



# Service Bulletin

Bulletin No.: 21-NA-077

Date: May, 2021

## INFORMATION

**Subject: Information on Aero Shutter Related Diagnostic Codes**

Brand:	Model:	Model Year:		Date Breakpoint:		Engine:	Transmission:
		from	to	from	to		
Cadillac	Escalade Models	2019	2021	SOP	June 30, 2021	All	All
Chevrolet	Silverado 1500 (New Model)	2019	2019	SOP	June 30, 2021		
	Silverado 1500 (New Model - 12th VIN Digit = 7) - 4WD						
	Silverado 1500	2020	2021				
	Silverado 2500HD/3500HD						
	Suburban	2019					
Tahoe							
GMC	Sierra 1500 (New Model)	2019	2019	SOP	June 30, 2021		
	Sierra 1500	2020	2021				
	Sierra 2500HD/3500HD						
	Yukon Models	2019					

<b>Involved Region or Country</b>	North America, Europe, Middle East, Uzbekistan, Russia, Israel, Palestine, Chile, Columbia, Ecuador, Paraguay, Peru, Uruguay, Japan, S. Korea, Thailand, Philippines, Australia and New Zealand.
<b>Additional Options (RPOs)</b>	
<b>Condition</b>	Some customers may comment on seeing a Check engine lamp illuminated in the DIC.
<b>Cause</b>	The cause of the condition may be a various combination of Aero shutter related diagnostic codes.
<b>Correction</b>	Check Aero shutter operation, electrical integrity, displaced vanes, and for debris that could potentially cause the shutter movement to be blocked, following the Service Information below.

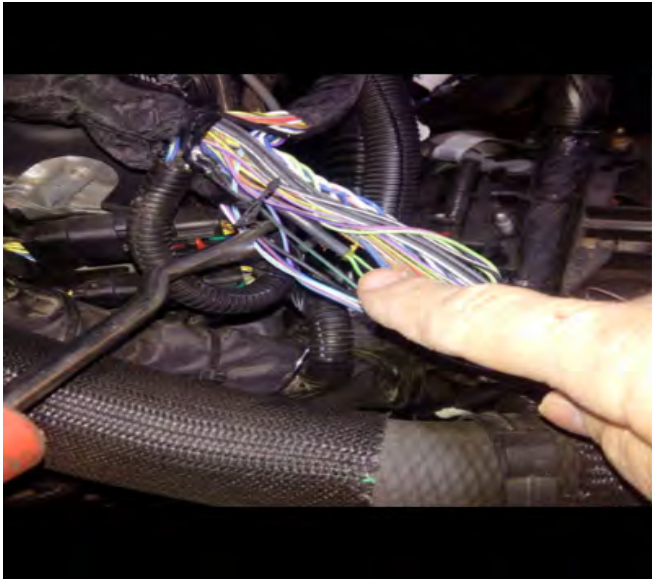
## Service Information

### Silverado/Sierra 1500 (New Model) and Silverado/Sierra 1500

#### U0284 / U0285

If these codes are paired with any of U0632 / U0633, U01B0 and U1345, please do the following:

1. Check the fuse for the Aero shutters to ensure that it is not loose.
2. Check the continuity on the engine wiring harness to see if there are any high resistances present along the wiring. If any corrosion is found, repair the harness. (And report where the failure occurred with photos).



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3. Check the integrity of the **J170 splice**. Moving this splice, even small amounts, can cause intermittent communication issues. If any issues are detected in the splice, repair the splice and report what was repaired.

**Note:** If the J170 splice is found to be an issue, replace the entire splice, do not attempt to repair it. Cut out the splice for part return and submit a photo, **taken prior to cutting the section where the issue has been detected**.

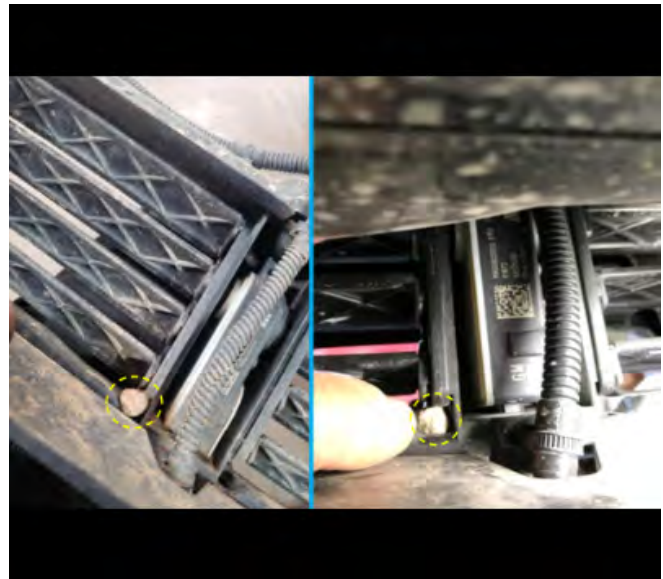
4. Check the engagement of the jumper harness to the shutter actuators. Ensure there is no soft connection.
5. Check the continuity jumper harness for the Aero shutters to see if there are any high resistances present along the wiring. If any corrosion is found, replace the Aero shutter, not the wiring.

6. Perform a functionality check on the shutters. If they do work, then do not replace the assemblies, if they were not replaced at step # 5.
7. Check the X133 connector for corrosion and water intrusion. Additionally, check the other connectors to the Aero shutter.
8. If there are signs of water, but not corrosion, please check the seal condition of the connectors. If they are not damaged, please apply dielectric grease to the connector. If there's corrosion present, proceed to replace the shutter. Take photos and hold the part for return.

#### P059F / P05AE

Please do the following:

**Note:** For vehicles equipped with upper and lower shutters, the upper shutter, top passenger side louvre/vane is intentionally missing from the shutter assembly for airflow reasons. DO NOT replace the shutter for this reason.



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1. Check for any debris in the upper and lower shutters. If found, please remove the debris.
2. If there is no debris evident, please look for a louvre/vane that is disengaged from the linkage. If the vehicle has a shutter with this condition, please engage the louvre/vane in the shutter assembly. If shutter is operational, DO NOT replace the shutter.
3. Check to see if the upper shutter in open position is binding on the air induction plenum. It is located on the driver's side upper behind the upper shutter. If this condition exists, secure the air induction plenum to structure behind, using a 2-stage push pin.

**Silverado/Sierra 2500HD/3500HD****P059F- Upper Shutter**

Please do the following:

**Note:** For MY 2020-2021 vehicles equipped with upper and lower shutters, the upper shutter, top passenger side louvre/vane is intentionally missing from the shutter assembly for airflow reasons. DO NOT replace the shutter for this reason.

1. Before removing the fascia of the vehicle, check for any debris in upper shutter. Also, utilizing a mirror, look behind the lower shutter to determine if there is any debris lodged in the back side.
2. If debris is present, clear the debris from the assembly by hand or compressed air. If unsuccessful, remove the shutter from the vehicle and clear debris, then reinstall the shutter.
3. If there is no debris, please look for a louvre/vane that is disengaged from the linkage. If the vehicle has a shutter with this condition, please engage the louvre/vane in the shutter assembly. DO NOT replace the shutter.
4. Functionality test the shutter. If they are functional, DO NOT replace the assemblies.

**P05AE - Lower Shutter**

Please do the following:

1. Remove the lower shutter from the vehicle and clear the debris if present from the assembly by hand or compressed air.
2. For 2020-2021 vehicles only, remove the fourth lowest row of louvers by completing the Lower Shutter Louver Modification found in Bulletin #21-NA-071. If the fourth lowest row is already missing, move to step #3.
3. Check to see if there is any debris sitting in the baffle area behind the lower shutter and clear debris if present.
4. If there is no debris, please look for a louvre/vane that is disengaged from the linkage. If the vehicle has a shutter with this condition, please engage the louvre/vane in the shutter assembly. DO NOT replace the shutter.
5. Functionally test the shutters. If they are functional, DO NOT replace the assemblies
6. **If the lower shutter is ordered for replacement and arrives with all 4 rows of louvers, complete the Lower Shutter Louver Modification found in Bulletin #21-NA-071.**

**U0284 / U0285**

Please do the following:

1. Check the fuse for the Aero shutter, to ensure it is not loose.
2. Check the engine wiring harness to see if there is any high resistance present along the wiring to the shutters. If any corrosion/damage is found, the repair the harness. Report where the failure occurred with photos or a detailed description.
3. Check the engagement of the jumper harness to the shutter actuators. Ensure no soft connection.

4. Check the continuity in-jumper harness for the Aero shutters, to see if there is any high resistance present along the wiring. If any corrosion is found, replace the Aero shutter, not the wiring.
5. Perform a functionality check on the shutters. If they do work, then DO NOT replace the assemblies, if they were not replaced at step # 4
6. Check the X133 connector for corrosion and water intrusion. Additionally, check the other connectors to the Aero shutter.
7. If there are signs of water, but not corrosion, please check the seal condition of the connectors. If they are not damaged, please apply dielectric grease to the connector. If there's corrosion present, proceed to replace the shutter.

**SUV's****U0284 / U0285**

Please do the following:

1. Check the fuse for the Aero shutters to ensure that it is not loose.
2. Check the continuity on the engine wiring harness to see if there are any high resistances present along the wiring. If any corrosion is found, repair the harness. (And report where the failure occurred with photos).
3. Check the engagement of the jumper harness to the shutter actuators. Ensure there is no soft connection.
4. Check the continuity jumper harness for the Aero shutters to see if there are any high resistances present along the wiring. If any corrosion found, replace the Aero shutter not the wiring.
5. Perform a functionality check on the shutters if they do work, then do not replace the assemblies, if they were not replaced at step # 4
6. Check the X133 connector for corrosion and water intrusion. Additionally, check the other connectors to the Aero shutter.
7. If there are signs of water, but not corrosion, please check the seal condition of the connectors. If they are not damaged, please apply dielectric grease to the connector. If there's corrosion present, proceed to replace the shutter.

**P059F / P05AE**

Please do the following:

**Note:** For vehicles equipped with upper and lower shutters, the upper shutter, top passenger side louvre/vane is intentionally missing from the shutter assembly for airflow reasons. DO NOT replace the shutter for this reason.

1. Check for any debris in the upper and lower shutters. If found, please remove the debris.
2. If there is no debris, please look for a louvre/vane that is disengaged from the linkage. If the vehicle has a shutter with this condition, please engage the louvre/vane in the shutter assembly. DO NOT replace the shutter.

3. Check to see if the upper shutter is binding on the **HORN BRACKET**. It is located on the passenger's side upper, behind the upper shutter.
4. Functionally test the shutters, if they work do not replace the assemblies.

## Parts Information

Use the VIN and refer to the GM Electronic Parts Catalog (EPC) to determine the proper part to order.

## 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.

For vehicles repaired under warranty, use the appropriate labor operation for the repair performed.

Labor Operation	Description	Labor Time
1481528*	Check Aero Shutter Operation and Function	0.8 hr
Add	Complete Lower Shutter Louver Modification	0.2 hr

\*This is a unique Labor Operation for Bulletin use only.

Version	3
Modified	Released March 26, 2021 Revised April 21, 2021 – Updated with Additional Models and Model Years. Revised April 30, 2021 – Added Graphic and Detail to J170 Splice Reference.

