



# Preliminary Information

## PIT5593B Action Required Steering Assist is Reduced Drive with Care Or Service Power Steering Message And Or Current Power Steering Control Module DTCs

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 1500	2017 - 2018	SOP	Plant Code Z*: 9/12/2017, Plant Code F*: 9/13/2017, Plant Code G*: 9/15/2017	4.3L RPO LV3 / 5.3L RPO L83 / 6.2L RPO L86	All
Chevrolet	Suburban	2017 - 2018	SOP	Plant Code R*: 9/12/2017	All	All
Chevrolet	Tahoe	2017 - 2018	SOP	Plant Code R*: 9/12/2017	All	All
GMC	Sierra 1500	2017 - 2018	SOP	Plant Code Z*: 9/12/2017, Plant Code F*: 9/13/2017, Plant Code G*: 9/15/2017	4.3L RPO LV3 / 5.3L RPO L83 / 6.2L RPO L86	All
GMC	Yukon	2017 - 2018	SOP	Plant Code R*: 9/12/2017	All	All

\*For Plant Code See 11th Position of VIN

Involved Region or Country	North America
Additional Options (RPO)	Without RPO UHX Lane Keep Assist Without RPO NV8 Variable Assist Power Steering
Condition	<p><b>Note: This PI does NOT apply to 2500/3500 HD Trucks.</b></p> <p>Some customers may comment every time the vehicle is started an "Action Required Steering Assist is Reduced Drive with Care" Or "Service Power Steering" Message is displayed. In most cases, there will be no steering related issues and if the message is dismissed it will remain off the entire ignition cycle.</p> <p>When checking for DTC's the Power Steering Control Module (PSCM) will have current DTC's set. The most common DTC's which may set are C0176, C0544, U0100, U0101, U0140, U0121, U0073, U0126, U0428 71, U0415 and/or U0401.</p>
Cause	A PSCM calibration error has been found, which does not allow its DTC's to transition to history and they stay current. Even when the issue that caused the DTC's to set originally, is no longer present, the PSCM will retain the DTC(s) as current.

Correction:

This calibration error can mislead technicians, because the initial steps in normal strategy based diagnosis is to verify the customer complaint and follow current DTC's. To help avoid misdiagnosis, follow the steps below:

1. Check and record all DTC's in all modules.
2. Clear all DTC's. If all DTC's can be cleared, go to step 3. If DTC's will not clear, the vehicle is experiencing a current fault, which will need to be diagnosed and repaired before continuing to step 3.
3. Reprogram the PSCM with the latest calibrations currently available in TIS2WEB, and clear any DTC's which may have set during the programming event.
4. Let the vehicle go to sleep, then restart the engine and check for DTC's. If any DTC's reset, perform normal diagnosis and repair as necessary.
5. If no DTC's reset, it will be necessary to look at all recorded DTC's in step 1 to help determine the original root cause. See additional information/example below.

#### Additional Information and Example

Remember, this PSCM calibration error only causes the DTC's to stay current, which then causes the PSCM messages to appear at each start up. After reprogramming the PSCM with the latest calibrations, the original root cause of the DTC's may still need to be addressed. See example below.

- Customer brings the vehicle in for an "Action Required Steering Assist is Reduced Drive with Care" message that is displayed each ignition cycle. See DIC message below.



- When checking for DTC's the following codes are found: See also the GDS2 screen print of the DTC's below.

PSCM has two current DTC's U0415 and U0401

EBCM has two history DTC's C0035 and C0045

Control Module	DTC	Description	Status
Power Steering Control Module	U0415	Invalid Data Received From Electronic Brake Control Module	Current
Power Steering Control Module	U0401	Invalid Data Received From Engine Control Module	Current
Electronic Brake Control Module	C0035	Left Front Wheel Speed Sensor Circuit	History
Electronic Brake Control Module	C0040	Right Front Wheel Speed Sensor Circuit	History

  

Category	Status
This Ignition Cycle	Passed
Last Test	Failed Current DTC
Since DTC Clear	Passed
DTC History Status	History
MIL Status	Not Requested

- When performing normal strategy based diagnosis, a technician would start the vehicle and verify the customer's complaint of the "Action Required Steering Assist is Reduced Drive with Care" message, he or she would find current DTC's set in the PSCM. Finding these current codes may lead a technician down the wrong path, which is why it is important to follow the steps listed above.

- In this example, all the DTC's cleared out and the PSCM was reprogrammed with the latest calibrations available in TIS2WEB.

- Looking back at all the DTC's recorded, the EBCM had two wheel speed sensor DTC's set: C0035 and C0040. These two DTC's would be the original root cause and would need to be addressed.

- If the vehicle was returned to the customer without addressing the EBCM DTC's, he or she may return for service but would be a different complaint, such as, an intermittent ABS MIL and/or Service Stabilitrak message. The same DTC's will be found in the PSCM and EBCM, but now the new PSCM calibration will allow the DTC's to transition to history and there will no longer be a PSCM DIC message displayed at each ignition cycle.

### 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
2810625	Power Steering Control Module Reprogramming with SPS	Use Published Time

### Additional SI Keywords

C0176 C0475 c0544 c0545 C056D C0045 C0050 U0100 U0101 U0140 U0121 U0126 U0131

### Version History

Version	3
Modified	<p>Created on 11/06/2017</p> <p>04/23/2018 - Update the engines in the model list, add a Note in the Condition to Excluded HD trucks, and update the Additional Options to add Without RPO NV8 Variable Assist Power Steering</p> <p>05/21/20 - Updated to include additional DTC's C0176, C0544, U0100, U0101, U0140, U0121, U0073, U0126, U0428 71</p>



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