



advanced FLOW engineering

Instruction Manual P/N: 46-52041

BladeRunner – Street Series Radiator

Make: GM Model: 2500/3500 Year: 2006-2010 Engine: V8 – 6.6L(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	1	Valve, Drain
C	2	Fitting, Transmission



B

C

A



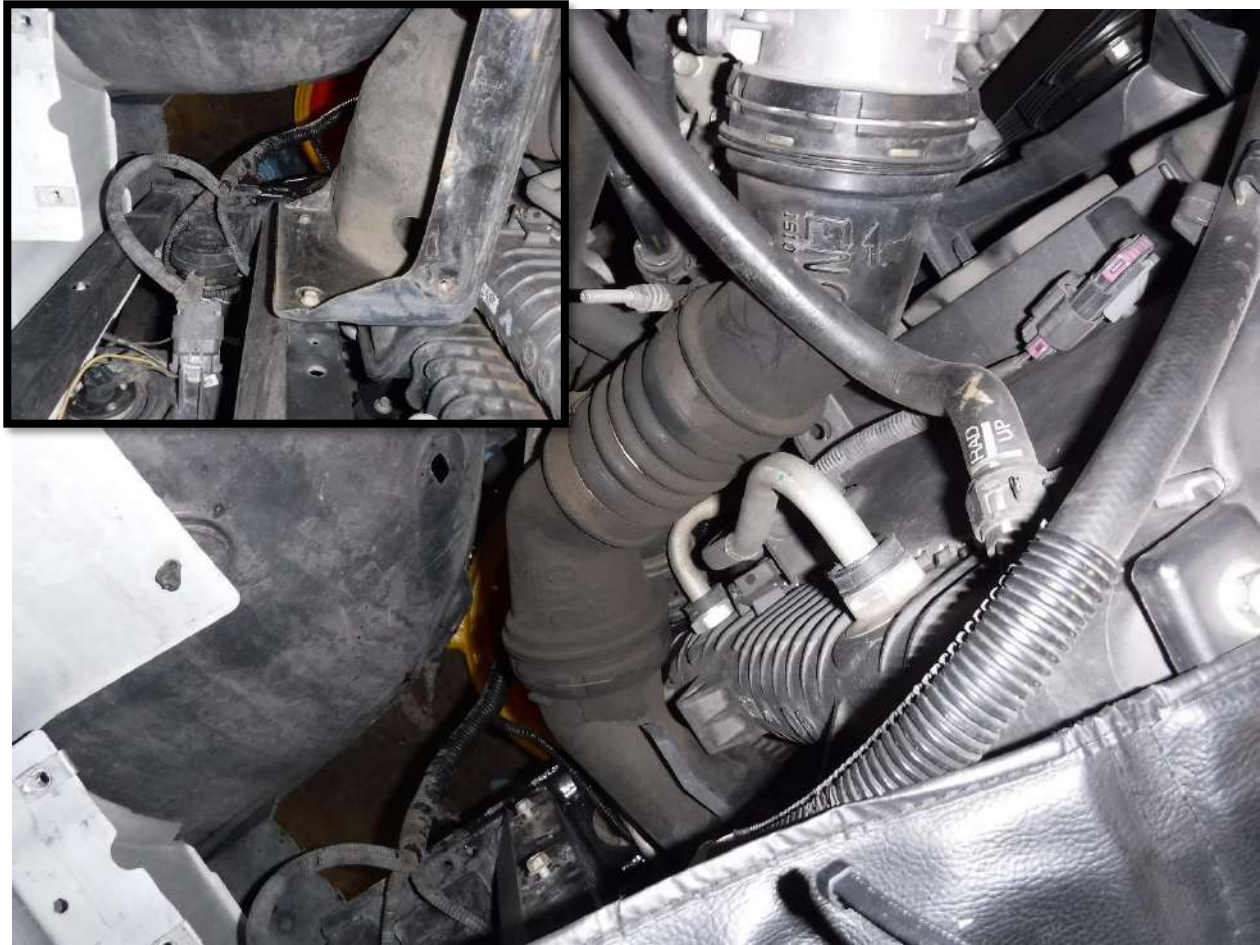
1. Park vehicle on level ground and engage the parking brake.
2. Disconnect the negative battery cables.
3. Remove the plastic splash shield from underneath the vehicle.



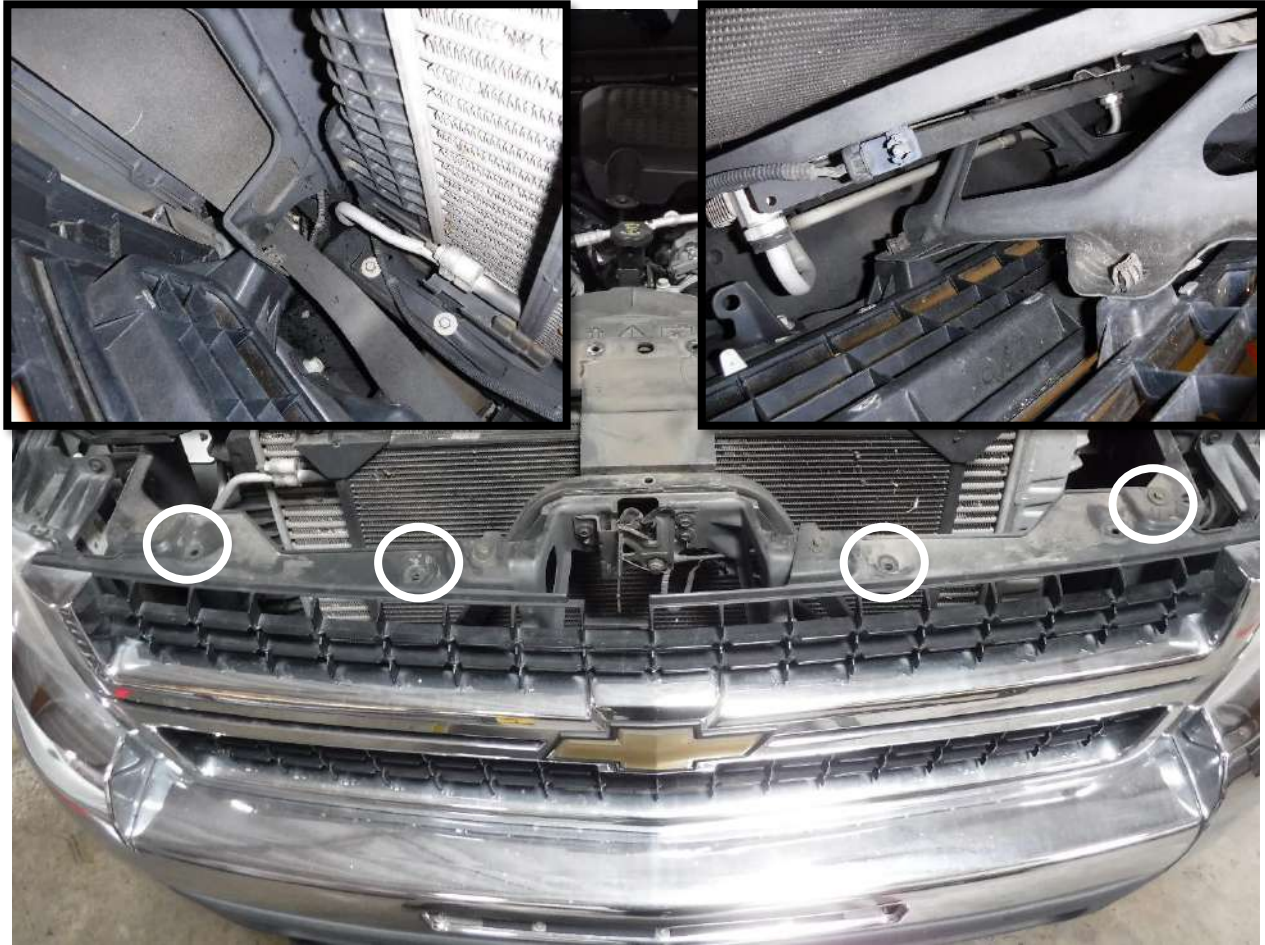
4. Place a large drain pan underneath the lower radiator hose.
5. Remove the retaining clip securing the lower radiator hose onto the radiator.
6. Disconnect the lower radiator hose from the radiator to drain the coolant.
7. Remove the radiator cap to allow the remainder of the coolant to drain.



8. Disconnect the sensor in the air intake tube.
9. Remove the air intake system from the vehicle.
10. Remove the air box mounting plate.



11. Remove the air box mounting plate support bracket.
12. Remove the two (2) retaining clips securing the cold side intercooler tube to the engine and the intercooler.
13. Remove the cold side intercooler tube from the vehicle.
14. Remove the clips securing the plastic cover to the grille and remove plastic cover from the vehicle.



15. Remove the four (4) screws securing the top of the grille to the upper grille mounts.
16. Squeeze the six (6) clips on the back side of the grille to release the grille from its remaining mounts.
17. Remove the grille from the vehicle.



18. Remove the four (4) screws securing each of the grille mounting brackets to the vehicle and remove both mounts.



19. Remove the two (2) screws securing the top of each headlight to the vehicle.
20. Remove the screw securing the bottom of each headlight to the vehicle, located directly below the headlight.
21. Remove the screw securing the side of each headlight to the vehicle, accessed through the wheel well.
22. Slide the headlight forward and out of the fender.
23. Disconnect the electrical connection and remove the headlights from the vehicle.



24. Loosen the clamps securing the hot side intercooler tube to the intercooler coupling.
25. Loosen the clamp securing the hot side intercooler tube coupling to the intercooler, then remove the coupling from the vehicle.

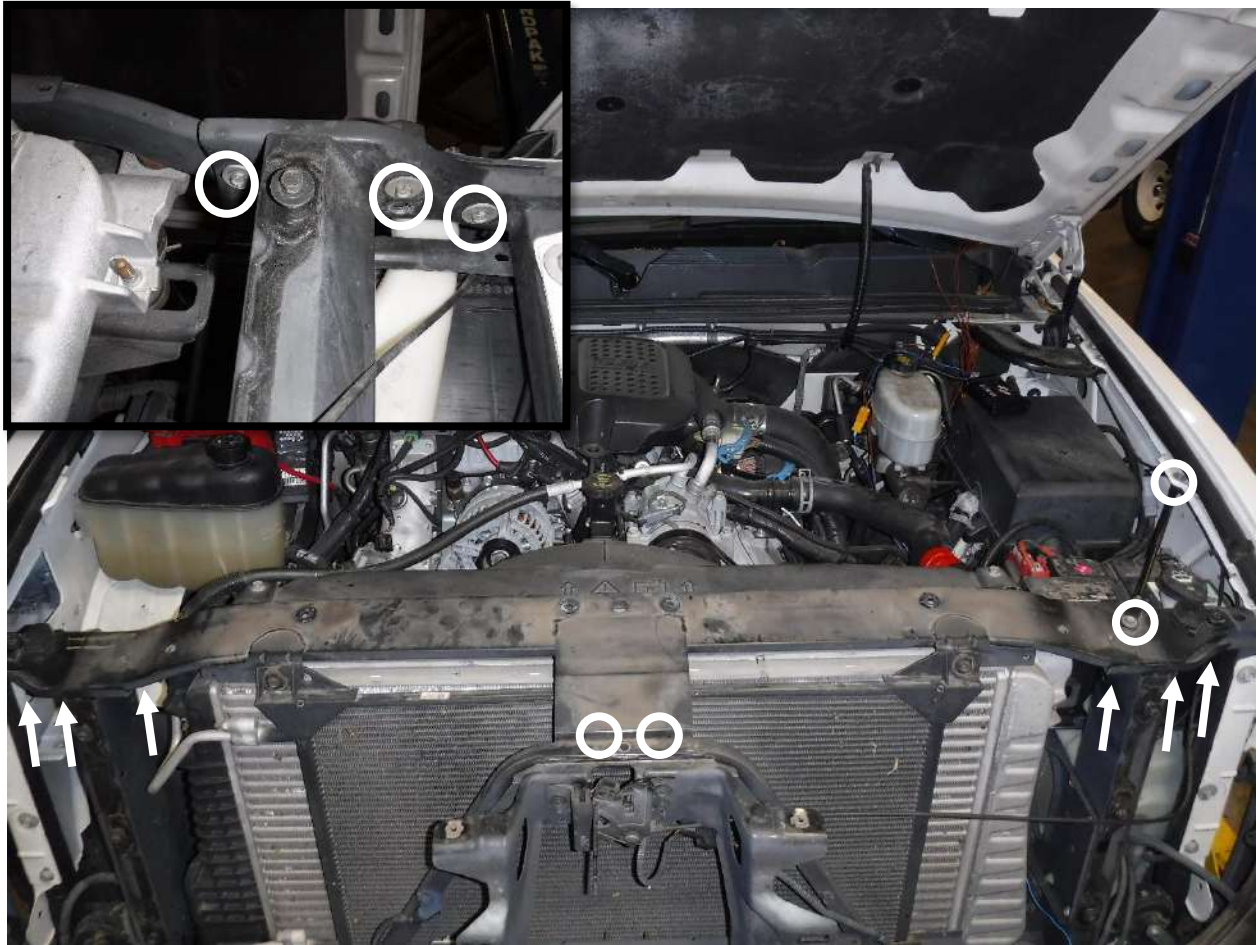


26. Remove the clip securing the transmission control module onto the fan shroud and set the control module to the side.
27. Remove the two (2) screws securing the top of the fan shroud to the radiator.
28. Remove the four (4) clips securing the upper fan shroud to the lower fan shroud.
29. Remove upper fan shroud from the vehicle.
Note: aFe recommends the inspection of the upper and lower radiator hoses at this time.
30. Disconnect the upper radiator hose from the radiator.
31. Disconnect the over-flow hose from the radiator.



Note: Transmission fluid will run out of the transmission cooler lines attached to the radiator when they are disconnected. Make sure to have a way to catch the fluid prior to disconnecting.

32. Pull back the plastic cover on the transmission cooler line fittings.
33. Remove the retaining clip from each transmission cooler line.
34. Disconnect the transmission cooler lines from the radiator.
35. Remove the two (2) bolts securing the intercooler to the upper core support.



36. Remove the two (2) screws securing the upper core support to the hood latch brace, located directly in front of the A/C condenser.
37. Remove the two (2) screws securing the fender brace.
38. Remove the two (2) screws securing the A/C condenser to the upper core support.
39. Remove the six (6) screws securing the upper core support to the vehicle.
40. Remove the upper core support from the vehicle.



41. With some help, remove the radiator and intercooler assembly from the vehicle.
42. Remove the four (4) screws securing the radiator to the intercooler.
43. Transfer all four (4) mounting grommets from the stock radiator to the supplied aFe radiator.



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

44. Install the two (2) supplied transmission cooler fittings onto the aFe radiator.

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

45. Install the drain valve onto the threaded port on the side of the aFe radiator.



46. Place the aFe radiator onto the intercooler and secure it to the intercooler using the four (4) screws from Step 42.
47. With some help place the radiator assembly into the vehicle.
48. Install the upper core support into the vehicle.
49. Secure the upper core support to the hood latch support.
50. Secure the intercooler to the upper core support.
51. Secure the A/C condenser to the upper core support.



52. Install the upper fan shroud into the vehicle and secure it to the lower fan shroud.

53. Secure the upper fan shroud to the upper core support.

Note: Be sure to lubricate the end of the transmission lines with transmission fluid.

54. Connect the transmission cooler lines into the fittings on the aFe radiator, ensure the retaining clips snap all the way into place.

55. Connect the lower radiator hose to the aFe radiator, ensure the clip snaps into place all the way around.



56. Connect the upper radiator hose to the aFe radiator.

57. Secure the transmission control module to the upper fan shroud.



58. Reinstall the cold side intercooler tube into the vehicle, ensure both clips snap into place all the way around.
59. Connect the over-flow hose to the aFe radiator.
60. Reinstall the hot side intercooler tube coupling onto the intercooler.
61. Reconnect the hot side intercooler tube to the intercooler coupling.



62. Reconnect the headlight electrical connections.
63. Reinstall both headlights.
64. Reinstall both grille mounting brackets.



65. Reinstall the grille onto the vehicle.

66. Reinstall the plastic cover.



67. Reinstall the air box mounting plate support bracket.
68. Reinstall the air box mounting plate.
69. Reinstall air intake system.
70. Reconnect the electrical connection to the air intake tube.
71. Reconnect the negative battery cables.



72. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
73. Fill the coolant reservoir bottle to the max line.
74. Test drive the vehicle.
75. Use the proper procedure to check the transmission fluid level, top off if needed.
76. Let the vehicle cool down then check coolant levels. Top off coolant if needed.
77. Install is now complete!

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