



Service Bulletin

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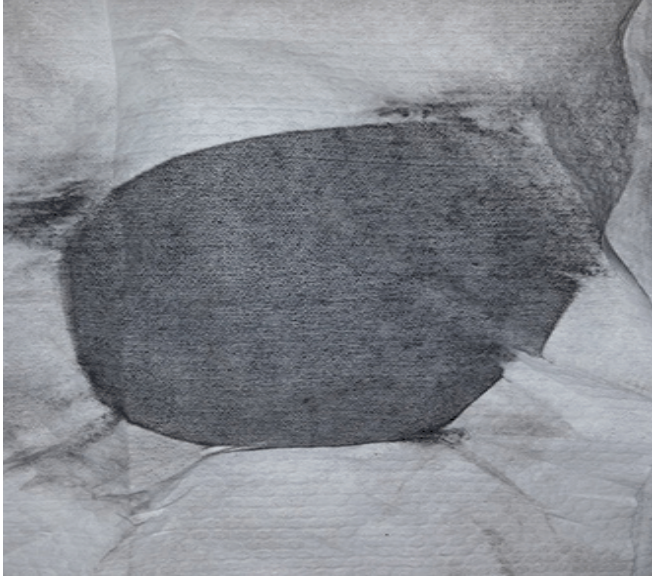
INFORMATION

Subject: Diagnostic Tip for SES Lamp Illuminated, Excessive Smoke from Tail Pipe, DTC P2002, P226D or P244A Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Passenger Cars and Trucks	2010	2020			Any diesel powered vehicle with a diesel particulate filter	
GMC							
Holden							

Involved Region or Country	North America, Israel, South America, Australia, Middle East, SE Asia, South Korea and Africa
Condition	Some customers may comment on the SES lamp illuminated and/or excessive smoke coming from the tail pipe. The technician may find DTC P2002, P226D or P244A set.
Information	<ul style="list-style-type: none"> • P2002 code will set if the properly functioning system detects a cracked or broken DPF. The exhaust particulate sensor is used to diagnose this failure. This code sets when the ECM detects that the particulate filter has degraded beyond a calibrated threshold. • P226D code will set if the properly functioning system detects that the DPF is missing. The exhaust pressure differential sensor is used to diagnose this failure. This code sets when the ECM detects that the pressure difference over the DPF is less than a set threshold. • P244A code will set if the exhaust pressure differential sensor lines are disconnected or blocked. The code sets when the ECM detects the diesel particulate filter exhaust differential pressure sensor is lower than the minimum threshold. <p>A properly functioning diesel particulate filter should remove most if not all soot particles from the exhaust stream. The following test should NOT be performed immediately after a regeneration because of the reduced filtration efficiency of the DPF without any soot in it. The purpose of this test is to aid in diagnosing a DPF that has failed internally.</p>

Service Procedure



4622615

Note: Assistance may be required to perform the exhaust soot flow test.

With assistance, the engine will need to rev to Wide Open Throttle 3 consecutive times with a cheese cloth, or equivalent, over the tail pipe.

- A failed exhaust soot flow test will show excessive soot particulates on the cheese cloth or equivalent. Refer to the graphic above.
- A passing exhaust soot flow test will show no, or very minimal, signs of soot particulates.

If the vehicle set P2002, P226D or P244A and SI diagnostics leads to DPF replacement, use the cheese cloth test to confirm if the DPF needs to be replaced.

Version	5
Modified	<p>Revised August 31, 2017 – Updated the Model Years.</p> <p>Revised July 23, 2018 – Added 2019 Model Year and additional vehicles.</p> <p>Revised May 07, 2019 – Updated the Subject and Condition for SES Lamp Illuminated and additional DTCs, added Engine RPOs, Information section, updated Exhaust Test procedure and removed Warranty Information.</p> <p>Revised August 26, 2019 – Eliminated Models and Engine RPO's Designations, Added 2020 Model Year, Added Diesel Engine Statement</p>