

Preliminary Information

PIT5361D Diagnostic Tip - Additional Brake Pedal Effort

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to	Engine.	Transmissions.
Cadillac	Escalade	2015 - 2019	All	All	All	All
Chevrolet	Silverado 1500	2014 - 2018	All	All	All	All
Chevrolet	Silverado LD	2019	All	All	All	All
Chevrolet	Suburban	2015 - 2019	All	All	All	All
Chevrolet	Tahoe	2015 - 2019	All	All	All	All
GMC	Sierra 1500	2014 - 2018	All	All	All	All
GMC	Sierra Limited	2019	All	All	All	All
GMC	Yukon	2015 - 2019	All	All	All	All

Supersession Statement

This PI was superseded to update the Model Years, Condition/Concern, Recommendation and Warranty sections. Please discard PIT5361C.

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

Condition / Concern

In some rare situations, a customer may comment on a hard brake pedal or that increased effort is needed to depress the brake pedal. Also, in some cases a tick or ticking noise may be heard, which may sound like an exhaust manifold leak.

Recommendations / Instructions

When following the SI diagnostics chart for "Brake Pedal Excessive Effort" it may lead to the "Brake System Vacuum Source Test". While performing this test, if low vacuum is found, inspect the vacuum pump belt. If no belt issues are found, suspect a faulty vacuum pump.

If the vacuum pump is found to be at fault, inspect the vacuum line and brake booster for the presence of engine oil.

IMPORTANT: The vacuum pump is belt-driven and mounted to the side of the engine block and is lubricated by pressurized engine oil.

If NO engine oil is found, then ONLY replace the vacuum pump itself.

If engine oil is found, it is important that the following parts are replaced. If not, the condition will return.

- 1. Vacuum Pump
- 2. Vacuum Line between the booster and the pump
- 3. Brake Booster
- 4. Master Cylinder

NOTE: If the vacuum pump failed, please review the customer's maintenance records for proper oil change intervals. Poorly maintained vehicles can contribute to vacuum pump failures.

Parts Information

Part Number	Description	Qty
12669488	PUMP ASM-VAC	1
23144638 (VYU) or 23135228 (w/o VYU)	PIPE ASM-P/B BOOS VAC	1
23135220	BOOSTER ASM-P/B	1
20925765	CYLINDER-BRK MAS	1

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time	
4023850	Vacuum Pump Assembly Replacement	Use Published Time	
2480118 *	Replace vacuum pump, vacuum pump to booster hose, vacuum brake booster, and brake master cylinder	2.8 hr	
	* This is a unique labor operation for bulletin use only.		

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.

Additional SI Keywords

C0299



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