



# Service Bulletin

File In Section: 06 - Engine/Propulsion System

Bulletin No.: 02-06-04-024D

Date: September, 2005



## TECHNICAL

**Subject:** Service Engine Soon (SES)/Check Engine Light MIL Illuminated, Secondary Air Injection Reaction (AIR) Pump Ingesting Water and DTC P0410 Set (Replace Secondary AIR Pump and Inlet Hose Assembly)

**Models:** 2000-2004 Cadillac DeVille  
Built Prior To March 30, 2004  
2001-2004 Cadillac Seville  
2001-2003 Oldsmobile Aurora

This bulletin is being revised to correct a part number listed in the bulletin text. Please discard Corporate Bulletin Number 02-06-04-024C (Section 6 — Engine).

### Condition

Some customers may comment on the "Service Engine Soon" (U.S.) or "Check Engine Soon" (Canada) malfunction indicator lamp (MIL) being illuminated.

Technicians may find these additional conditions:

- DTC P0410 set.
- Evidence of water in the Secondary Air Injection Reaction (AIR) Pump.
- Secondary AIR Pump shorted out/inoperative.

### Cause

This condition may be due to water being ingested at the secondary air injection reaction (AIR) pump inlet hose, causing the pump to short out or seize up.

### Diagnostic Information

#### DTC P0410

- Aurora — For diagnostic information on DTC P0410, refer to SI Document ID# 866842.
- DeVille — For diagnostic Information on DTC P0410, refer to SI Document ID# 868006.
- Seville — For diagnostic Information on DTC P0410, refer to SI Document ID# 1275612.

If the diagnostic information above indicates a faulty AIR pump, follow the correction procedure below.

### Correction

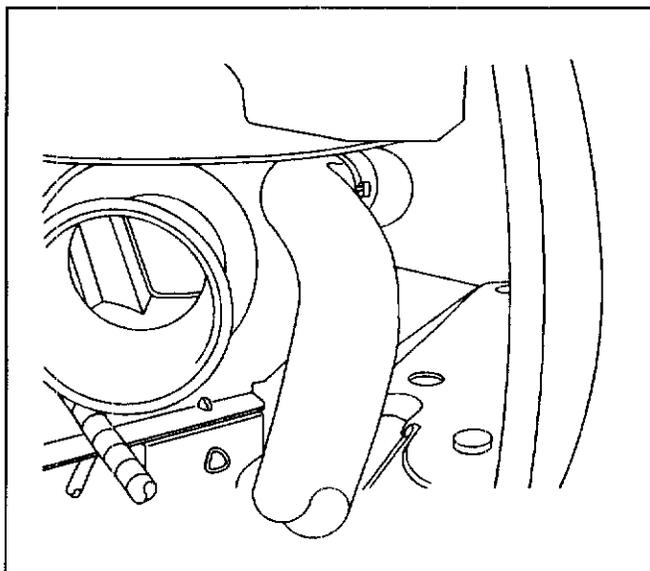
#### Aurora and DeVille

**Notice:** A new Secondary AIR Pump Inlet Hose Assembly, P/N 15783305, is now available and must be installed if the AIR pump is replaced. Failure to replace and reroute the AIR Pump Inlet Hose when servicing the AIR pump may result in a repeat AIR pump failure.

1. Turn the wheels to the left.
2. Open the hood and install fender covers
3. On DeVille models, remove the upper filler panel. Refer to SI Document ID# 477645.

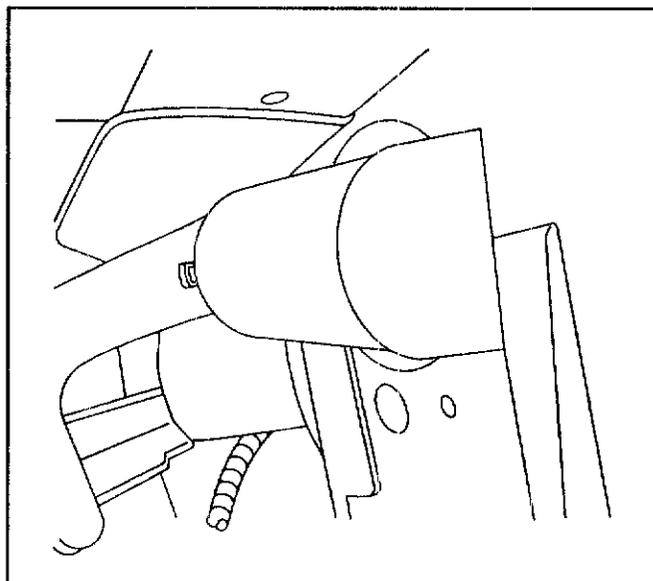
4. Remove the left headlamp assembly. Refer to:
  - Aurora — Headlamp Replacement, SI Document ID# 637921.
  - DeVille — Headlamp Replacement, SI Document ID# 462164.
5. Remove the exiting AIR inlet hose retainer located between the inner and the outer fender.
6. Remove the secondary AIR pump. Refer to:
  - Aurora — Secondary AIR Injection Pump Replacement. SI Document ID# 722625.
  - DeVille — Secondary Air Injection (AIR) Pump Replacement, SI Document ID# 722518.
7. Remove the AIR pump inlet hose from the vehicle.
8. Install the new AIR pump, P/N 25770944. Refer to:
  - Aurora — Secondary AIR Injection (AIR) Pump Replacement SI Document ID# 722625
  - DeVille — Secondary Air Injection (AIR) Pump Replacement SI Document ID# 722518
9. Remove the left front inner fender splash shield retainers.
10. Reposition the splash shield to allow access for the new hose assembly installation.
11. Install the new AIR pump inlet hose assembly, P/N 15783305.

**Important:** Located on the inner fender behind the air box there is a oval stamped hole. The new AIR filter must snap into this hole in order for the AIR pump to avoid ingesting water.



1594244

12. Route the new AIR pump inlet hose between the left inner and out fenders as shown above.



1594245

**Notice:** Secure the new AIR pump inlet hose filter into the opening on the inner fender as shown above. Failure to secure the filter in the inner fender as shown below may result in a repeat pump failure.

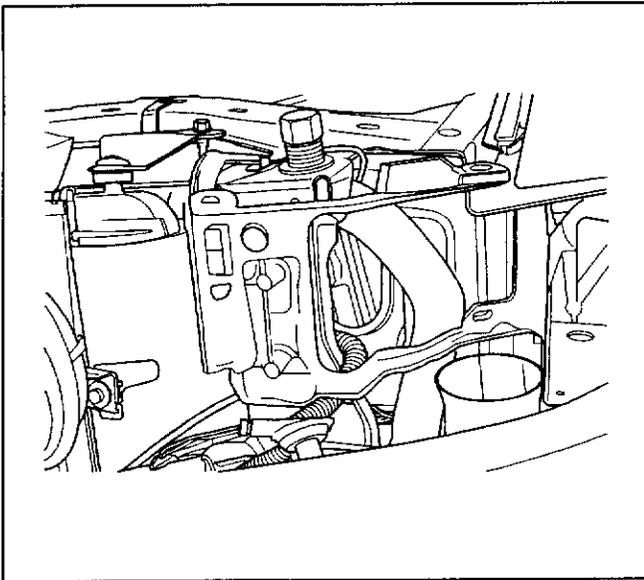
13. Snap the filter into the inner fender opening as shown above.
14. Reposition the inner fender splash shield into position.
15. Install the inner fender splash shield retainers.
16. Lower the vehicle
17. Install the left headlamp assembly. Refer to:
  - Aurora — Headlamp Replacement, SI Document ID# 637921.
  - DeVille — Headlamp Replacement, SI Document ID# 462164.
18. On DeVille models, install the upper filler panel. Refer to SI Document ID# 477645.
19. Remove the fender covers and close the hood.
20. With a scan tool clear the DTC's and road test the vehicle.

#### Seville

**Notice:** A new Secondary AIR Pump Inlet Hose Assembly, P/N 15783309, is now available and must be installed if the AIR pump is replaced. Failure to replace and reroute the AIR Pump Inlet Hose when servicing the AIR pump may result in a repeat AIR pump failure.

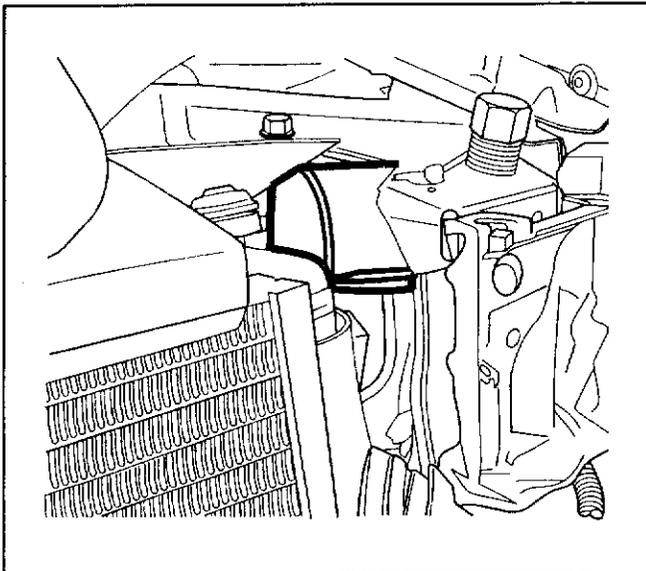
1. Open the hood and install fender covers
2. Remove the upper filler panel. Refer to Filler Panel Replacement - Upper in Body Front End (SI Document ID# 540569).
3. Remove the left headlamp assembly. Refer to:
  - Headlamp Replacement (SLS, w/o TT6, TT7 or TT8), SI Document ID# 692955.
  - Headlamp Replacement (SLS and STS w/TT6, TT7 or TT8), SI Document ID# 773808.
4. Remove the AIR hose retainer.

5. Remove the Secondary Air Injection (AIR) Pump. Refer to Secondary Air Injection (AIR) Pump Replacement (SI Document ID# 722518).
6. Remove the AIR hose assembly.



1630803

7. Install the new hose and filter assembly, P/N 15783309, behind the headlamp mounting bracket as shown above.
8. Install the new AIR pump, P/N 25770944. Refer to Secondary Air Injection (AIR) Pump Replacement (SI Document ID# 722518).
9. Lower the vehicle



1630804

**Notice:** It is critical that the new AIR inlet hose filter opening is facing downward when installed on the vehicle. Failure to mount the opening facing downward may result the AIR pump ingesting water, causing pump failure.

10. Secure the new AIR hose filter with a plastic tie strap to the upper radiator support with the filter opening facing downward as shown above.
11. Reinstall the headlamp assembly. Refer to:
  - Headlamp Replacement (SLS, w/o TT6, TT7 or TT8), SI Document ID# 692955.
  - Headlamp Replacement (SLS and STS w/TT6, TT7 or TT8), SI Document ID# 773808.
12. Reinstall the upper filler panel. Refer to Filler Panel Replacement - Upper in Body Front End (SI Document ID# 540569).
13. Use a scan tool clear the DTCs and road test the vehicle.

**Parts Information**

Part Number	Description
25770944	Pump Asm-Secondary AIR
15783305	Hose Asm-Secondary AIR Pump (Inlet) (Aurora and DeVille)
15783309	Hose Asm-Secondary AIR Pump (Inlet) (Seville)

**Warranty Information**

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J6052	Secondary AIR Injection Pump and Hose Assembly - Replacement	0.9 hr*

\*This is a unique labor operation time and is to be used only with this bulletin.

