



advanced FLOW engineering

Instruction Manual P/N: 46-52141

BladeRunner – Street Series Radiator

Make: Ford Model: F-250/350 Year: 2003-2007 Engine: V8-6.0L (td)



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- 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	2	Washer, M6
C	2	Screw, M6x1.0x20
D	2	Fitting, Transmission Cooler (A)
E	2	Fitting, Transmission Cooler (B)
F	2	Fitting, Transmission Cooler (C)
G	1	Valve, Drain





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. Disconnect the lower radiator hose from the radiator.
6. Unclip the retainer for the transmission lines.
7. Disconnect the transmission cooler lines from their fittings on the radiator.



8. Disconnect the upper radiator hose from the radiator.
9. Disconnect the expansion tank hose from the radiator.
10. Remove the screws securing the two (2) upper radiator mounts to the vehicle and remove the radiator mounts with grommets from the vehicle.



11. Remove the two (2) screws securing the fan shroud to the radiator.
12. Lean radiator forward and lift fan shroud up and out of its lower mounts and remove from the vehicle.
13. Lift the radiator up and out of the vehicle.



Note: Identify the correct style transmission cooler line fitting (A, B, or C) for your vehicle.

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

14. Install the two (2) supplied transmission cooler fittings (A, B, or C) onto the threaded ports on the back of the supplied aFe radiator.

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

15. Install the drain valve onto the threaded port on the back of the aFe radiator.



16. Ensure the factory lower radiator grommets are in the lower mounts of the vehicle.
17. Install the aFe radiator into the vehicles lower mounting grommets.
18. Install the fan shroud into the lower mounts on the back of the aFe radiator.
19. Secure the fan shroud to the aFe radiator using the two (2) supplied M6x1.0x20 screws and M6 washers.
20. Ensure the factory upper radiator grommets are in the metal mounts removed in Step 10.
21. Install the upper mounts into the vehicle and secure them to the core support using the factory mounting screws.
22. Install the expansion tank hose onto the aFe radiator.
23. Install the upper radiator hose onto the aFe radiator.



24. Secure the two (2) transmission cooler lines into the fittings on the aFe radiator. Be sure the retaining clip is properly clipped in all the way around (if equipped).
25. Install the lower radiator hose onto the aFe radiator.



26. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
27. Fill the coolant expansion tank to the max line.
28. Reconnect the negative battery cables.
29. Use the proper procedure to check the transmission fluid level, top off if needed.
30. Test drive the vehicle.
31. Let the vehicle cool down then check coolant level, top off coolant if needed.
32. Install is now complete!

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