



advanced FLOW engineering

**Instruction Manual** P/N: 46-52091

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BladeRunner – Street Series Radiator

Make: Ford Model: F-250/350 Year: 2008-2010 Engine: V8-6.4L (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.
- 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.	Description
A	1	Radiator
B	12	Washer, M6
C	6	Screw, M6x1.0x12
D	4	Screw, M6x1.0x16
E	2	Screw, M6x1.0x25
F	1	Clip Nut, M6
G	2	Fitting, Transmission Cooler
H	1	Valve, Drain
I	2	Core Support Mounting Pin
J	1	Upper Mounting Bracket (DS)
K	1	Upper Mounting Bracket (PS)





1. Park vehicle on level ground and engage the parking brake.
2. Disconnect both negative battery cables.
3. Open the petcock and begin draining the coolant.
4. Remove the radiator cap and drain the remainder of coolant from the system.



5. Loosen clamps connecting the intercooler to the hot and cold side charge pipes.
6. Remove the two (2) screws securing the oil cooler to the side of the intercooler and move the oil cooler to the side.
7. Remove the two (2) screws securing the upper intercooler mounts to the vehicle and remove the intercooler from the vehicle.



8. Unclip the wiring harness and coolant overflow line from the top of the radiator and radiator shroud.
9. Disconnect the radiator overflow hose from the radiator.
10. Remove the screw securing the relay assembly to the fan shroud and move the relay assembly and wiring harness out of the way.
11. Remove the two (2) screws securing the fan shroud to the top of the radiator.
12. Remove the two (2) screws securing the power steering reservoir to the fan shroud and move the power steering reservoir to the side.
13. Remove the two (2) screws securing the upper fan shroud to the lower fan shroud.
14. Remove the upper fan shroud from the vehicle.
15. Remove the two (2) screws securing the lower fan shroud to the bottom of the radiator.
16. Lift the lower fan shroud out of the mounting hooks of the radiator and move the lower fan shroud to the side.



17. Remove the screw securing the horn to the upper core support and move it to the side.
18. Remove the two (2) screws securing the hood latch to the upper core support and move it to the side.
19. Remove the two (2) screws securing the power steering cooler to the upper core support and move it to the side.
20. Remove the four (4) screws securing the upper radiator mount brackets to the core support and remove the brackets from the vehicle.
21. Remove the six (6) screws securing the upper core support to the vehicle and remove it from the vehicle.



22. Remove the two (2) screws securing the transmission oil cooler to the front of the radiator.
23. Disconnect the transmission oil cooler hoses from the front of the radiator and move the transmission oil cooler to the side.
24. Remove the two (2) screws securing the A/C condenser to the front of the radiator.
25. Disconnect the upper radiator hose from the radiator.
26. Disconnect the lower radiator hose from the radiator.
27. Remove the radiator from the vehicle.

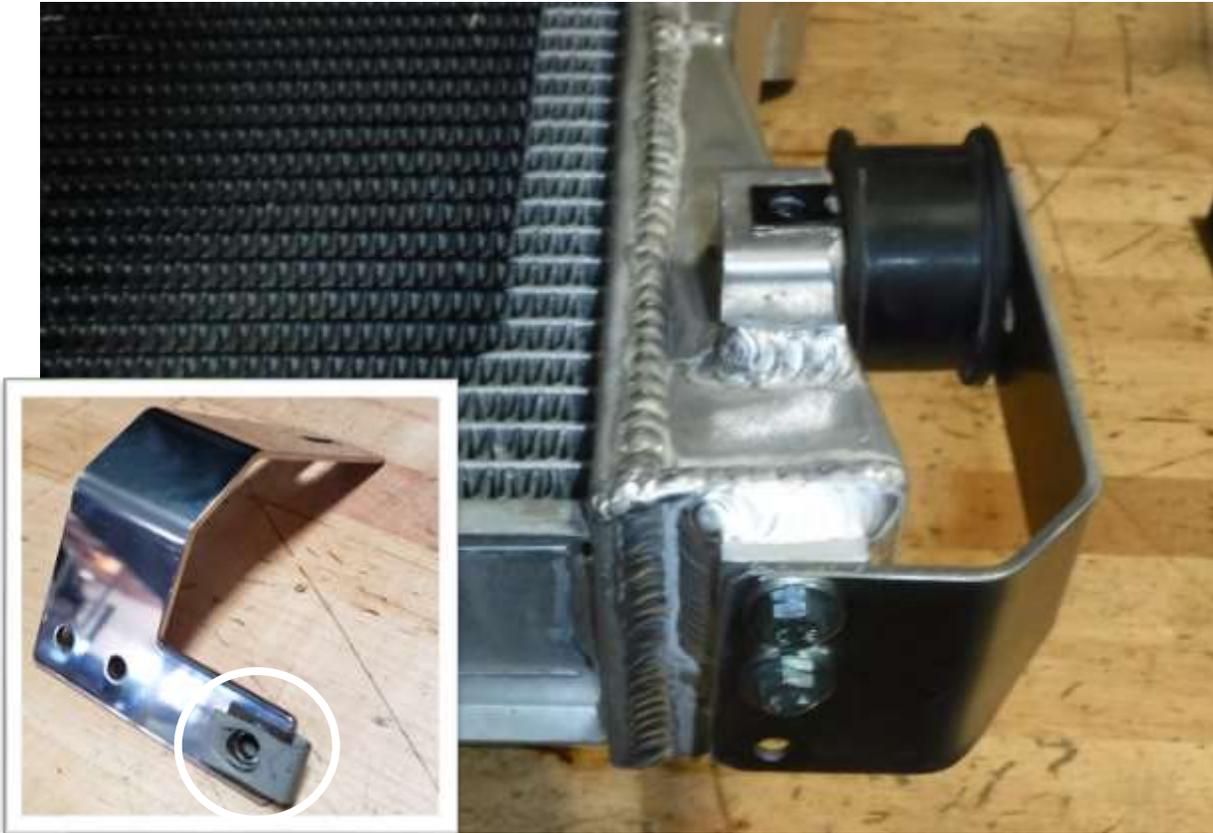


**Note: Be sure to lubricate the O-rings with grease to prevent them from tearing during installation.**

28. Install the two (2) supplied transmission cooler fittings onto the threaded ports on the front of the supplied aFe radiator.
29. Transfer the rubber air guides from the OEM radiator to the aFe radiator.

**Note: Be sure to use thread sealant on the supplied drain valve to prevent any leaking.**

30. Install the drain valve onto the threaded port on the bottom of the aFe radiator.
31. Transfer the lower rubber grommets from the OEM radiator to the aFe radiator.



32. Install the supplied M6 clip nut onto the upper mounting bracket (PS) as shown in the image above.
33. Install the two (2) supplied core support mounting pins onto the slot of the upper mounting bracket using the supplied M6x1.0x25 screws, with the pin facing the inside of the bracket.
34. Transfer the rubber upper mounting grommets from the OEM radiator to the core support mounting pins.
35. Install upper mounting bracket (PS) onto the top of the passenger side of the radiator using two (2) of the supplied M6x1.0x12 screws.
36. Install upper mounting bracket (DS) onto the top of the driver's side of the radiator using two (2) of the supplied M6x1.0x12 screws.



37. Install the aFe radiator onto the vehicle's lower mounting pins, ensuring the grommets are positioned inside of the aFe radiator correctly.
38. Install the A/C condenser into the mounting hooks on the front of the radiator, and secure the upper mounts using two (2) of the supplied M6x1.0x16 screws and M6 washers.
39. Install the transmission cooler into the mounting hooks on the front of the radiator, and secure the lower mounts using two (2) of the supplied M6x1.0x16 screws and M6 washers.
40. Install the transmission cooler lines onto the fittings on the aFe radiator.



41. Install the upper and lower radiator hoses onto the aFe radiator.
42. Install the lower fan shroud into the lower mounting hooks on the back of the aFe radiator.
43. Secure the lower fan shroud to the aFe radiator using the two (2) of the supplied M6x1.0x12 screws and M6 washers.
44. Install the upper fan shroud into the upper mounting hooks on the back of the aFe radiator, and secure to the lower fan shroud using the factory screws.
45. Secure the upper fan shroud to the radiator using the factory screws. The passenger side of the shroud secures to the M6 clip nut installed to the bracket in step 32.



46. Install the wiring harness and coolant overflow line on to the top of the radiator and radiator shroud.
47. Install the coolant overflow hose on to the barbed overflow fitting at the top passenger side of the aFe radiator.
48. Install the coolant overflow bottle on to the back of the radiator shroud using the factory screws.
49. Install the upper core support using the factory screws.
50. Install the power steering cooler, hood latch assembly, and horn using the factory screws.
51. Install the upper mounting brackets connecting the aFe radiator to the upper core support.
52. Install the intercooler using the factory screws and secure the oil cooler to the side of the intercooler using the factory screws.



53. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
54. Fill the coolant expansion tank to the max line.
55. Reconnect the negative battery cables.
56. Use the proper procedure to check the transmission fluid level, top off if needed.
57. Test drive the vehicle.
58. Let the vehicle cool down then check coolant level, top off coolant if needed.
59. Install is now complete!

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