



***advanced FLOW engineering***

**Instruction Manual P/N: 46-52031**

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BladeRunner – Street Series Radiator

Make: GM Model: 2500/3500 Year: 2001-2005 Engine: V8 - 6.6L(td)



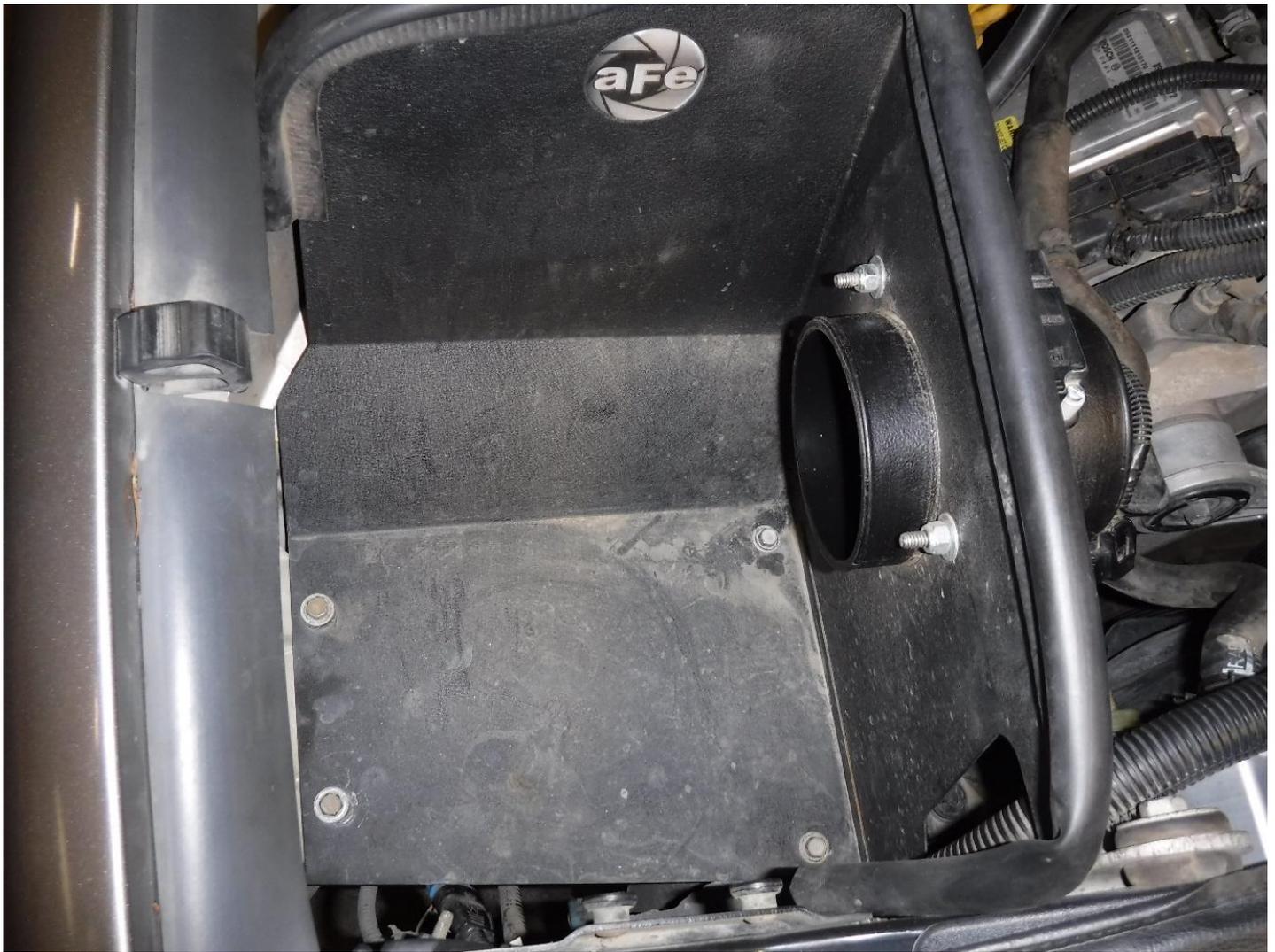
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

| Label | Qty. | Description                  |
|-------|------|------------------------------|
| A     | 1    | Radiator                     |
| B     | 1    | Valve, Drain                 |
| C     | 2    | Fitting, Transmission Cooler |

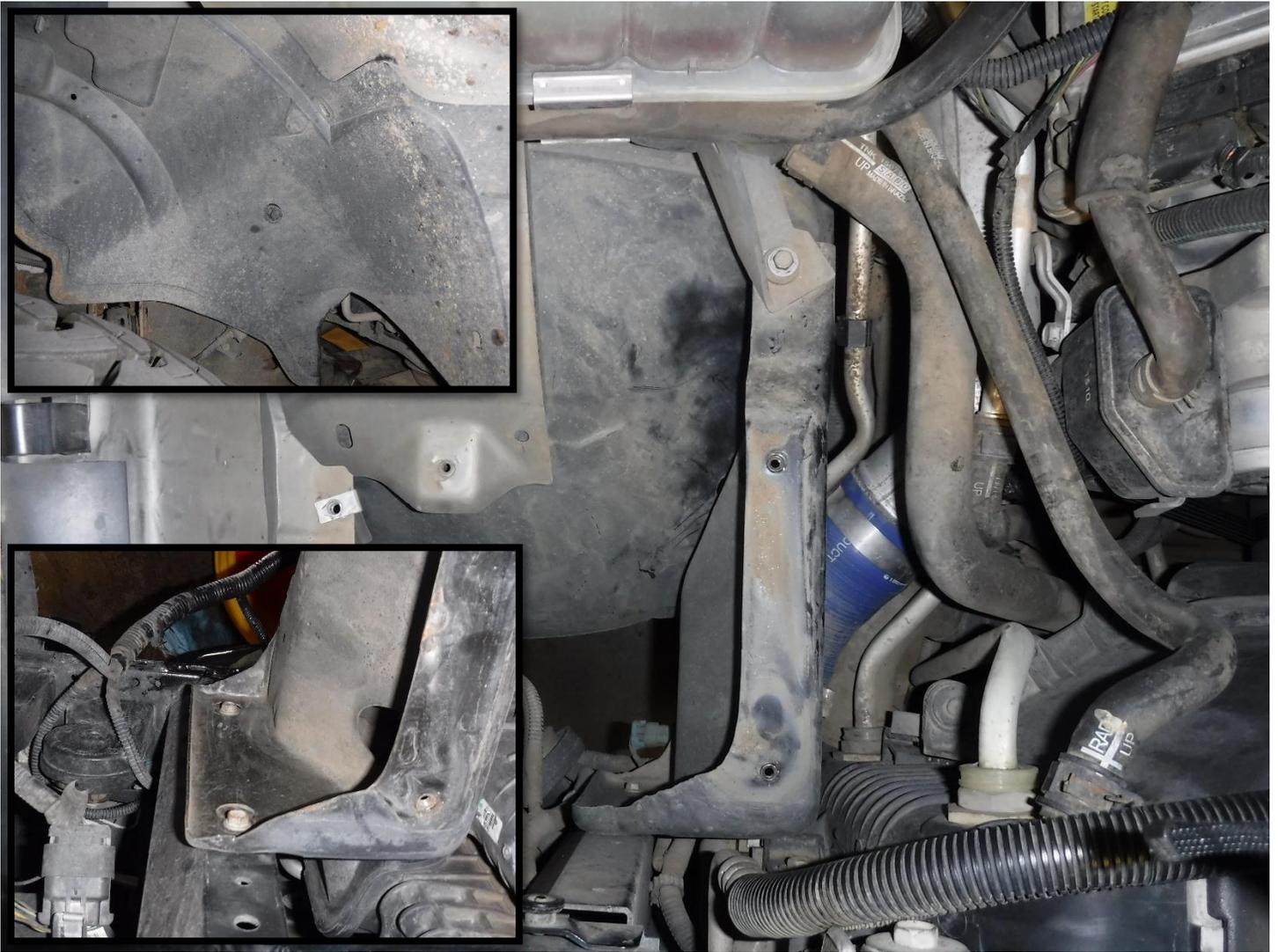




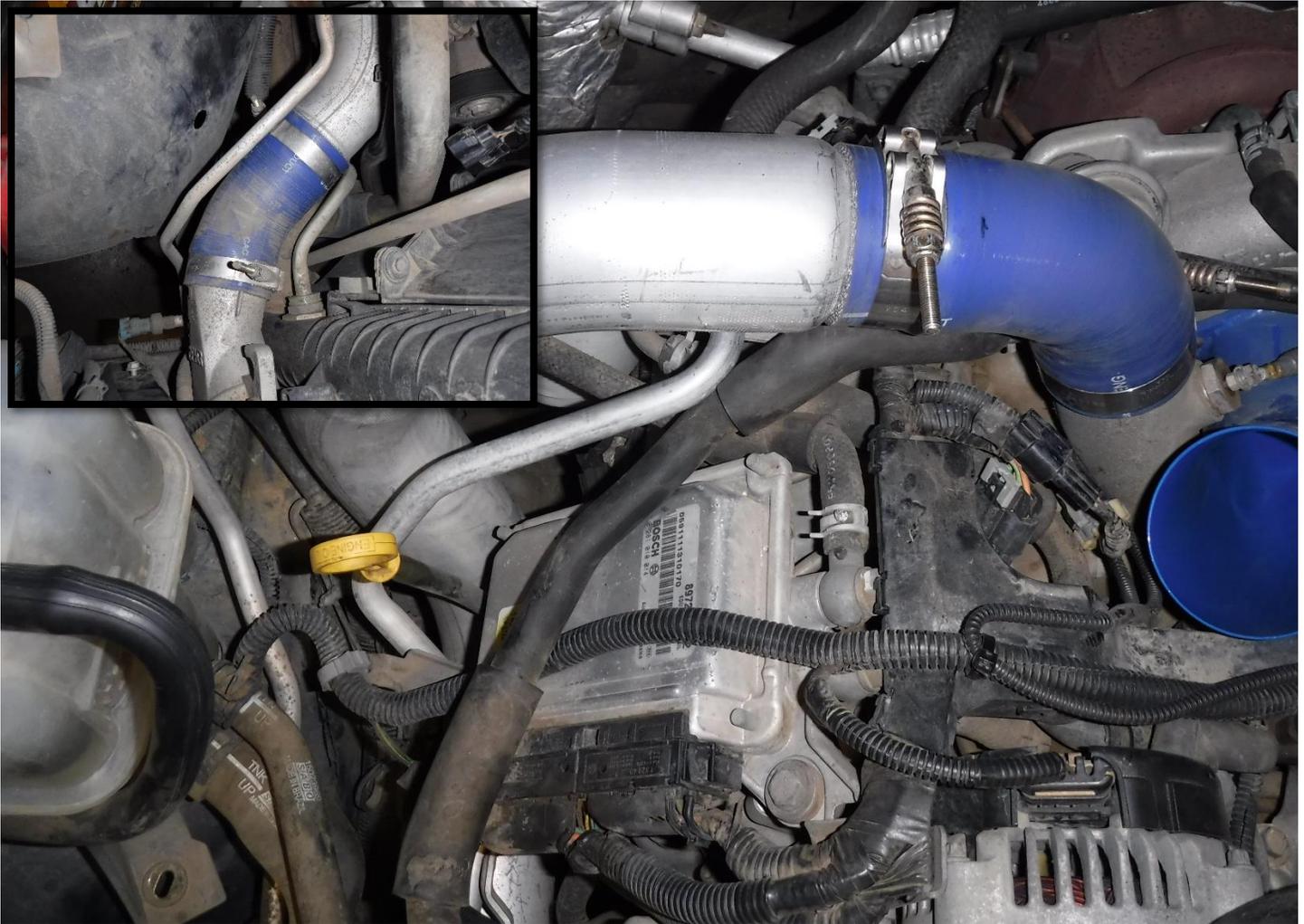
1. Park vehicle on level ground and engage the parking brake.
2. Disconnect both negative battery cables.
3. Open the petcock and begin draining coolant into a large drain pan.
4. Remove radiator cap and drain remainder of coolant from the system.
5. Loosen the screw securing the intake resonator to the vehicle, then remove the resonator from the air intake tube (if equipped).
6. Disconnect the electrical connection from the sensor on the air intake tube.



7. Loosen the clamps securing the air intake tube to the vehicle.
8. Remove the air intake tube from the vehicle.
9. Lift the air box out of the vehicle.
10. Remove the four (4) screws securing the air box mounting bracket to the vehicle, then remove the bracket from the vehicle.



11. Remove the plastic retaining clip securing the inner fender liner to the air box support bracket from the wheel well.
12. Remove the nut securing the coolant tank to the air box support bracket.
13. Loosen the two (2) screws securing the air box support bracket to the core support.
14. Lift the air box support bracket out of its saddle and remove the bracket from the vehicle.



15. Loosen the clamp securing the cold side intercooler tube coupling to the engine inlet.

16. Loosen the clamp securing the cold side intercooler tube coupling to the intercooler.

**Note: It may be necessary to use a pick to break the connection between the intercooler tube coupling and the intercooler in order to remove the intercooler tube from the vehicle**

17. Remove the cold side intercooler tube from the vehicle.



18. Loosen the clamp securing the hot side intercooler tube coupling to the turbo.

19. Loosen the clamp securing the hot side intercooler tube coupling to the intercooler.

**Note: It may be necessary to use a pick to break the connection between the intercooler tube coupling and the intercooler in order to remove the intercooler tube from the vehicle.**

20. Remove the hot side intercooler tube from the vehicle.

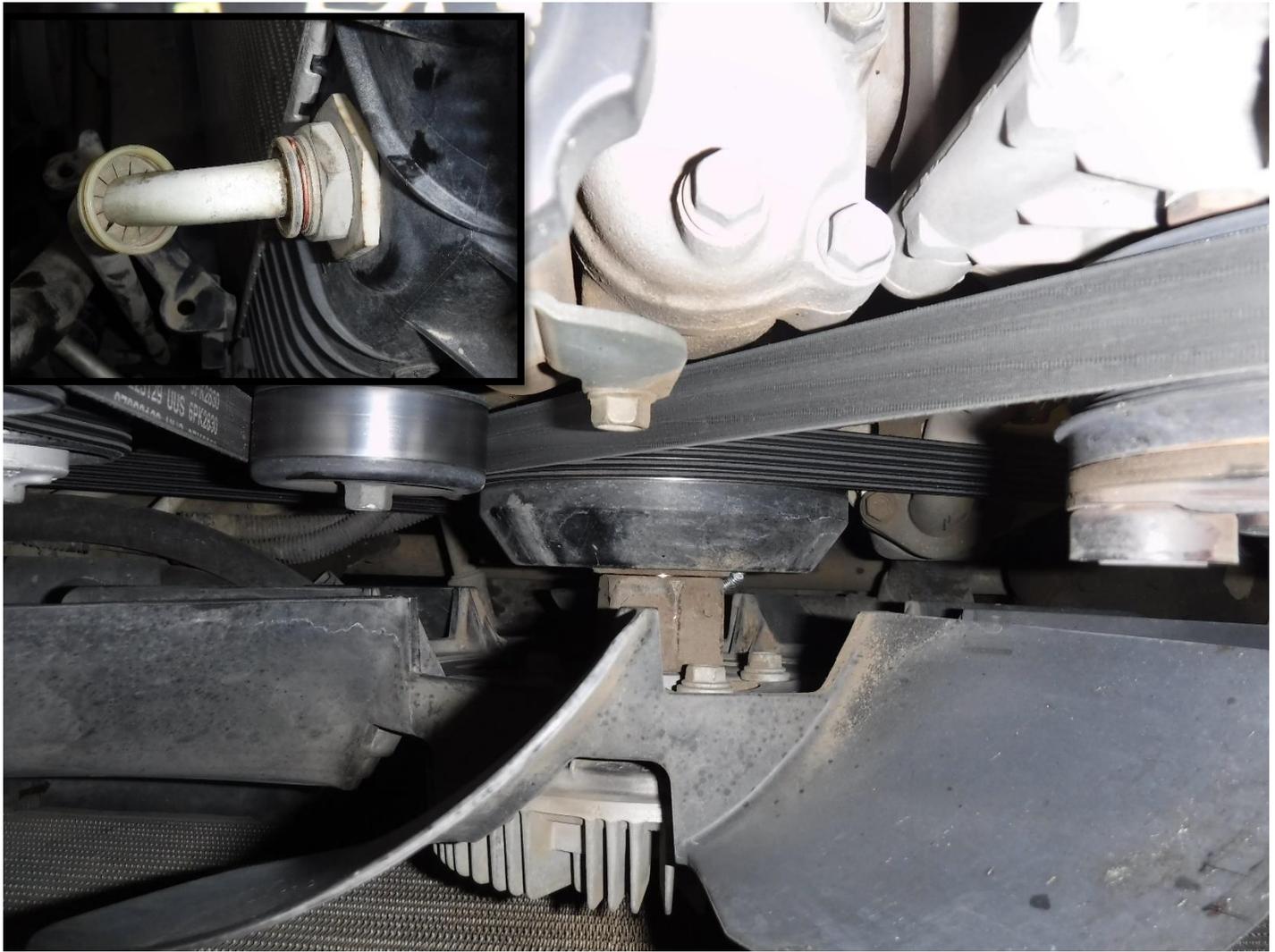


21. Remove the two (2) screws securing the computer to the fan shroud.

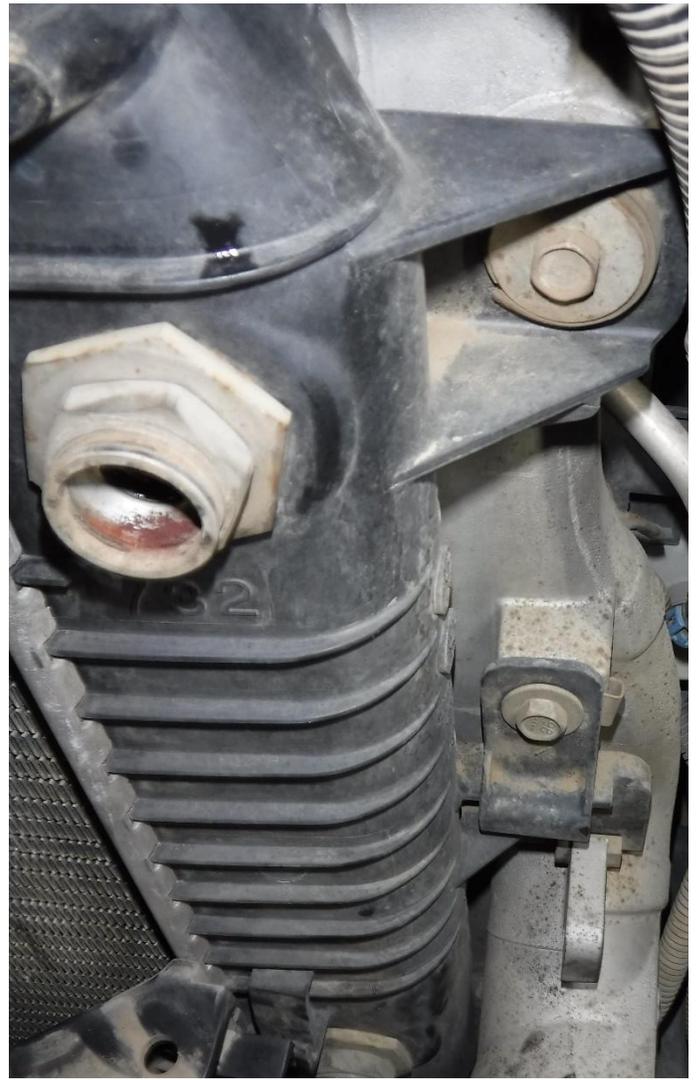
22. Lift the entire computer and plastic cover up out of its saddle and place the assembly off to the side.



23. Unclip the A/C hose from the upper fan shroud.
24. Remove the four (4) clips securing the upper fan shroud to the lower fan shroud.
25. Remove the two (2) screws remaining securing the upper fan shroud to the upper cross member.
26. Remove the upper fan shroud from the vehicle.



27. Remove the fan and fan clutch assembly from the vehicle.
28. Disconnect the over-flow hose from the radiator.
29. Disconnect the lower radiator hose from the radiator.
30. Slide the covers back on the transmission cooler lines and remove the clips securing the transmission cooler lines into to the fittings on the radiator.
31. Disconnect the transmission cooler lines from the fittings on the radiator.



32. Disconnect the upper radiator hose from the vehicle.
33. Unhook the lower fan shroud from the radiator.
34. Remove the two (2) lower screws securing the radiator into its lower mounts with the mounting tabs, set aside for reuse with the supplied aFe radiator.
35. Remove the two (2) upper screws securing the radiator to the cross member.
36. With some help, 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.**

37. Install the supplied transmission cooler fittings onto the aFe radiator.

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

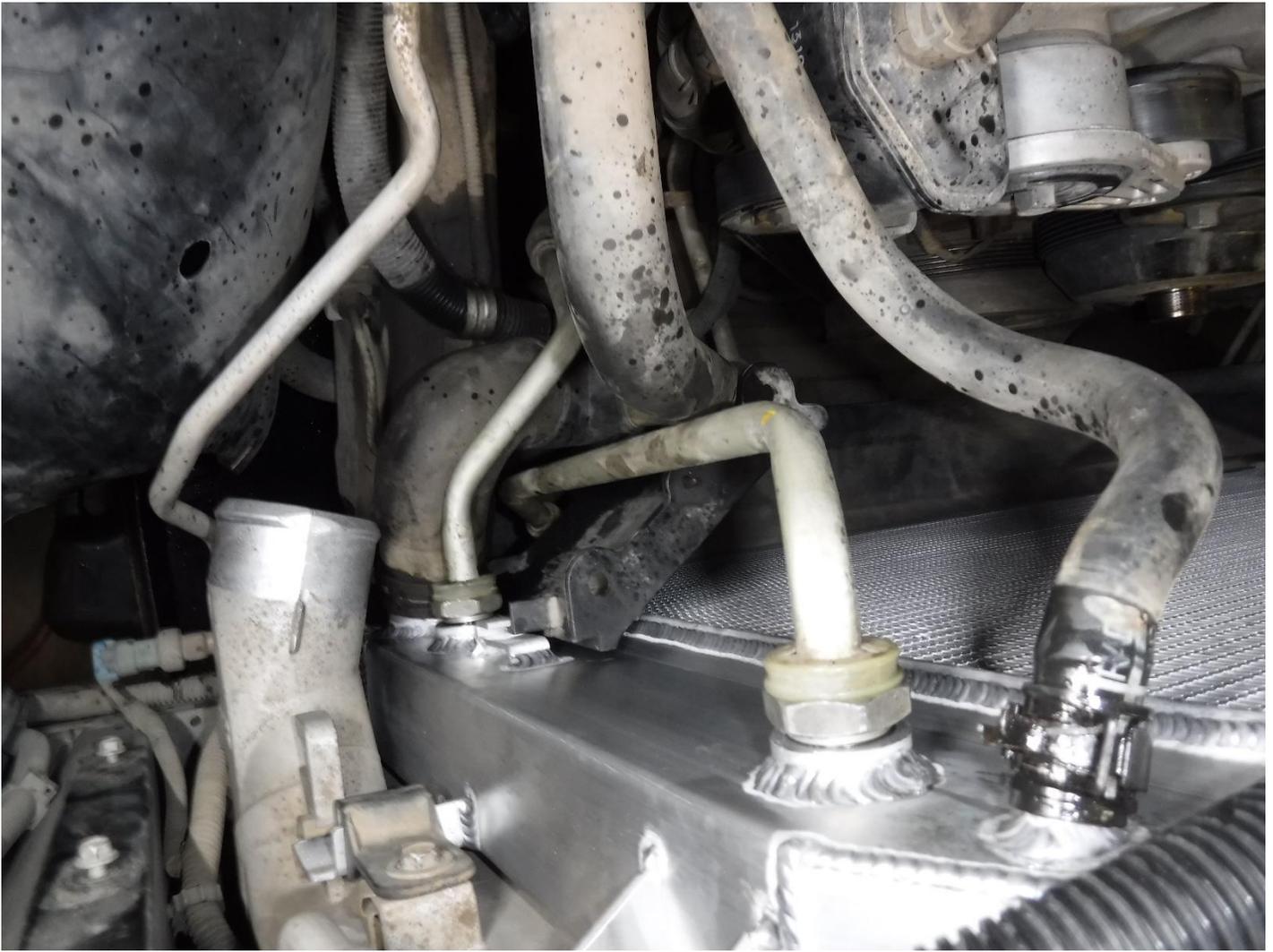
38. Install the supplied drain valve into the fitting on the back of the aFe radiator.

39. Transfer the upper rubber mounting grommets from the factory radiator to the aFe radiator.

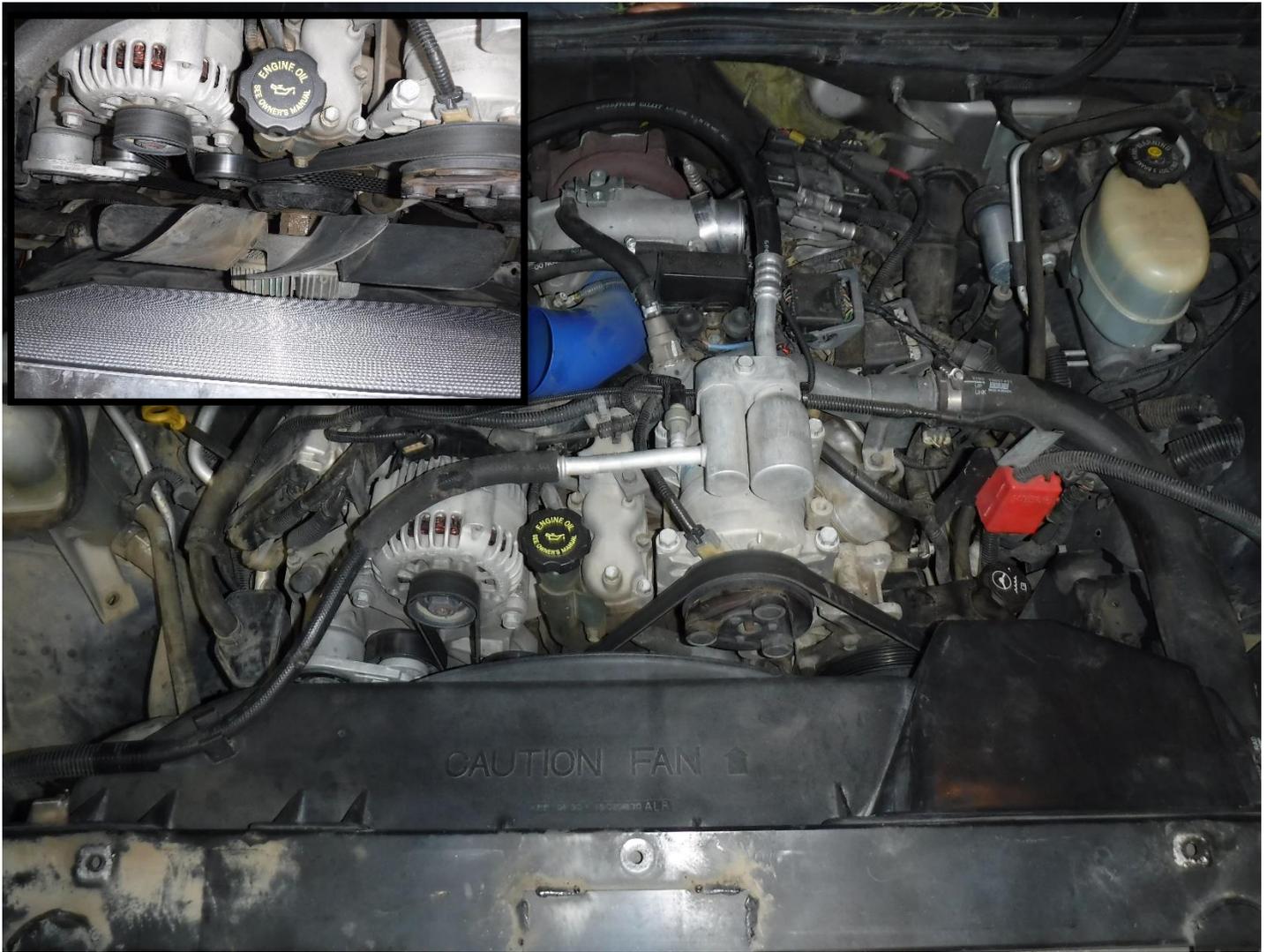
40. Ensure the lower mounting grommets are in their proper positions on the intercooler inside the vehicle.

41. With some help, install the aFe radiator into the vehicle, making sure the side mounts are in their proper locations.

42. Secure the aFe radiator to the intercooler using the factory mounting screws and brackets.



43. Hook the lower fan shroud onto the aFe radiator.
44. Reconnect the lower radiator hose.
45. Lubricate the end of the transmission cooler lines with transmission fluid.
46. Install the transmission cooler lines into the fittings on the aFe radiator.
47. Install the over-flow hose onto the aFe radiator.



48. Reinstall the fan assembly into the vehicle.
49. Reinstall upper fan shroud.
50. Reconnect A/C hose into the clip on the fan shroud.
51. Reinstall the computer and plastic cover onto the fan shroud.
52. Reconnect the upper radiator hose onto the aFe radiator.



53. Reinstall the hot side intercooler tube into the vehicle.

54. Ensure the hot side intercooler tube is not touching anything, then tighten the clamps securing the hot side intercooler tube and couplings to the turbo and intercooler.



55. Reinstall the cold side intercooler tube into the vehicle, do not tighten the clamps yet.
56. Reinstall the air box support bracket into the vehicle.
57. Ensure the cold side intercooler tube is not touching anything, then tighten the clamps securing the cold side intercooler tube and couplings to the engine inlet and intercooler.



58. Reinstall the air box mounting bracket.
59. Reinstall the air box and air intake tube.
60. Reconnect the electrical connection for the sensor on the air intake tube.
61. Reconnect the negative battery cables.
62. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.
63. Ensure coolant level is filled to the max line, and install the radiator cap.
64. Test drive the vehicle.
65. Use the proper procedure to check the transmission fluid level, top off if needed.
66. Let the vehicle cool down then check coolant level, top off if needed.
67. Install is now complete!

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

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