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#01-06-04-011: Technical - Water in AIR Pump and/or DTC P0410, P0412, P0415, P0416, P0100, P0101, P0102 or DTC 48 (AIR System Disable Procedure) - (Feb 23, 2001)

Subject: Water in AIR Pump and/or DTC P0410, P0412, P0415, P0416, P0100, P0101, P0102 or DTC 48 (AIR System Disable Procedure)



Models: 1995-1996 Buick Roadmaster
1995-1996 Cadillac Fleetwood
1995-1996 Chevrolet Caprice, Impala SS
with 4.3L or 5.7L Engine (VINs W, P -- RPOs L99, LT1)

Condition

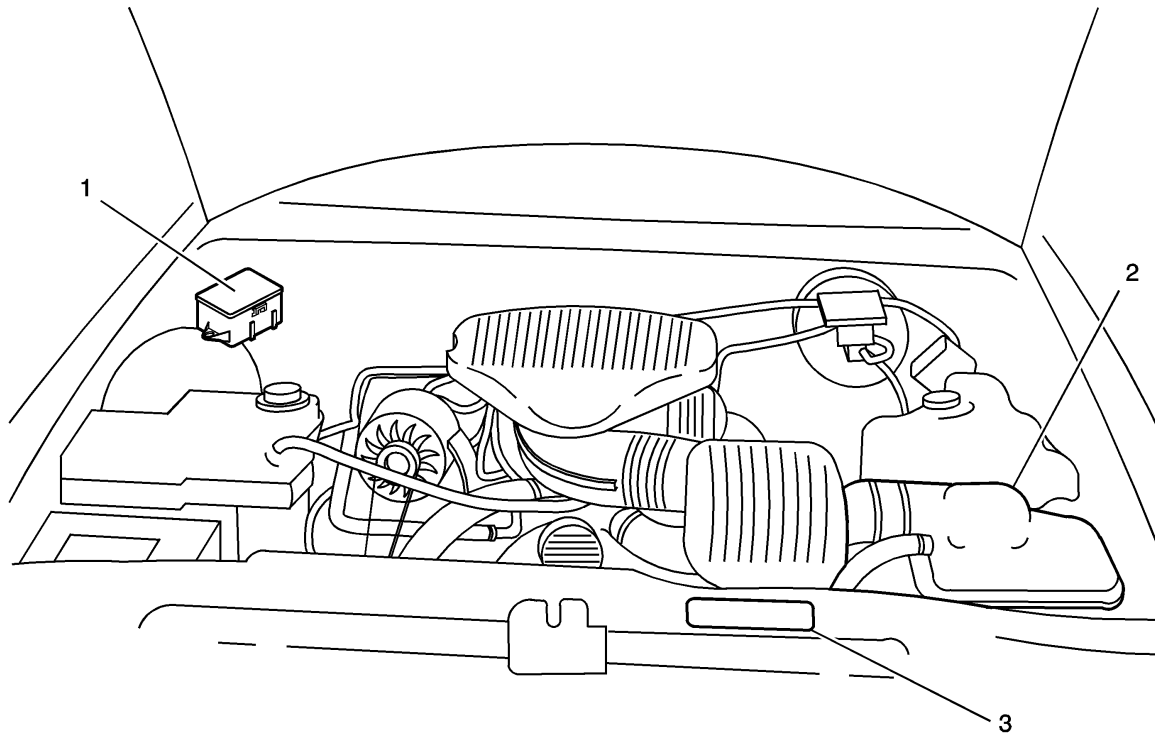
- Some customers may comment of a hesitation during heavy/full throttle acceleration.
- A 1996 vehicle may also set any of the following DTCs:
 - P0410
 - P0412
 - P1415
 - P1416
 - P0100
 - P0101
 - P0102
- A 1995 vehicle may set a DTC 48.
- There will also be evidence of water in the AIR pump.

Cause

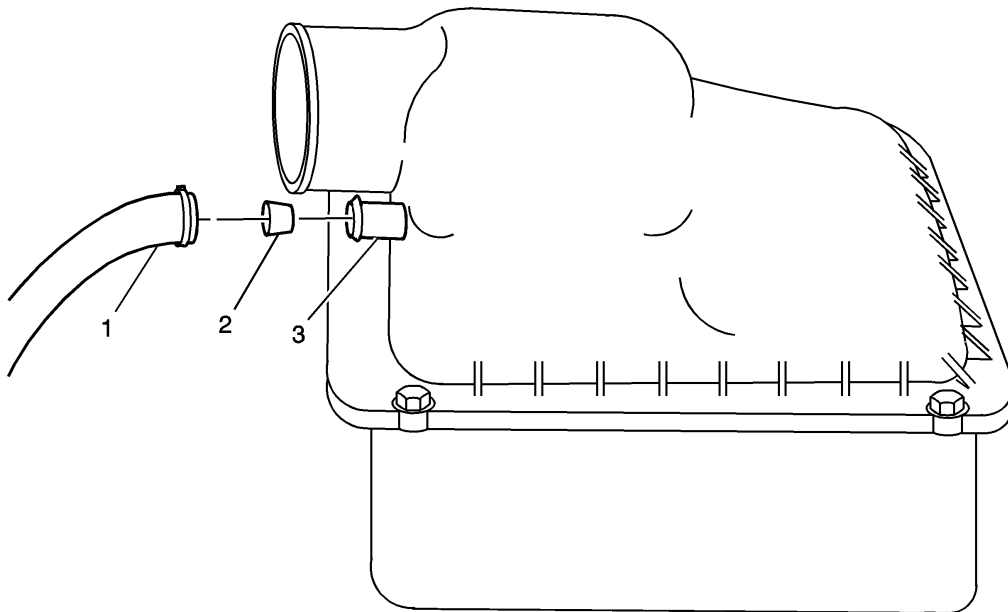
Under high engine speed and load conditions, hot exhaust gasses may leak past the air check valves. As the exhaust gasses in the air tube cool, water vapors collect into the AIR pump. As the vehicle is driven, condensation from the AIR pump may come into contact with the Mass Airflow Sensor through the AIR inlet hose. This condition may cause a hesitation on acceleration and may also set the DTCs.

Correction

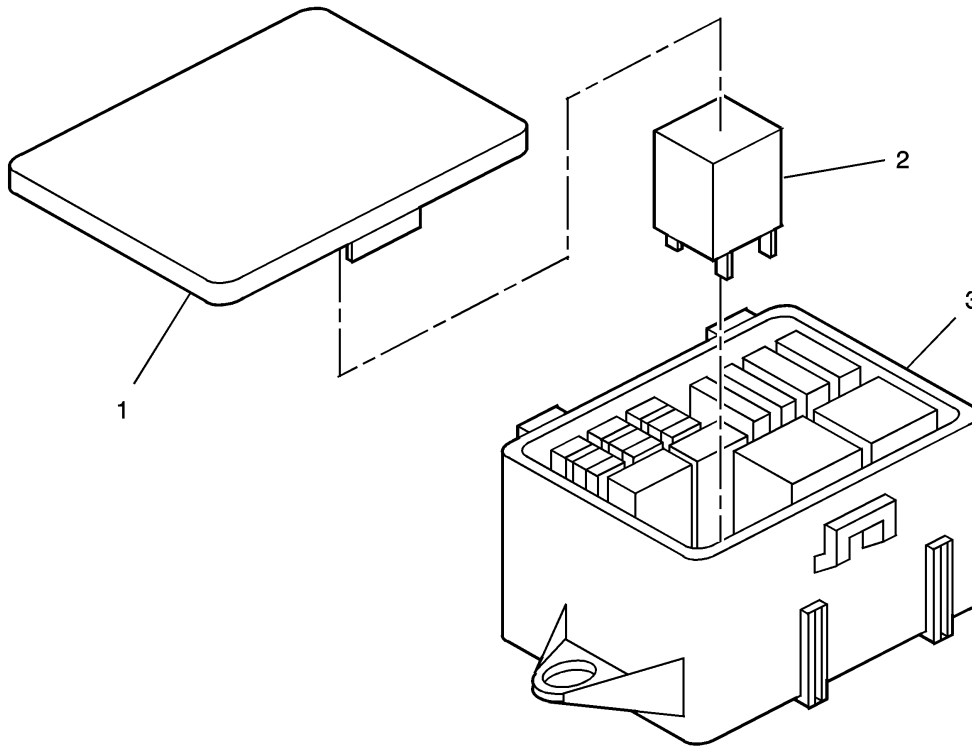
To correct this condition, a Secondary AIR Injection Pump disable procedure has been developed. (It has been determined that the Secondary AIR Injection system is not required to meet emission requirements for these vehicles only.)



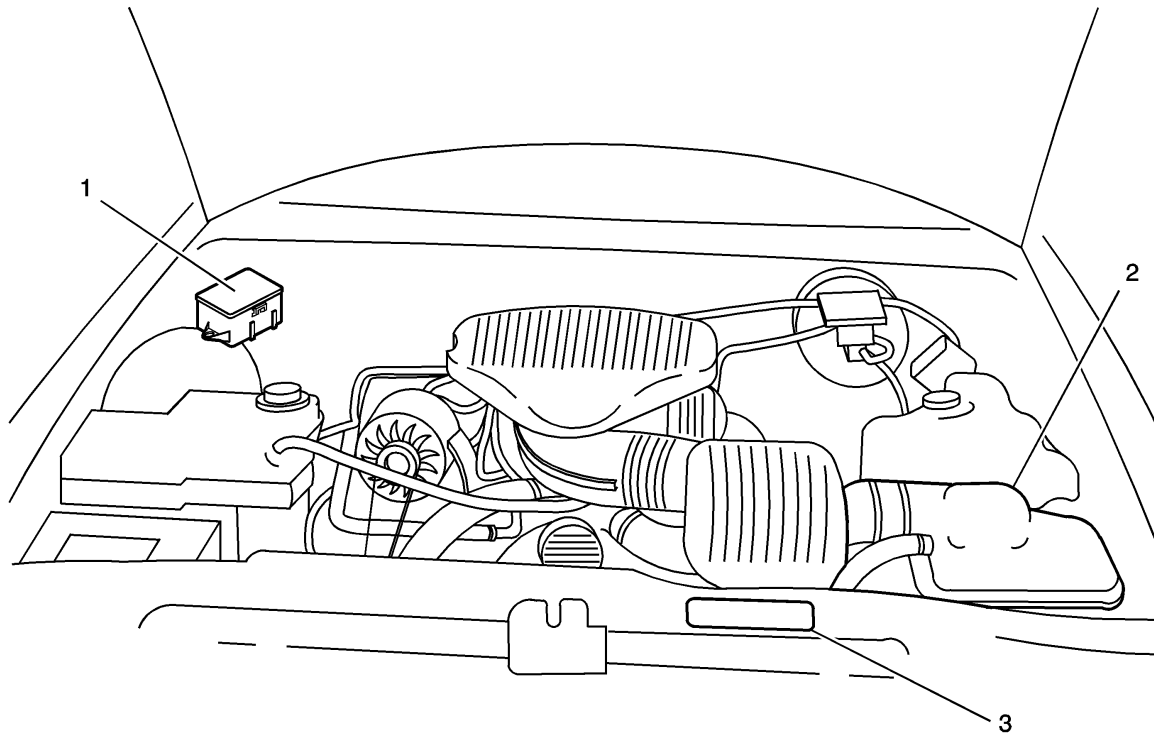
- Locate the relay center (1) and air cleaner box (2).



- Remove the AIR hose and clamp (1) from the air cleaner box.
- Insert the plug (2) into the air cleaner box AIR hose inlet (3).
- Install the AIR hose and clamp (1) to the air cleaner box.



- Remove the cover (1) from the relay center (3).
- Remove AIR pump relay (2) from the relay center (3).
- Install the relay cover (1).



- Install new emission label to radiator support (3).
- Update vehicle calibration. (1995 4.3 L L99 Caprice, and 1996 vehicles)

Parts Information

Part Number	Description	Qty
12569122	AIR Inlet Hose Plug	1
12569123	New Emission Label	1

Parts are currently available from GMSPO.

Calibration Information

The Calibrations are electronic calibrations and are NOT available from GMSPO. Calibrations will be available from Techline starting February 2001, on the TIS 2000 version TIS 2.0/2001 data update or later.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J6930	AIR Disable Procedure	0.2 hr.
This is a unique labor operation number for use only with this bulletin. This number will not be published in the Labor Time Guide.		

1995 4.3 L (RPO L99) Caprice and 1996 vehicles should also use this add time for reprogramming:

Labor Operation	Description	Labor Time
J6355	Powertrain Controller -- Reprogram -- On Car	Use Published Labor Times

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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