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Case Number: S2523000046

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Symptom/Vehicle Issue: Check Engine Lamp On. Diagnostic Trouble Code (DTC) P1D73 And Or P05AE For Active Grill Shutter (AGS).

Customer Complaint/Technician Observation: The customer will notice that the MIL is illuminated on the cluster, technician finds DTC's for AGS performance either P1D73 for upper AGS or P05AE for lower AGS or both.

Discussion: There has been feedback from the field where there's damage or corrosion in the front-end wire harness and it is interrupting LIN communication with the AGS, which triggers DTC's and turns MIL lamp on.

- The most common spot for harness damage is near the lower AGS connector because of a rubber closeout that rubs through the wire when there's no abrasion resistant tape on (In WL versions that have a dual AGS system).
- In cases where the corrosion hasn't reached the AGS connector, it is still functional and doesn't require a replacement.
- If damage or corrosion is found anywhere in the harness, please replace it entirely so that the engineering team can analyze the returned parts and work on a solution.
- Testing an AGS with wiTECH is NOT conclusive to determine if it is operational or not, a test drive needs to be made to see if the DTC for AGS performance returns after clearing all DTC's.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Repair Procedure:

First check the vehicle for any signs of impact damage that may have affected the AGS.

- Check if there is any visible damage in the AGS that corresponds to the DTC code; if the code present is P1D73 check the upper AGS and if the code is P05AE check the lower AGS.
- Check if the AGS connector is seated properly, if it's loose, that might be the cause of the issue.
- Next, inspect the front-end harness entirely to see if there's any kind of damage or signs of corrosion that might interrupt communication with the AGS. The appendix at the end of the document shows some examples of damage and/or corrosion. In some cases, there's damage below the protective tape, but if it's already corroded it should have a green stain.
- If no damage is found in the front-end harness, check other components that are plugged in the harness and their connectors, such as the inline connector XY110A, the dash harness, the powertrain control module (PCM), ambient air temperature sensor, horns 1 and 2, hood ajar switch, pedestrian alert speaker, and the dash harness ground (G946A).
- If damage or corrosion is found anywhere in the harness replace it entirely and report the exact location in the repair narrative.

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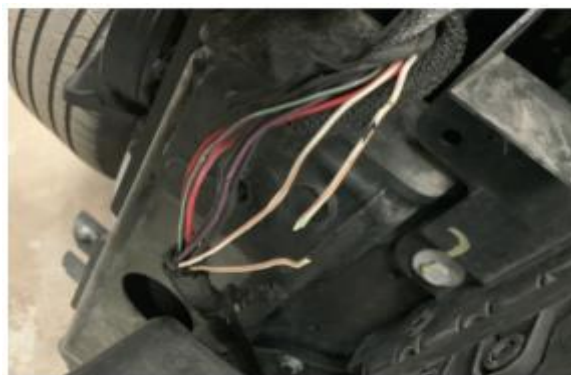
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Examples of damage due to harness rubbing against close-out near Lower AGS:



Upper AGS wire harness damage example:



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