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To: DDG Headquarters and Branches	Category: Service
From: Susan Christophersen, Service and Training	Line(s): 21

Subject: Check Engine Light On, DTC P0410 Set (Replace AIR Pump, Install New Hose Assembly)

Description

Models Affected

1999-2003 Chevrolet Blazer, S10
1999-2001 GMC Jimmy
1999-2003 GMC Sonoma
1999-2001 Oldsmobile Bravada

All with 2.2L or 4.3L Engine (VINs 4, H, 5, W -- RPOs LN2, L43, L35)

Condition

Some owners may comment on the check engine light being illuminated. Upon investigation, the technician may find a DTC P0410 indicating there is a concern in the secondary air injection system.

Cause

This concern may be attributed to water that may have collected in the AIR pump or the vent solenoid and frozen or corroded the pump.

Correction

Replace the AIR pump and install a new inlet hose and solenoid tube assembly using the following procedure:

1. Prep vehicle.
2. Raise vehicle on hoist.
3. Remove shield covering AIR pump.
4. Remove hose and vacuum lines from pump and solenoid.
5. Remove AIR pump inlet hose. Do not re-use.
6. Disconnect electrical connectors from pump and solenoid.
7. Remove pump mounting bolts and pump.
8. Transfer isolators from the old pump to the new pump.
9. Install new AIR pump and bolts to vehicle. Tighten the bolts to 17N·m (12.5 lb ft).
10. Route new hose assembly up between engine and fender. It should come up near the area between the battery and the coolant bottle.
11. Connect new inlet hose to pump inlet.
12. Connect old outlet hose to pump outlet.
13. Connect electrical connector to pump.
14. Connect electrical connector for solenoid to connector on the new hose assembly.

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15. Connect the hose with the white nipple to the vacuum source hose.
16. Connect the remaining hose to the shut off valve.
17. Install shield covering AIR pump.
18. Lower vehicle.
19. Remove coolant reservoir nut nearest the battery.
20. Route new hose assembly between the battery and the coolant reservoir with the solenoid on top.
21. Install the solenoid bracket onto the coolant reservoir stud and reinstall the nut back into the vehicle.
22. Use a wire tie to keep the new hose assembly away from the engine. On four cylinder engines, tie to the AIR outlet hose. On six cylinder engines, tie to an available hole in the radiator fan shroud.

Part Information

Part Number	Description	Quantity
12590627 (Dealer item only)	Hose Assembly - Secondary Air Injection	1
*215-425 (12568324)	Pump, Secondary Air Injection 2001 L35 2000-2003 L43/LN2	1
*215-364 (12560095)	Pump, Secondary Air Injection 1999-2000 L35	1

*Parts are currently available from ACDelco.

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