



Preliminary Information

PIT5888B Air Leveling Suspension Is Low After An Overnight Soak In Very Cold Temperatures

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	Escalade Models	2021 - 2022	SOP	December 1, 2021	All	All
Chevrolet	Suburban	2021 - 2022	SOP	December 1, 2021	All	All
Chevrolet	Tahoe	2021 - 2022	SOP	December 1, 2021	All	All
GMC	Yukon Models	2021 - 2022	SOP	December 1, 2021	All	All

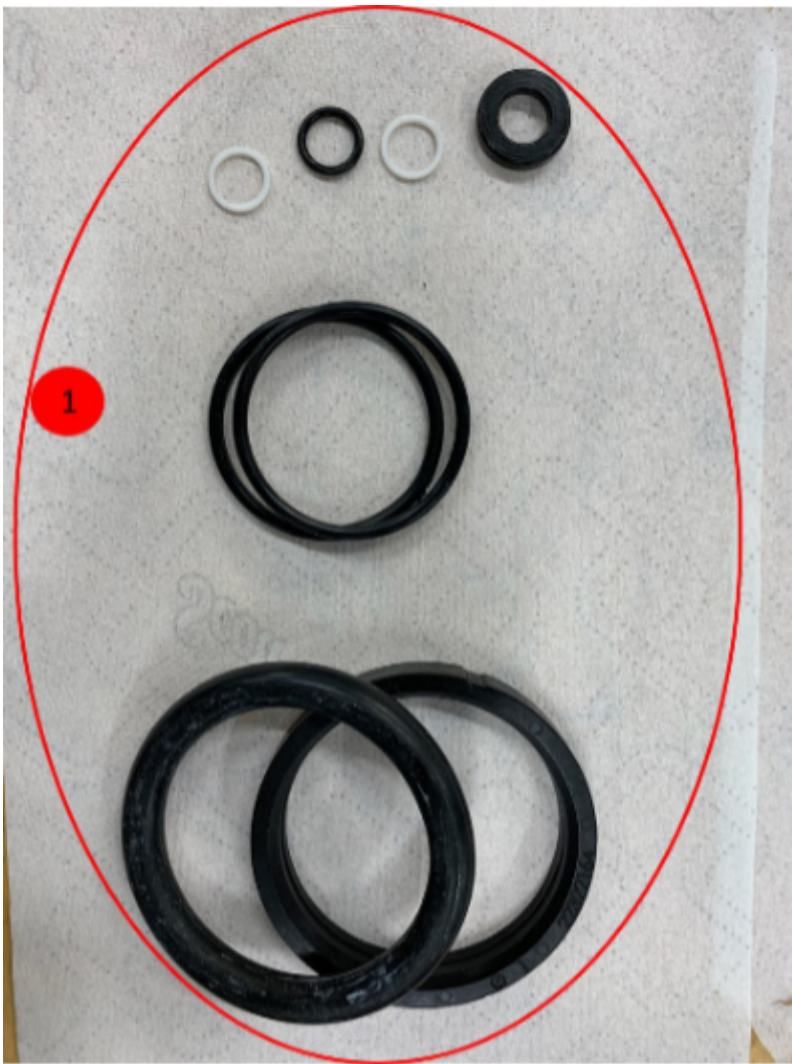
Involved Region or Country	North America
Additional Options (RPO)	F47 - Air Leveling Suspension
Condition	<p>Some customers may report that following an overnight cold soak, in temperatures below 0 Degs F (-15 Degs C), that the front air springs have leaked down resulting in severe suspension sag. A "Service Air Leveling System" message may be present on the driver information center (DIC) accompanied with DTC C118B and/or C118C.</p> <p>Note: This condition is not known to manifest itself in ambient temperatures warmer than 0 Degs F or -15 Degs C.</p>
Cause	Air spring to upper mount crimp ring.

Correction:

Note: Do not drive the vehicle if the air springs have no pressure as this can damage them to the point that they will require replacement.

- Perform normal air leak diagnostics and verify all air line connections are fully seated. Repair any leaks that are found and reevaluate.

- If no root cause is found, engineering has found air may leak around the area of the upper air spring to upper mount crimp, which only occurs in very cold temperatures. To correct this concern, replace both front air springs. Follow SI "Shock Absorber, Shock Absorber Component, or Spring Replacement - (F47)" for the air spring replacement procedure. During this repair, the air spring seals must be replaced and the seals come as a kit (1), shown below. The seal kit will contain seals for the air spring itself and two additional o-rings (4) that are used for the shock spring seat (3), see below. These two additional o-rings should also be replaced during the air spring replacement.



After the new air spring and seal kit is installed, use the CH-52667 Air Spring Inflator to fill the air spring to 4 bar (60 psi), before installing the assembly on the vehicle. It is very important to make sure the air spring has inflated correctly. The easiest way to verify this is with the corrugated boot removed visually inspect the lower portion of the air spring to make sure it is uniform all the way around (5), as shown below. If the spring did not fill correctly it will need to be deflated and then re inflated. To aid in proper inflation make sure the air spring assembly is held vertically and fully extended while inflating the air spring.



Parts Information

Part Number	Description	Qty
85521597	Air Spring with RPO 6WL and 7WL	2
85521598	Air Spring with RPO 6WM and 7WM	2
85546609	Seal Kit - All	2

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
*8080668	Replace Both Front Air Springs With Seal Kits	2.4 Hrs.
* This is a unique Labor Operation for bulletin use only.		

Additional SI Keywords

level, spring

Version History



Version	3
Modified	01/28/2022 - Created on. 03/09/2022 - Update to the Models, Condition, Cause, Correction, Parts and Warranty sections. 10/26/2022 - Update to the Model years.



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