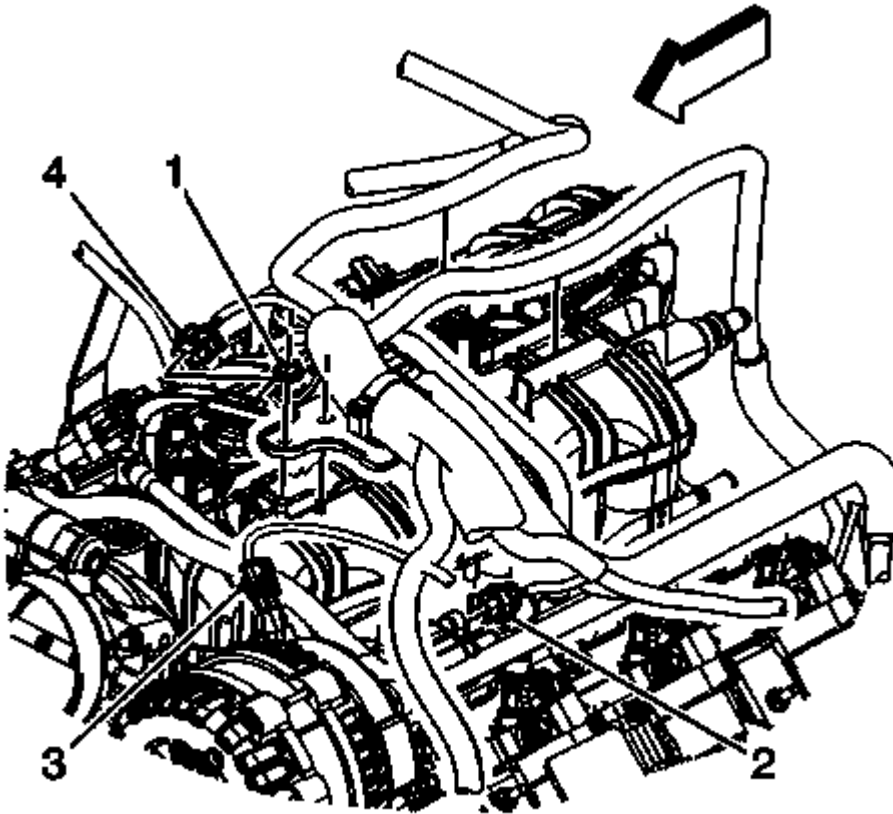
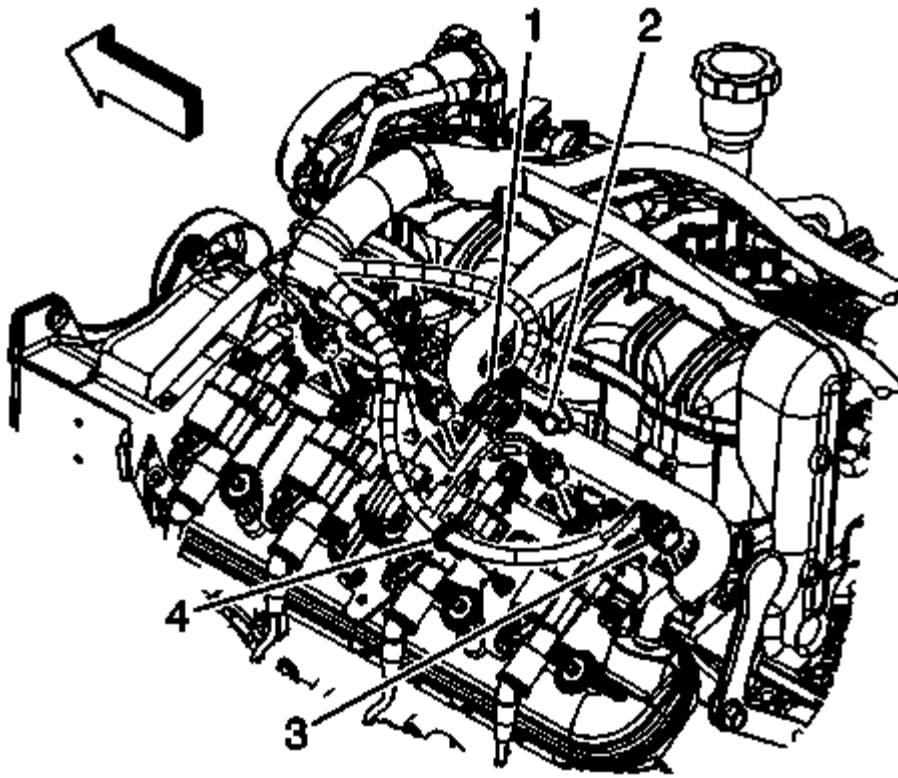


**INTAKE MANIFOLD REPLACEMENT (RPOS LY2, LY6)****Removal Procedure**

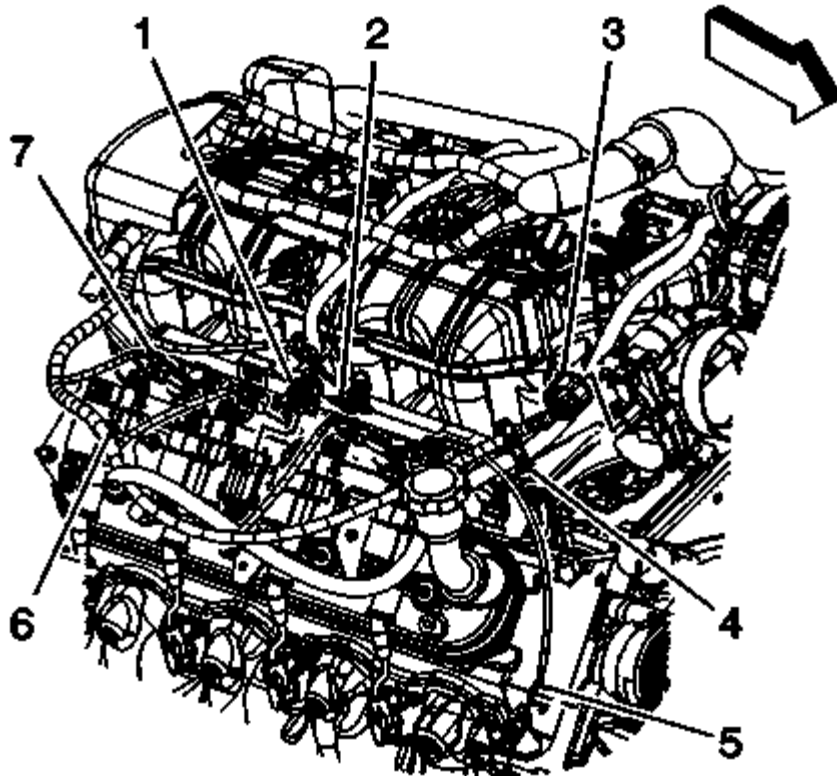
**Fig. 54: View Of Engine Harness Retainer Nut & Electrical Connectors**  
Courtesy of GENERAL MOTORS COMPANY

1. Remove the air cleaner outlet duct. Refer to **Air Cleaner Resonator Outlet Duct Replacement** .
2. Remove the generator. Refer to **Generator Replacement** .
3. Remove the engine harness retainer nut (1).
4. Remove the engine harness retainer from the stud and locator pin.
5. Disconnect the engine harness electrical connector (2) from the evaporative emission (EVAP) canister purge solenoid.
6. Disconnect the engine wiring harness electrical connector (4) from the manifold absolute pressure (MAP) sensor.



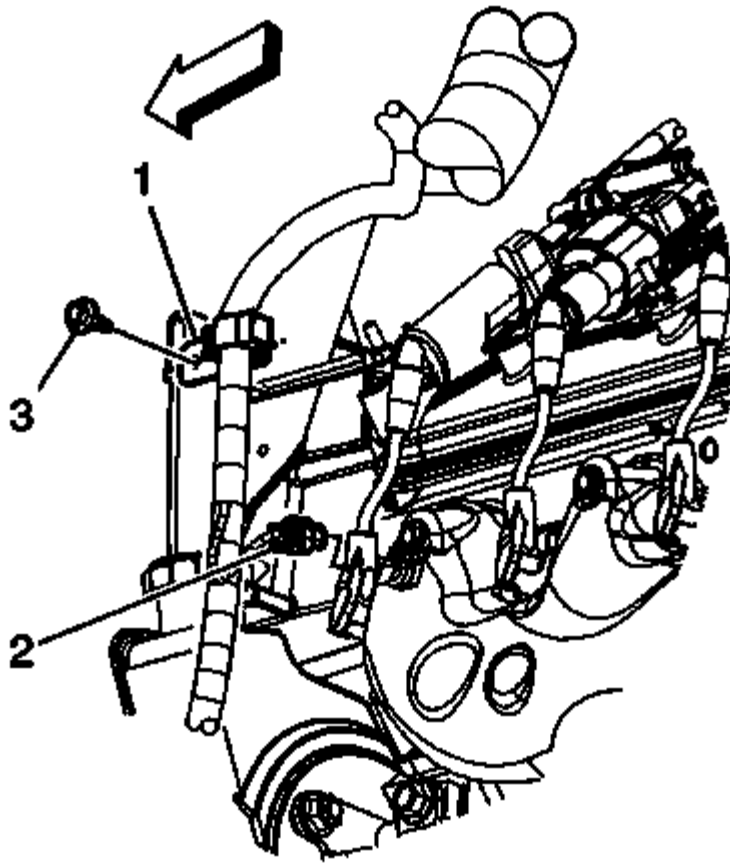
**Fig. 55: View Of CPA Retainer, Electrical Connectors & Engine Harness Clips**  
**Courtesy of GENERAL MOTORS COMPANY**

7. Remove the connector position assurance (CPA) retainer (1).
8. Disconnect the engine harness electrical connector (1) from the ignition coil harness electrical connector.
9. Disconnect the engine harness electrical connectors (3) from the left side fuel injectors.
10. Remove the engine harness clip (4) from the ignition coil bracket stud.



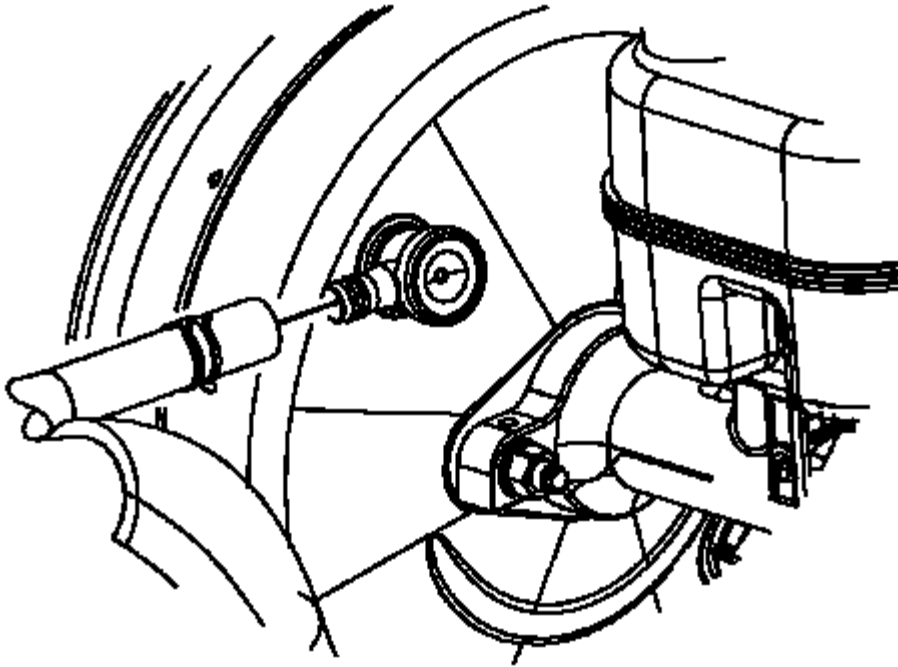
**Fig. 56: View Of CPA Retainer, Engine Harness Electrical Connectors & Harness Clips**  
**Courtesy of GENERAL MOTORS COMPANY**

11. Remove the CPA retainer (2).
12. Disconnect the engine harness electrical connector (1) from the ignition coil harness electrical connector.
13. Disconnect the engine harness electrical connector (3) from the throttle actuator.
14. Remove the engine harness clip (4) from the generator battery jumper cable.
15. Remove the engine harness clip (6) from the ignition coil bracket stud.
16. Disconnect the engine harness electrical connectors (7) from the right side fuel injectors.



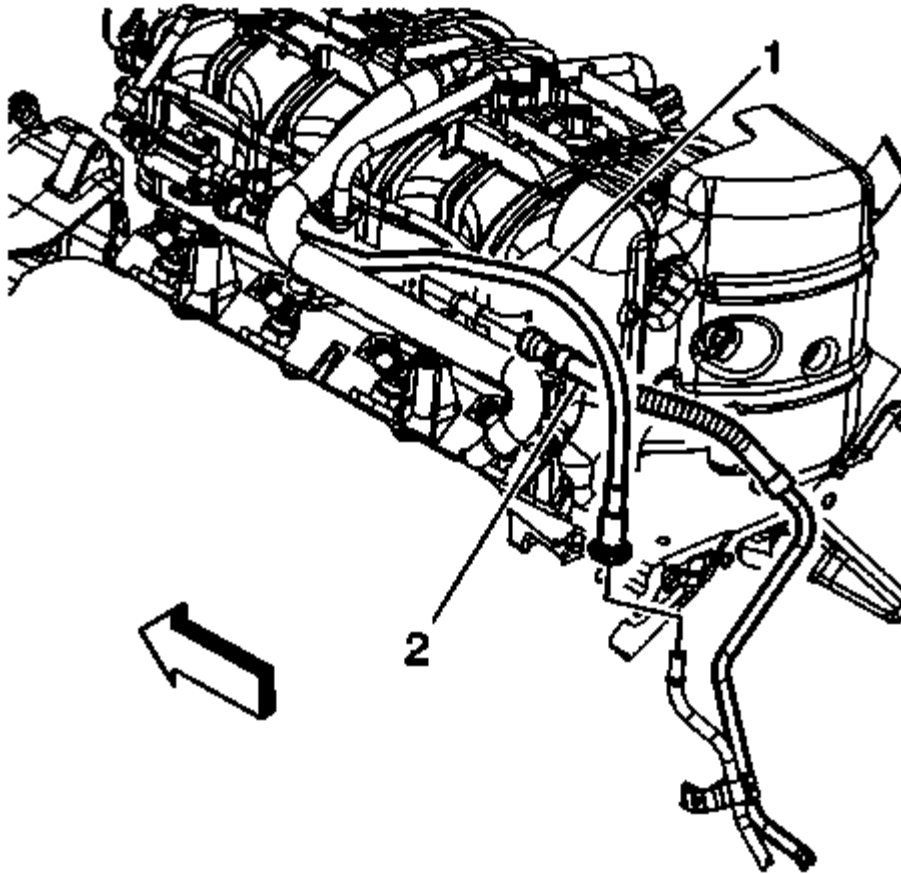
**Fig. 57: View Of Engine Wiring Harness, Clip, Bolt & Connector**  
**Courtesy of GENERAL MOTORS COMPANY**

17. Remove the engine harness clip (1) bolt (3).
18. Disconnect the engine harness electrical connector (2) from the engine coolant temperature (ECT) sensor.
19. Gather the engine harness branches and tie the harness up out of the way to the cowl panel.



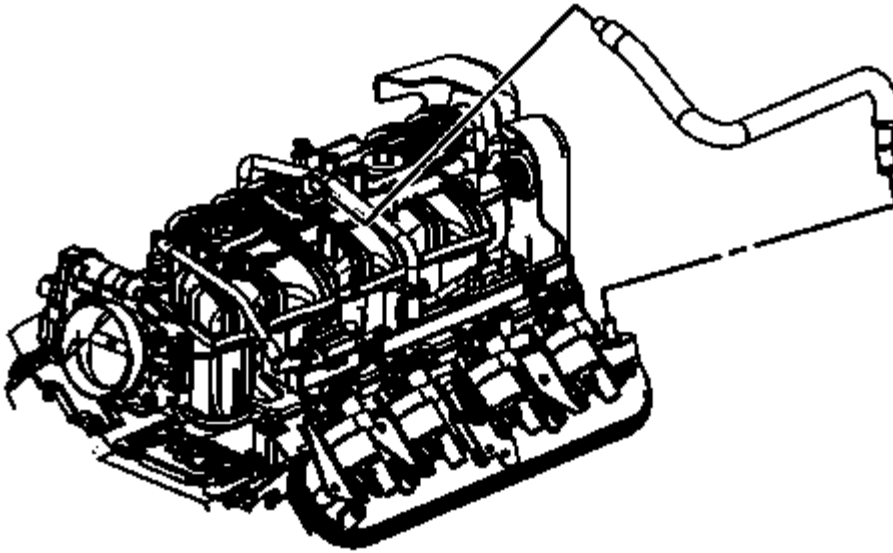
**Fig. 58: View Of Brake Booster Vacuum Hose & Booster Fitting**  
**Courtesy of GENERAL MOTORS COMPANY**

20. Reposition the brake booster vacuum hose clamp at the booster.
21. Remove the brake booster vacuum hose from the booster fitting.
22. Secure the brake booster vacuum hose to the intake manifold.



**Fig. 59: View Of EVAP Canister Purge Tube & Quick Connect Fitting**  
**Courtesy of GENERAL MOTORS COMPANY**

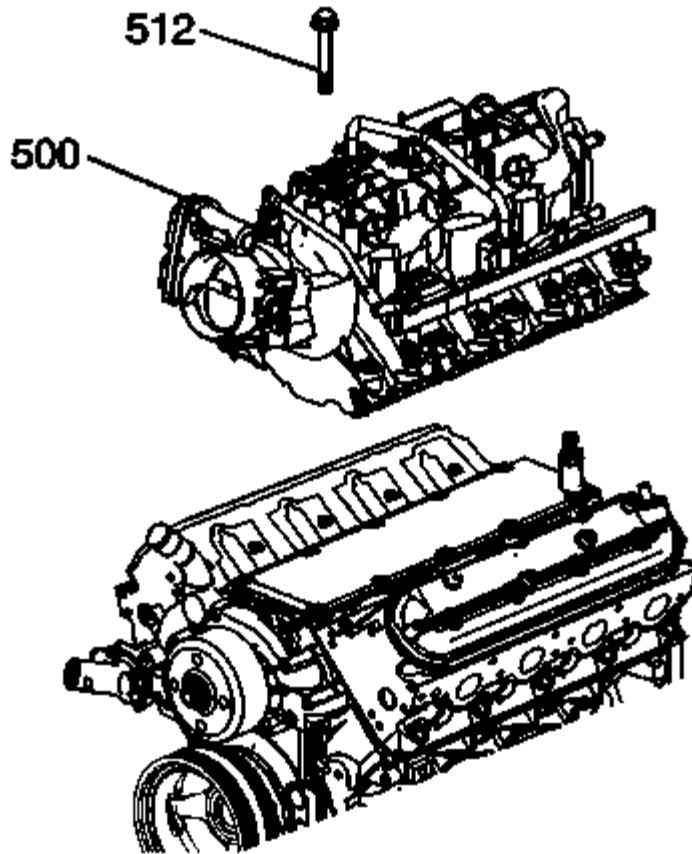
23. Disconnect the EVAP canister purge tube (1) quick connect fitting from the EVAP canister purge solenoid. Refer to **Plastic Collar Quick Connect Fitting Service** .
24. Disconnect the fuel feed line quick connect fitting (2) from the fuel rail. Refer to **Metal Collar Quick Connect Fitting Service** .



**Fig. 60: View Of PCV Hose**

**Courtesy of GENERAL MOTORS COMPANY**

25. Remove the positive crankcase ventilation (PCV) hose from the intake manifold fitting.
26. Position the hose out of the way.



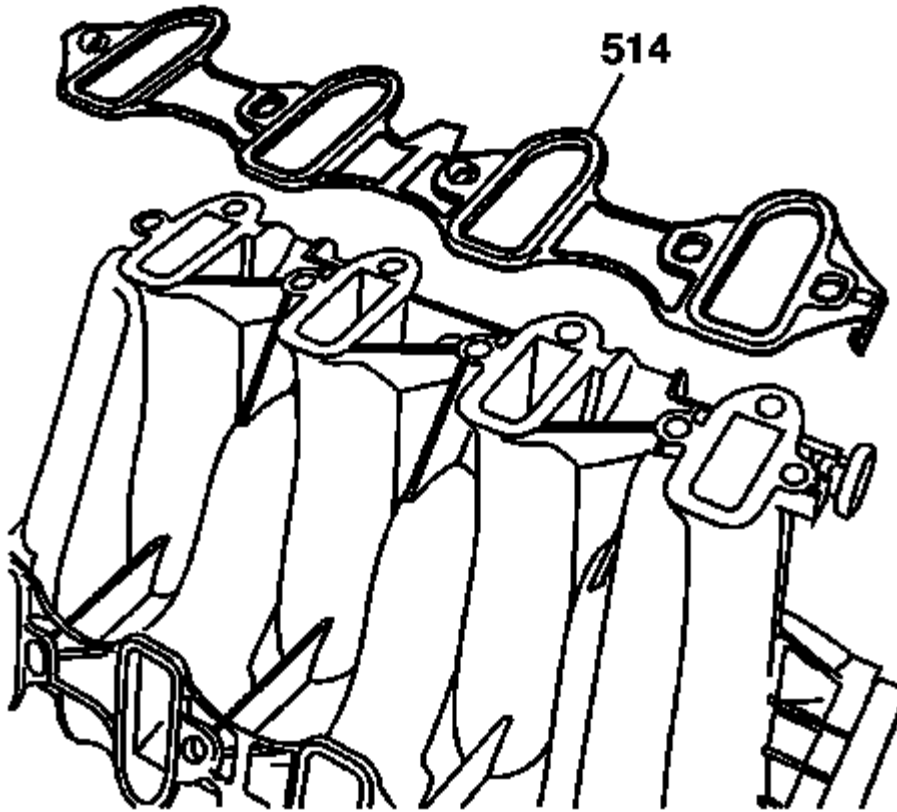
**Fig. 61: View Of Intake Manifold & Bolts**  
Courtesy of GENERAL MOTORS COMPANY

27. Loosen the intake manifold bolts (512).

**NOTE:** The aid of an assistant may be helpful in holding the engine harness up out of the way so the upper intake manifold cover does not get caught against the engine harness.

28. Remove the intake manifold (500).
29. Cover the cylinder head passages in order to prevent dirt or debris from entering the passages.





**Fig. 62: View Of Intake Manifold-To-Cylinder Head Gasket**  
**Courtesy of GENERAL MOTORS COMPANY**

30. Remove and discard the intake manifold gaskets (514).