plug in the Mass Air Flow sensor and the Ambient Air Temperature sensor.



35. Install the upper radiator cover.
36. Reconnect the negative battery cables.
37. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
38. Fill the coolant expansion tank to the max line.
39. Test drive the vehicle.
40. Let the vehicle cool down then check coolant level, top off coolant if needed.
41. Install is now complete!

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

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