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Case Number: S2225000003

Release Date: August 2022

Symptom/Vehicle Issue: P0513-Invalid Skim Key setting in the PCM after programming a replacement “generic” PCM

Discussion: A key cycle/module communication timing issue during the flash programming of a generic PCM has been identified. If this anomaly occurs, the result will be the issue mentioned in the Symptom/Vehicle Issue section above.

The repair process outlined below will only be effective if performed on a “generic” PCM on which a flash has not been attempted. Recovery of a PCM that has experienced the anomaly during the PCM programming and now has the fault mentioned above is not possible in the field.

Please read this entire procedure below before performing any of the steps.

Repair Procedure: Perform the procedure below with a new “generic” PCM.

The PCM is programmed to learn the Immobilizer Data on the FIRST regular ignition cycle following the flash.

To prevent the PCM from learning “default” data when the ignition is placed in RUN, the valid Immobilizer Data for the vehicle must be ready to be sent to the PCM on the FIRST regular ignition cycle after the flash.

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 or eCONTACT ticket if no solution is found



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This will require running the Immobilizer Modules Replacement procedure found in Guided Diagnostics. This procedure is run with the IGNITION OFF and the HAZARD FLASHERS ON to keep the bus awake.

This procedure also requires having the vehicle PIN available. It will check the Immobilizer programming status of the RFH, BCM, PCM and HCP and ESL when equipped. This procedure will provide the instructions to turn the Ignition to RUN at the correct time. FOLLOW THEM CLOSELY.

The following steps will describe the programming order. **HAVE THE PIN AVAILABLE WHEN YOU ARE READY TO BEGIN.**

1. Flash the “generic” PCM maintaining proper battery voltage.
2. When the progress bar reaches 99% you will be requested to turn the ignition OFF and then back ON.
3. As soon as the Flash completed progress bar shows 100% the flash is complete. (Note: Normal communication was suspended during the flash. WiTECH will attempt to rescan the vehicle and update module status. Allow the communication to resume).
4. DO NOT TURN THE IGNITION OFF UNTIL INSTRUCTED BY THE IMMOBILIZER MODULES REPLACEMENT PROCEDURE ON THE SCAN TOOL.
5. Navigate to Guided Diagnostics. Select Immobilizer Modules Replacement.
6. When prompted turn on the Hazard Flashers.
7. When prompted enter the PIN.
8. When prompted turn the Ignition OFF.
9. When prompted turn the Ignition ON. Immobilizer programming should now be completed.

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