



Preliminary Information

PIT5535E Service Front Camera / Service Lane Departure Warning / Service Lane Keep Assist Message with DTC B1008 SYM4B / IntelliBeam Headlight / Windshield Wind Rush Noise

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Enclave	2018 - 2020	All	All	All	All
Buick	LaCrosse	2017 - 2019	All	All	All	All
Cadillac	CT6	2016 - 2020	All	All	All	All
Cadillac	Escalade Models	2015 - 2020	All	All	All	All
Cadillac	XT4	2019 - 2020	All	All	All	All
Cadillac	XT5	2017 - 2020	All	All	All	All
Cadillac	XT6	2020	All	All	All	All
Chevrolet	Bolt	2017 - 2020	All	All	All	All
Chevrolet	Malibu	2016 - 2020	All	All	All	All
Chevrolet	Silverado 1500	2014	All	All	All	All
Chevrolet	Silverado	2015 - 2018	All	All	All	All
Chevrolet	Silverado LD	2019	All	All	All	All
Chevrolet	Silverado 2500/3500	2019	All	All	All	All
Chevrolet	Suburban	2015 - 2020	All	All	All	All
Chevrolet	Tahoe	2015 - 2020	All	All	All	All
Chevrolet	Traverse	2018 - 2020	All	All	All	All
GMC	Acadia	2017 - 2020	All	All	All	All
GMC	Sierra 1500	2014	All	All	All	All
GMC	Sierra	2015 - 2018	All	All	All	All
GMC	Sierra Limited	2019	All	All	All	All
GMC	Sierra 2500/3500	2019	All	All	All	All
GMC	Yukon Models	2015 - 2020	All	All	All	All

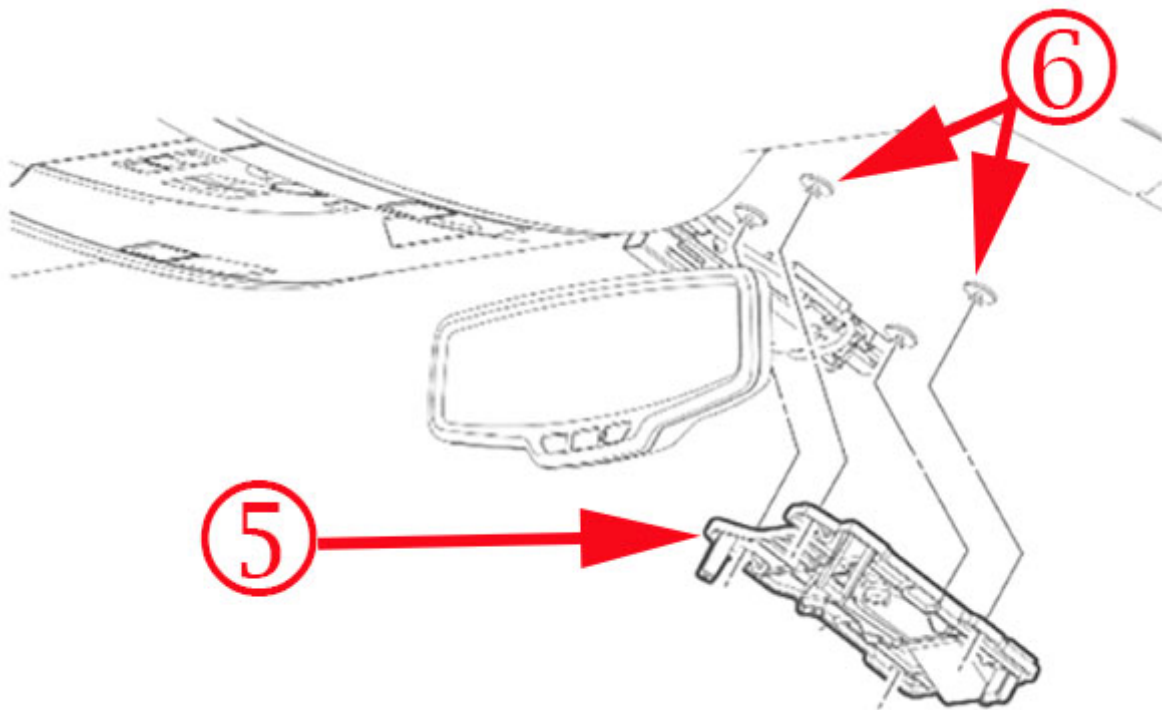
Involved Region or Country	North America and N.A. Export Regions
Additional Options (RPO)	With any of the following RPO's: UHX - Lane Keep Assist UEU - Forward Collision Alert UFL - Lane Warning Departure
Condition	While performing the "Front View Camera Module Calibration", using the scan tool (GDS2), it may not complete and set DTC B1008 Sym 4B.

	Note: A replacement front view camera module must be SPS programmed before the calibration/learn is performed.
Cause	This is caused when the front view camera module has determined that it is not properly mounted and/or there is a blockage of its view.

Correction:

Do NOT replace the Front View Camera Module if it is only setting DTC B1008 SYM4B. Perform the following checks and repair as necessary:

- Verify the front view camera module bracket (5) is fully seated down and secured on the windshield pins (6), shown below.

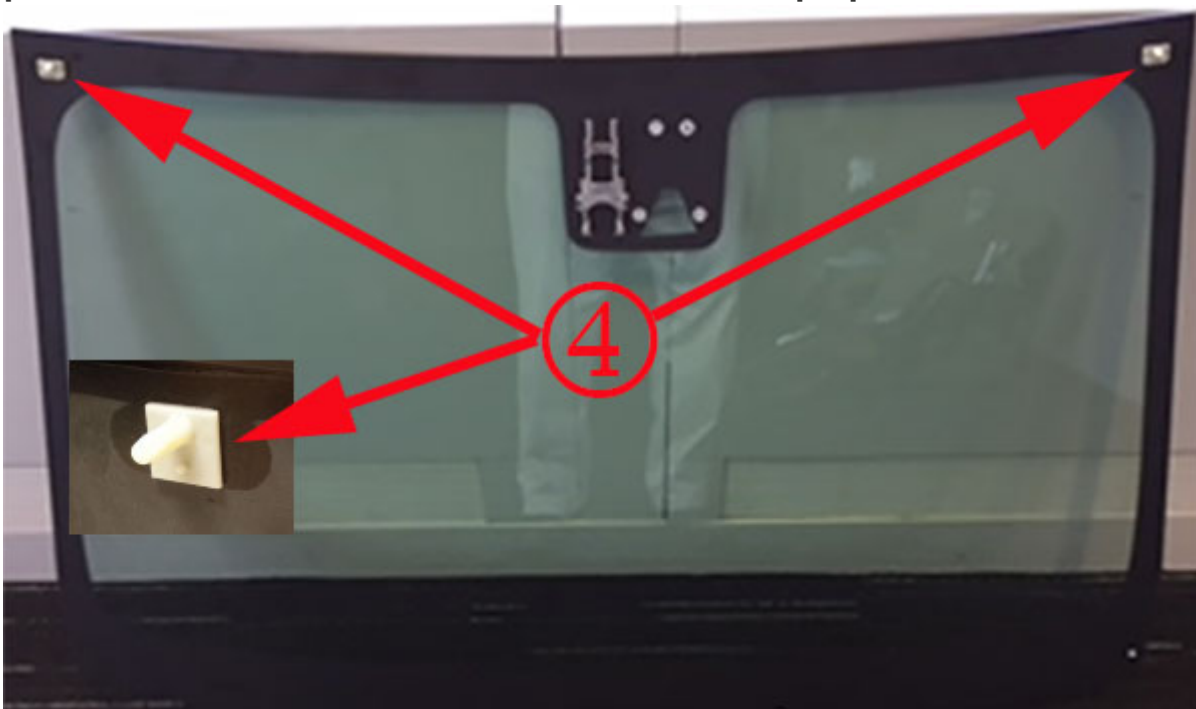


- Verify the front view camera module is secured properly to the bracket (5).
- The front view camera module must have a clear field of vision to the road ahead. Check for anything that may impair the front view camera module's ability to clearly see the area in front of the vehicle, such as:
 - Bug deflectors
 - Tinted windshield glass
 - Banners across the top of the windshield
 - Windshield blocked with mud, dirt, snow, ice, or slush
 - Damaged windshield
- Inclement weather such as fog, rain, or snowy conditions can limit visibility while driving
- Verify there are no yaw sensor issues and if none perform a yaw sensor relearn using GDS2.
- Inspect for an improperly mounted windshield. In general, this is most likely to occur due to poor workmanship when a windshield was previously replaced. Inspect the following areas for proper windshield mounting:

Inspect the gap between the top of the windshield and roof sheet metal (3), shown below. This gap should be 3.6 mm (+/- 1 mm).



Factory GM windshields use alignment/locating pins (4) in the upper corners of the windshield, which makes it much easier to properly align the windshield to the body opening, shown below. Most aftermarket windshields do not use these alignment/locating pins, which can make it more difficult to ensure a proper installation.



Also, inspect to make sure the windshield is sub-flush to the roof sheet metal (7), as shown below. If the windshield is proud of the roof sheet it could indicate:

- The old urethane adhesive bead was not cut low enough and left excessively thick.
- Windshield alignment/locating pin(s) are not fully in the alignment hole(s).
- During windshield installation it was not firmly pressed around the entire outside edge in order to wet-out the urethane adhesive bead.
- The urethane adhesive bead dried before the windshield was installed.

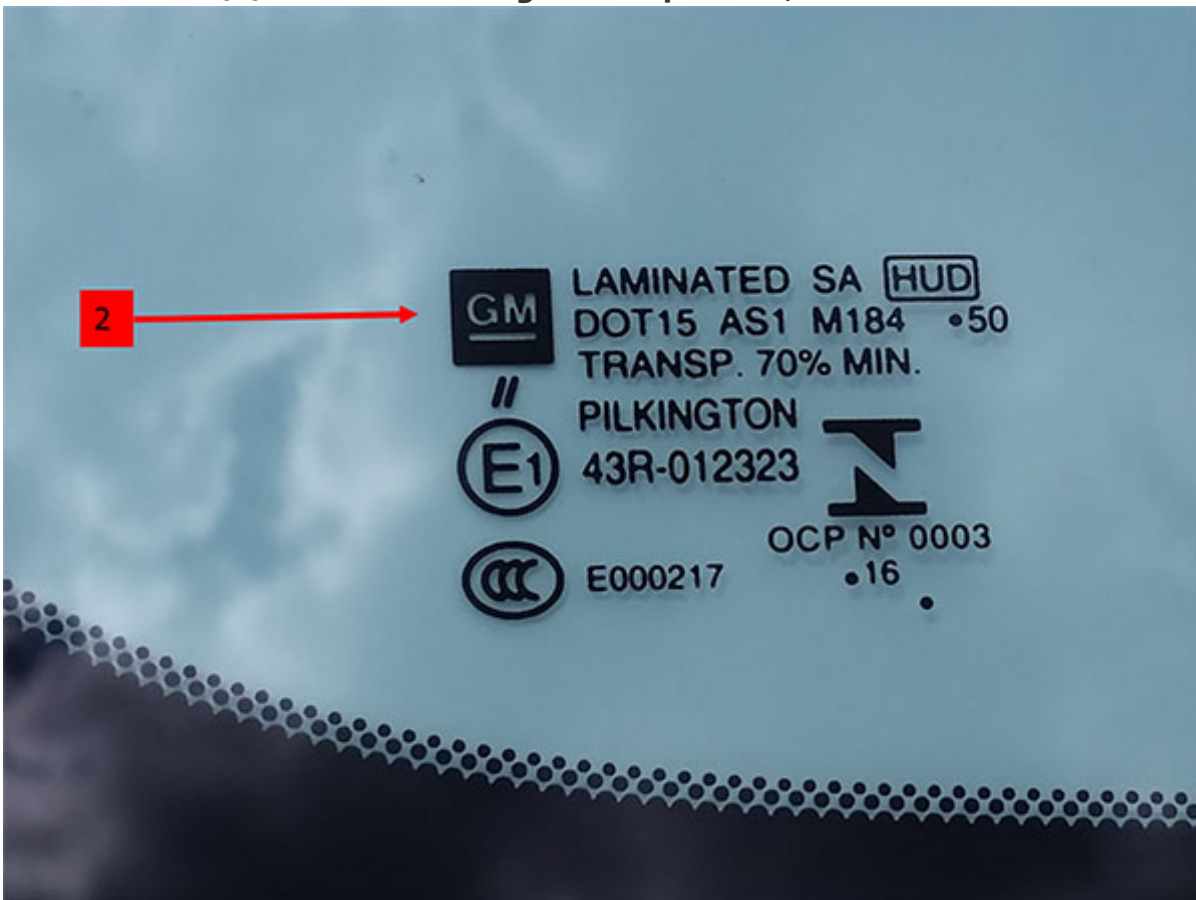
NOTE: A windshield proud of the roof sheet metal could cause excessive wind noise.

Either of these windshield mounting issues could cause the camera to be misaligned and

unable to complete the learn.



- If, after performing the checks listed above and the root cause of the camera not completing the calibration/learn is still not found, inspect for an aftermarket windshield being installed in the vehicle. To determine whether or not the windshield is an aftermarket or factory windshield, inspect for the "GM" Logo in the lower right corner of windshield, as shown below (2). If the "GM" Logo is not present, then the windshield is aftermarket.



It has been found that some aftermarket windshields do not properly mount/position the front view camera. Shown below are some images, taken with engineering tools (see note below), of what the front view camera is actually seeing. The first image is taken from a truck with an aftermarket windshield. As shown below, the camera is seeing part of the hood (1). Because of this, the camera is not seeing movement in the area of the hood and can not complete the learn. The second image below is from a truck with a factory windshield and there is no hood seen by the front view camera.

Note: The images shown below can only be seen using engineering tools and there is NO way for the dealership's service tools (GDS2) to see the front view camera images.



NOTE: If the windshield has to be removed/replaced for any of the above reasons, it is suggested that a factory GM windshield be installed.

Additional SI Keywords

IntelliBeam Headlight high low beam head light lamp

Version History

Version	6
Modified	<p>Created on 12/14/2016</p> <p>05/26/2017 Update recommendation section</p> <p>07/03/2017 Update the models.</p> <p>07/05/2018 Update the model year</p> <p>07/09/2019 Update the model year</p> <p>10/25/2019 Update the models</p>



GENERAL MOTORS

© 2019 General Motors. All Rights Reserved.