



advanced FLOW engineering

Instruction Manual P/N: 46-52161

BladeRunner – Street Series Radiator

Make: **GM** Model: **Silverado/Sierra** Year: 1999-2013 Engine: **V8-4.8L/5.3L/6.0L/6.2L**

Make: **GM** Model: **Tahoe/Yukon** Year: 2000-2014 Engine: **V8-4.8L/5.3L/6.0L/6.2L**



- 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.	Description
A	1	Radiator
B	1	Valve, Drain
C	2	Fitting, Oil Cooler
D	2	Fitting, Transmission Cooler
E	2	Seal, Radiator
F	6	Clip, Retainer

Note: For the installation of this radiator, some drilling may be required.





1. Park vehicle on level ground and engage the parking brake.
2. Disconnect the negative battery cable.
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 the screw securing the engine cover to the engine and remove the engine cover from the vehicle.
6. Remove the clips securing the plastic cover to the top of the grille and core support and remove the cover from the vehicle.



7. Disconnect the clip securing the radiator hose to the air intake hose.
8. Disconnect the electrical connector from the sensor in the air intake tube.
9. Loosen the clamps securing the air intake tube to the throttle body and to the air box.
10. Remove the air intake tube from the vehicle.
11. Lift the air box straight up to remove it from the vehicle.



12. Disconnect the upper radiator hose from the radiator.
13. Disconnect the lower radiator hose from the radiator.
14. Disconnect rubber oil hose from the radiator.
15. Disconnect the expansion tank hose from the radiator.



16. On the hard metal cooler lines connected to both sides of the radiator, slide the plastic cover back.
17. Remove the small retaining clip securing each of the metal oil cooler and transmission cooler lines to the radiator on both sides.
18. Disconnect the metal lines out of their fittings.
19. Unclip the cooler lines from the fan assembly.



20. Disconnect the electrical connector for the fans.
21. Unclip the wiring harness for the fans from the fan shroud assembly.
22. Remove the two (2) screws securing the radiator fan assembly to the core support.
23. Lift the radiator fan assembly up out of the lower mounts and out of the vehicle.



24. Remove the two (2) screws securing the radiator to the vehicle.

25. Tilt the radiator back then lift the radiator up and out of the vehicle.



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

26. Install the two (2) supplied transmission cooler fittings onto the threaded ports on the back of the supplied aFe radiator.
27. Install the two (2) supplied oil cooler fittings onto the threaded ports on the back of the aFe radiator.

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

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

Note: Be sure to install the mounting grommets in the same spot and orientation they were removed from the factory radiator.

29. Transfer the upper and lower mounting grommets from the factory radiator to the aFe radiator.



30. Place the fan assembly into the mounts on the back of the aFe radiator, hold the fan assembly level, and measure the gap between the fan shroud and the radiator core.
31. Drill 3 holes through the supplied radiator seal $\frac{1}{2}$ " from the edge, one hole in the middle and the other two 6" from the center hole on each side.
32. Using the distance measured in Step 30, place the radiator seal onto the fan shroud assembly and mark holes to be drilled, ensuring the radiator seal is at the proper height.
33. Drill the three holes into the shroud and test fit the shroud onto the aFe radiator, repeat for both sides of the fan assembly.
34. Secure the radiator seals to the fan assembly using the supplied retainer clips.
35. Place the fan assembly back into the mounts on the back of the aFe radiator and ensure the rubber is not touching the radiator core, remove the fan assembly from the radiator.



36. Install the aFe radiator into the vehicle and secure it to the core support using the factory mounting screws.
37. Install the fan assembly into the mounts on the back of the aFe radiator and secure it to the core support using the factory mounting screws.
38. Reconnect the electrical connectors for the fans.
39. Secure the wiring harness to the fan shroud.



40. Install the lower radiator hose onto the aFe radiator.
41. Secure the two (2) oil cooler lines into the fittings on the aFe radiator, be sure the retaining clip is properly clipped in all the way around.
42. Install the rubber oil hose onto the fitting on the aFe radiator.
43. Install the coolant expansion tank hose onto the fitting on the aFe radiator.
44. 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.
45. Install the upper radiator hose onto the aFe radiator.



46. Reinstall the air box into the vehicle
47. Reinstall the air intake tube into the vehicle.
48. Reconnect the electrical connector to the sensor in the air intake tube.
49. Reinstall the engine cover back onto the engine.
50. Reconnect the clip securing the radiator hose to the air intake hose.
51. Reinstall the plastic cover into the vehicle.



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

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

Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

<u>Product Category</u>	<u>P/N Prefix</u>	<u>Warranty duration</u>
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72	2 years
Air Intake Systems	50, 51, 54, 55, 75	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Transmission Pans / Oil Pans	46-7	Life of the vehicle
Turbochargers	46-6	2 years
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81,87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume

any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

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