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Coding Information

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Title: Engine ECM Losing Programmed Values

Applies To: CV Chassis

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

11/02/2021 - Corrected broken link in step 3
 12/16/2020 - Coding Corrected
 11/11/2020 - Initial Article Release

DESCRIPTION

This document will guide the user through a process to recover lost programmed values in engine ECM. This condition will typically result in a crank no start, or a no crank condition.

SYMPTOM(s)

The typical driver complaint is that the engine will not crank at all, or will crank and not start. The ECM will likely have some or all of the faults listed below.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
P0315 - 0	Crank Position System Variation Not Learned
P0633 - 0	Immobilizer Key Not Programmed
P264F - 0	ESN Not Programmed
P268C - 0	Cylinder 1 Injector Calibration Incorrect
P268D - 0	Cylinder 2 Injector Calibration Incorrect
P268E - 0	Cylinder 3 Injector Calibration Incorrect
P268F - 0	Cylinder 4 Injector Calibration Incorrect
P2690 - 0	Cylinder 5 Injector Calibration Incorrect
P2691 - 0	Cylinder 6 Injector Calibration Incorrect

P2692 - 0	Cylinder 7 Injector Calibration Incorrect
P2693 - 0	Cylinder 8 Injector Calibration Incorrect

SPECIAL TOOLS / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
GDS2 with the MD12 Cable			

SERVICE PARTS INFORMATION

N/A

DIAGNOSTIC STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

1. Remove both the left and right side fuse panel covers located at the ends of the dashboard
2. Closely inspect for extra fuses populated in each panel per the linked article [HERE](#)

REPAIR STEP(s)

1. If fuses are found in BOTH locations in each left and right panel, remove one of the two from each panel depending on the desired function of the AUX switches in the dash.
 - Fuse location will determine if the AUX switches function using switched or unswitched battery power
2. For any missing injector calibration faults, take a picture of the top of each injector to capture the IQA code.
3. Manually reprogram each injector IQA back into the engine ECM as needed. Follow programming steps closely per the published guidelines [HERE](#)

4. Finish reprogramming the remaining missing values into the ECM until all of the faults have cleared.
5. Install the fuse panel covers at each end of the dash.

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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