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Case Number: S2407000001

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Symptom/Vehicle Issue: Active Grill Shutter is Inoperative P1D73 AGS Performance

Customer Complaint/Technician Observation: Check Engine Light is on. Technician finds Diagnostic Trouble Code (DTC) P1D73 AGS Performance

Discussion: Analysis of returned parts has shown many AGS are being returned with no issues found when inspected and tested. This document may help with most common issues related to the AGS and avoid over repair. Use this information in addition to any AGS DTC diagnostic steps.

Note: Most cases where the DTC P1D73 is triggered there has been corrosion found in the connectors or there has been trouble with the communication with the PCM. The following instructions are to check for those issues, but the complete guide to diagnose the root cause of DTC P1D73 is found in the service procedure, please follow it step by step if this document doesn't help.

1. Check the Active Grill Shutter (AGS) harness connection and connector.

1. Turn the ignition off
2. Disconnect the PCM, AGS and inline harness connectors relevant to the AGS.
3. Check the PCM, AGS and inline harness connectors for:
 - Proper connector installation.
 - Damaged connector and locks.
 - Corrosion.
 - Other signs of water intrusion.
 - Weather seal damage (if equipped).
 - Bent terminals.

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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- Overheating due to a poor connection (terminal may be discolored due to excessive current draw).
 - Terminals that have been pushed back into the connector cavity.
 - Spread terminals and check proper terminal tension.
4. Repair any conditions that are found.
 5. Reconnect the AGS harness connector.
 6. With the scan tool, erase all DTCs.
 7. Turn the ignition off for a minimum of 10 seconds.
 8. Turn the ignition on.
 9. With the engine running and battery voltage between 11.0 and 16.0 volts and the Ambient Air Temperature or Engine Coolant Temperature above -7°C (19.4°F), operate the vehicle in the conditions that set the DTC.
 10. With the scan tool, read DTCs. If the DTC P1D73 still returns continue to the next step.

2. Inspect the Active Grill Shutter Assembly for signs of physical damage due to road debris.

If there was no sign of the issues mentioned the problem and the DTC P1D73 still returns, then the issue is more complex, so please follow the complete service procedure in the correct steps as they were designed to find the root cause precisely.

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