



Preliminary Information

PIP4925B SES Light with Fuel Trim and or Oxygen Sensor Codes

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
All	All	2000 - 2019	All	All	All (Gasoline Engines Only)	All

Supersession Statement

This PI was superseded to update Model Years and add diagnostic recommendations. Please discard all copies of PIP4925A

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

A customer may comment the vehicle has an SES light on. Initial diagnosis may display any of these fuel trim and/or O2 sensor related codes, P0101, P0137, P0138, P0140, P0141, P0157, P0158, P0160, P0161, P0171, P0174, P0420, P0430, P1174, P1175, P2096, P2097, P2098, P2099, P2177, P2178, P2179, P2180, P2187, P2188, P2189, P2190, P2270, P2271, P2272, P2273.

Recommendations / Instructions

If normal SI diagnostics does not lead to a resolution and an intake vacuum leak or an exhaust leak is suspected, the use of the J41413-200 Evaporative System Tester smoke machine or the J-41416 ultrasonic leak tester, or possibly using soapy water and low pressure air into the tailpipe may be useful to find the leak.

NOTE: All of these tests are much more effective if the throttle body is covered/sealed. For an intake leak the smoke can be introduce into the brake booster hose or the oil dipstick tube.

Soapy water can be sprayed near the gasket and seams and all vacuum nipples.

For an exhaust leak the hose into the tailpipe, with smoke or air, sealed with shop towels proves to be effective.

Then soapy water would be sprayed around seal, seems and bosses.

Ultrasonic leak detector may also find leaks in this way.

These methods are very good for finding small leaks around the O2 sensor embossments and slight cracks in an intake plenum or gasket.

This process was also recommended in the 10207.07D - July 2007 Emerging Issues training seminar.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.



GENERAL MOTORS