



# Service Bulletin

Bulletin No.: 25-NA-019

Date: January, 2025

## TECHNICAL

**Subject: ABS/TCS/Stability/Brake Warning Indicators Displayed on Drivers Information Center (DIC) - DTC C0500 or C0501, C0506 or C0507, C050C or C050D, and/or C0512 or C0513 Set**

**This bulletin replaces PIT5937A. Please discard PIT5937A.**

Brand:	Model:	Model Year:		Build Date:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Silverado 4500HD/ 5500HD/6500HD	2019	2024			L5D	

<b>Involved Region or Country</b>	North America
<b>Condition</b>	<p>Some customers may comment on one or more of the following displayed on the DIC:</p> <ul style="list-style-type: none"> <li>• ABS/TCS/Traction/Stability</li> <li>• Brake warning indicators</li> </ul> <p>Some technicians may comment on one or more of the following DTCs set in the ABS module:</p> <ul style="list-style-type: none"> <li>• C0500 or C0501: Left Front Wheel Speed Sensor (WSS)</li> <li>• C0506 or C0507: Right Front Wheel Speed Sensor (WSS)</li> <li>• C050C or C050D: Left Rear Wheel Speed Sensor (WSS)</li> <li>• C0512 or C0513: Right Rear Wheel Speed Sensor (WSS)</li> </ul>
<b>Cause</b>	<p>Possible causes of one or more of the following concerns:</p> <ul style="list-style-type: none"> <li>• WSS air gap out of adjustment</li> <li>• Loose hub bearings</li> <li>• Debris on WSS sensor</li> <li>• Damaged reluctor ring</li> </ul>
<b>Correction</b>	<p>Before replacing the WSS, please perform the following inspections:</p> <p><b>Note:</b> For proper installation and air gap, ensure the WSS bottoms out on the reluctor ring inside of the hub. The air gap will be established by the contact between the reluctor ring and the WSS.</p> <ul style="list-style-type: none"> <li>• Are all tires the same size and tread wear.</li> <li>• Inspect harness to the WSS sensor for any signs of damage or loose terminal interface.</li> <li>• Inspect the WSS air gap and make sure it is adjusted per the WSS replacement document (large gap may lead to erratic signal, no gap may present as noise).             <ul style="list-style-type: none"> <li>– If it appears the WSS air gap is out of adjustment, then remove, clean, reinstall and test, see note below.</li> </ul> </li> <li>• Visually inspect for a buildup of debris between the backing plate and the rotor (mud, ice, dirt, ECT.). Clean as needed.</li> <li>• Inspect for a loose wheel bearing and check the torque as called out in SI.</li> <li>• Use an oscilloscope and look at the WSS pattern.</li> </ul>

	<ul style="list-style-type: none"> <li>- Look for any spikes that can be caused by a damaged reluctor, that will need to be inspected.</li> </ul> <p>If a determination is made that there are no issues with the tires, wiring, connections, bearing, hub, reluctor ring, or WSS air gap then install a new WSS.</p> <p>Be sure to drive the vehicle after any repairs to validate the vehicle is repaired.</p>
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**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.**

### Warranty Information

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
2486298*	Wheel Speed Sensor Inspection	0.5
*This is a unique Labor Operation for Bulletin use only.		

Version	1
Modified	Released January 31, 2025

