

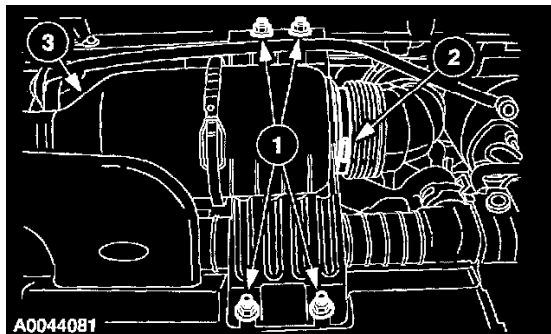
Intake Manifold: Service and Repair

Part 1 of 2

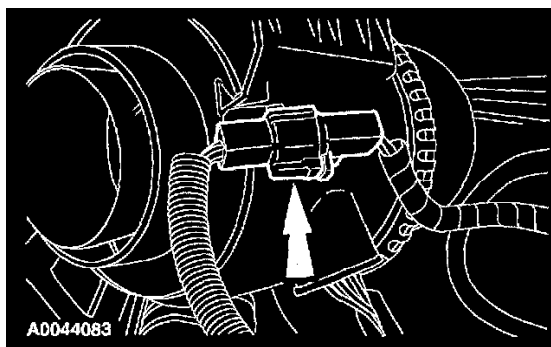
Intake Manifold - 5.4L

Removal

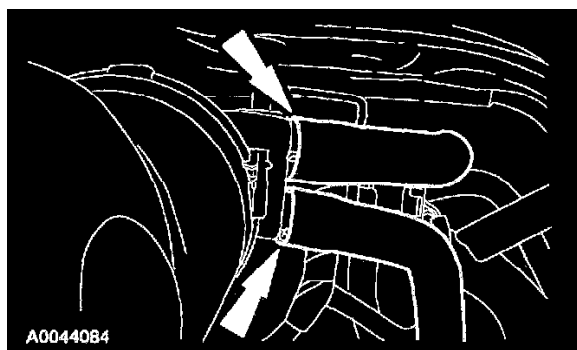
1. Disconnect the battery ground cable.
2. Remove the interior engine cover.
3. Disconnect the fuel hose spring lock couplings.
4. Drain the cooling system.



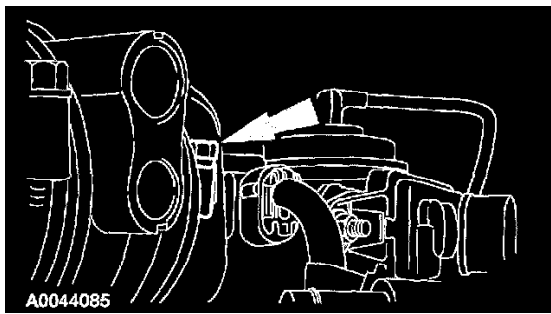
5. Position the Engine Air Cleaner (ACL).
 - 1 Remove the four bolts.
 - 2 Loosen the clamp.
 - 3 Position the ACL to gain access to the Mass Airflow (MAF) sensor electrical connector.



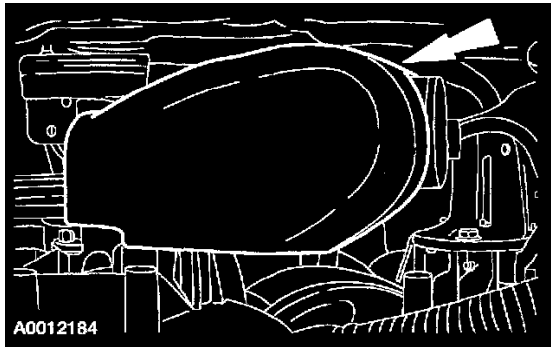
6. Disconnect the MAF sensor electrical connector and remove the ACL.



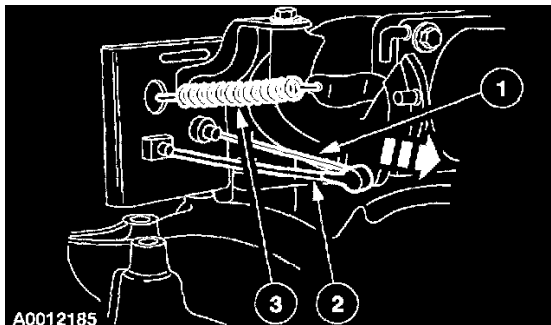
7. Disconnect the two hoses.



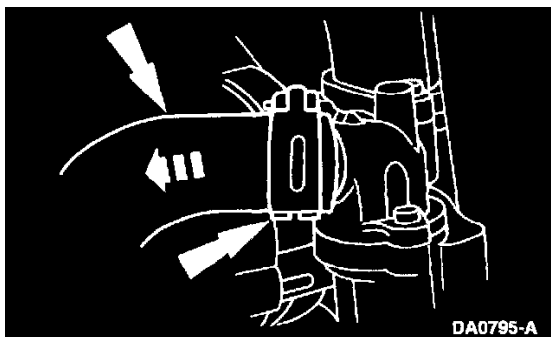
8. Loosen the clamp and remove the air cleaner outlet pipe.



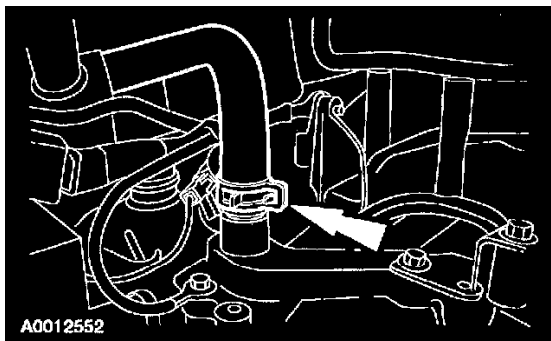
9. Remove the accelerator cable snow shield.



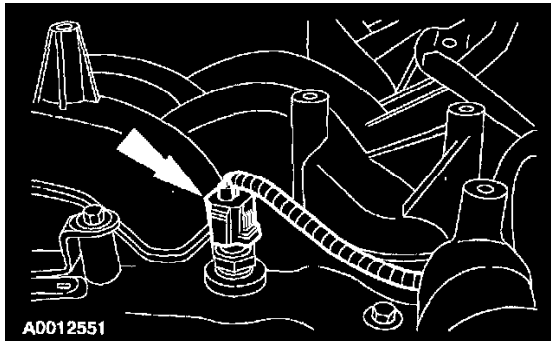
10. Disconnect the throttle body controls.
- 1 Disconnect the accelerator cable.
 - 2 Disconnect the speed control actuator cable.
 - 3 Remove the throttle return spring.



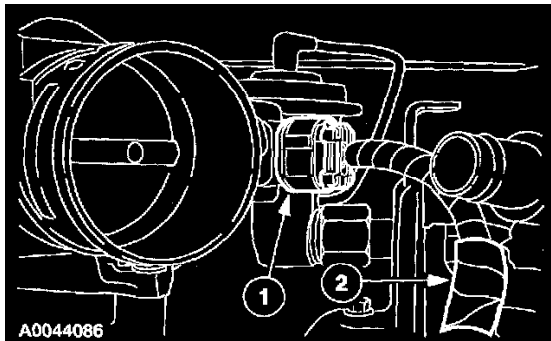
11. Compress and slide the hose clamp and disconnect the upper radiator hose.



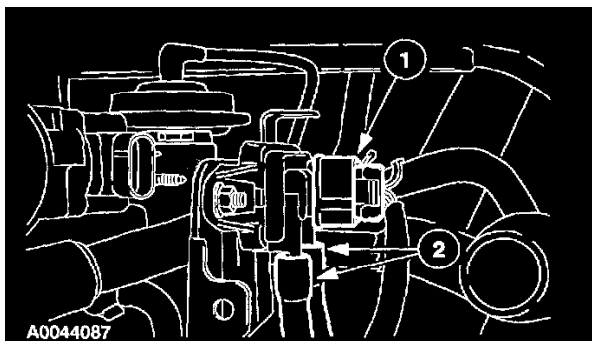
12. Disconnect the heater hose.



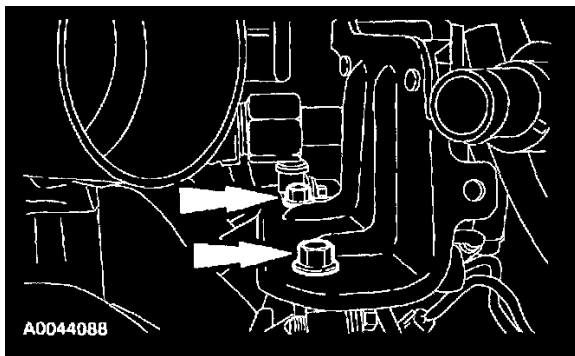
13. Disconnect the water temperature sensor electrical connector.



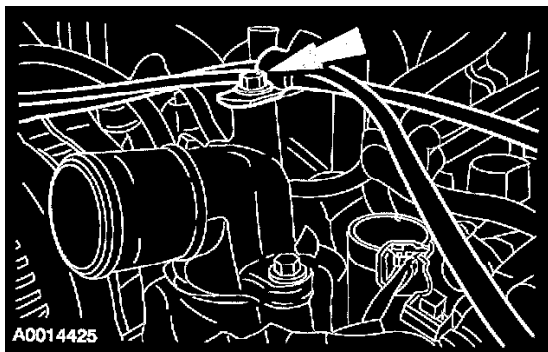
14. Disconnect the Throttle Position (TP) sensor.
- 1 Disconnect the TP sensor electrical connector.
 - 2 Detach the harness routing clip.



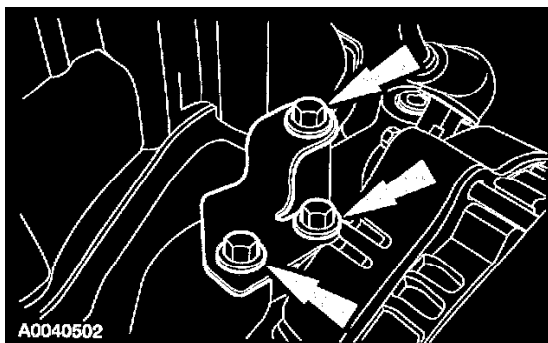
15. Disconnect the differential pressure feedback Exhaust Gas Recirculation (EGR) system.
- 1 Disconnect the electrical connector.
 - 2 Disconnect the two hoses.



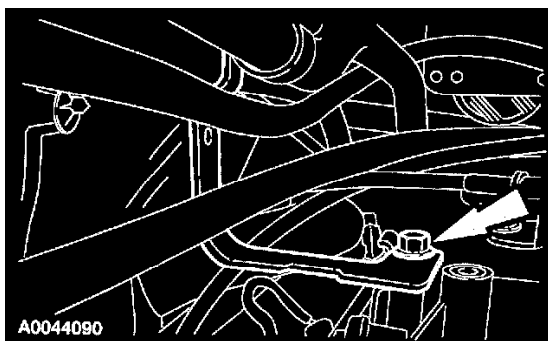
16. Remove the differential pressure feedback EGR system bracket.



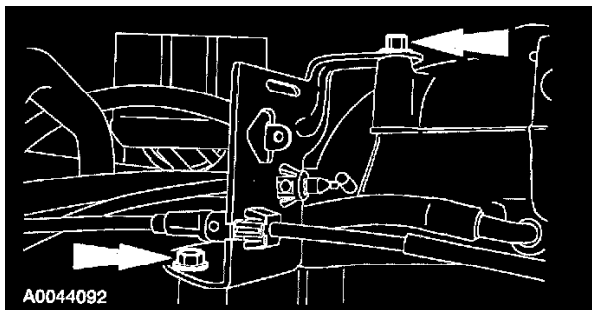
17. Remove the bolt and the bracket.



18. Remove the bolts and the generator upper support bracket.



19. Remove the bolt retaining the transmission fluid filler tube support bracket.



20. Remove the bolts and position the accelerator cable bracket and cables aside.