



# Service Bulletin

Bulletin No.: 21-NA-045

Date: October, 2022

## TECHNICAL

**Subject:** Power Brake Booster Vacuum Pipe Replacement, DTCs C025E, C0299, P050F, P0556, P0557, P0558 and/or P0561 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Impala	2014	2019	—	—	2.5L (RPOs LCV, LKW)	All
	Malibu						

<b>Involved Region or Country</b>	North America, Russia, Middle East, Israel, Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Japan, GM Korea Company, China, Taiwan, Philippines
<b>Condition</b>	<p>The purpose of this bulletin is to inform dealership personnel that a new power brake booster vacuum cap will need to be replaced when installing the revised power brake booster vacuum pipe.</p> <p>Technicians may find one or more of the following DTCs set:</p> <ul style="list-style-type: none"><li>• C025E - Brake Booster Vacuum Sensor Circuit</li><li>• C0299 - Brake Booster Large Vacuum Leak Detected</li><li>• P050F - Brake Booster Weak Vacuum</li><li>• P0556 - Brake Booster Pressure Sensor Performance</li><li>• P0557 - Brake Booster Pressure Sensor Circuit Low Voltage</li><li>• P0558 - Brake Booster Pressure Sensor Circuit High Voltage</li><li>• P0561 - System Voltage Performance</li></ul>
<b>Cause</b>	This condition may be caused by the routing of the original power brake booster vacuum pipe from the factory.

## Service Procedure

**Important:** Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

Refer to *Power Brake Booster Vacuum Pipe Replacement* in SI.

**Note:** Technicians need to replace the connector for the new vacuum pipe using the connector kit listed in the Parts Information.

**Note:** The vacuum cap must be placed on the existing intake manifold port to plug off.

**Note:** Clear DTCs and verify vacuum values with a scan tool.

## Parts Information

Causal Part	Description	Part Number	Qty
X	PIPE ASM-P/B BOOS VAC	23465287	1
	CAP, P/B BOOS VAC TUBE	23150684	
	CONNECTOR KIT, BODT WRG HARN (CRANKSHAFT POSITION SENSOR)	19371207	

## Warranty Information

Repairs made for the specific concern within this bulletin may be covered under the vehicle's New Vehicle Limited Warranty "Bumper-to-Bumper" terms (Canada Base Warranty). Refer to the vehicle's Limited Warranty and Owner Assistance Information booklet for coverage details.

Labor Operation	Description	Labor Time
2441640	Power Brake Booster Vacuum Pipe Replacement	Use Published Labor Operation Time
5430880	Connector with Leads Assembly Replacement	

<b>Version</b>	3
<b>Modified</b>	Released March 19, 2021 Revised September 02, 2022 – Removed Europe from Involved Region or Country section and updated the Parts Information. Revised October 11, 2022 – Added an Important statement and the first Note under Service Procedure and updated Warranty Information.

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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