DTC B1013

Circuit Description

This test checks the validity of the module FLASH memory calibration values. Error detection is performed inside the control module. no external circuits are involved.

DTC Descriptors

This diagnostic procedure supports the following DTC: DTC B1013 Calibration Read Only Memory (ROM) Checksum Error

Conditions for Running the DTC

The module runs the program to detect a FLASH calibration error after each wake-up. The only requirements are battery positive voltage and ground.

Conditions for Setting the DTC

The module retains a copy of the FLASH calibration checksum reference value in the FLASH memory. During wake-up the module shall compute the FLASH calibration value and compare it to the FLASH calibration checksum reference value. If the 2 values do not match the module sets this DTC.

Action Taken When the DTC Sets

The module may have limited functional operation depending on the severity of the FLASH calibration corruption. The module physical operation will allow for the module to be reprogrammed to correct the malfunction.

Conditions for Clearing the DTC

a) A current DTC clears when the malfunction is no longer present.
b) A history DTC clears when the module ignition cycle counter reaches the reset threshold, without a repeat of the malfunction.

Diagnostic Aids

The following are most likely cause for this DTC being set:
a) Incorrect files downloaded to the module.
b) A module installed in the vehicle without the reprogramming procedure having been performed.

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Step	Action	Yes	No
1	Did you perform the Diagnostic System Check -Vehicle?	Go to Step 2	Go to Diagnostic System Check -Vehicle on page 10-1 in Vehicle DTC Information
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. Flash the control module that set the code. Refer to Control Module References on page 10-69 for the applicable procedure. 4. Clear DTCs. 5. Turn OFF the ignition. 6. Turn ON the ignition, with the engine OFF. 7. Retrieve DTCs. Does the DTC reset?	Go to Step 3	Go to Diagnostic Aids
3	**Important:** Perform the setup procedure for the module if required. Replace the module. Refer to Control Module References on page 10-69 for the applicable replacement procedure. Did you complete the replacement?	Go to Step 4	—
4	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK