DTC B1001 Option Configuration Error

Circuit Description

When you first turn ON the ignition, the inflatable restraint sensing and diagnostic module (SDM) compares the restraints ID that is stored in the SDM to the restraints ID that is stored in the IPC. The restraints ID that is being compared contains the last four digits of the SDM part number. Next, the SDM compares the VIN that is stored in the SDM to the VIN that is stored in the IPC. For more detailed information concerning the Class 2 data lines, refer to Data Link Communications Circuit Description in Data Link Communications.

Conditions for Running the DTC

Ignition 1 voltage is within the normal operating voltage range.

Conditions for Setting the DTC

The restraints ID that is stored in the SDM does not match the restraints ID that is stored in the IPC or the VIN information that is stored in the SDM does not match the VIN information that is stored in the IPC. This test is only run once during power up initialization.

Action Taken When the DTC Sets

- The SDM commands ON the AIR BAG warning lamp via Class 2 serial data.
- The SDM disables all deployments.

Conditions for Clearing the DTC

The restraints ID that is stored in the SDM matches the restraints ID that is stored in the IPC and the VIN information that is stored in the SDM matches the VIN information that is stored in the IPC.

Diagnostic Aids

DTC B1001 is an indication that the restraints ID's stored in both the IPC and SDM do not match or that the VIN's stored in both the IPC and SDM do not match. If either the IPC and/or PCM were replaced, the replacement modules need to be reprogrammed for proper operation.

Test Description

The number(s) below refer to the step number(s) on the diagnostic table.

- This step checks to see if the correct VIN is programmed in the powertrain control module (PCM).
- 4. This step checks to see if the instrument panel cluster (IPC) has been replaced.
- 5. This step explains the proper steps to perform after a IPC has been replaced in order for the IPC to operate properly.
- 6. This step checks to see if the correct VIN is programmed in the IPC.
- 7. This step explains how to properly program the
- exas VIN into the IPC. Hat has a more activate of

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Step	Action	Value(s)	Yes	No
notior 1	Was the SIR Diagnostic System Check performed?	_	Go to <i>Step 2</i>	Go to A Diagnostic System Check - SIR
2	 Install a scan tool. With a scan tool, verify that the PCM is programmed with the correct VIN by comparing the VIN that is stored in the PCM to the VIN plate of the vehicle. Is the PCM programmed with the correct VIN? 	_	Go to <i>Step 4</i>	Go to <i>Step 3</i>
3	Use a scan tool and/or the techline machine to program the correct VIN into the PCM. Did you complete the programming procedure?		Go to <i>Step 9</i>	—
4	Was the IPC replaced?		Go to Step 5	Go to Step 6
5	 Use the F2 function key and follow the instructions on the scan tool under the IPC SPECIAL FUNCTIONS to reprogram the IPC. This allows the IPC to learn the Restraints ID from the SDM and also to learn other important data that is required. Use the F6 function key and follow the instructions on the scan tool under the IPC SPECIAL FUNCTIONS to program the correct VIN into the IPC. Use the techline machine to perform the theft re-learn procedures for the replacement IPC. Did you complete the programming procedure? 		Go to <i>Step 9</i>	
6	With a scan tool, verify that the IPC is programmed with the correct VIN by comparing the VIN that is stored in the IPC to the VIN that is stored in the PCM. Is the IPC programmed with the correct VIN?		Go to <i>Step 8</i>	Go to <i>Step 7</i>

Restraints

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Step	Acti	on	Value(s)	Yes	No
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, \$ (),	Did you complete the program	ming procedure?	102 ant ni baro	Go to Step 9	companer the res
8 : () 7673 K 1963 1963 1963	 Turn OFF the ignition. Replace the inflatable residiagnostic module (SDM) Sensing and Diagnostic M Did you complete the replacent. Reconnect all SIR comports. Verify that all components property mounted. 	traint sensing and , Refer to <i>Inflatable Restraint</i> <i>Module Replacement.</i> nent? onents.	pre nroll the -contains the fait Next <u>the</u> SDM ins SDM to the erefied Informato ore, to Data Lide piton in Data Lide	n cenda el tarb ortranoc gineri a redmun hag MCt ni denota el tarbit Go to Step 9 note C JucifO en c	io me meutanys i restrainy (C 162 compares file Mi traf le sioned in tr communications Communications
9 PD (R	3. Turn ON the ignition, with4. Use the scan tool in ordeDid you complete the action?	n the engine OFF. r to clear the DTCs.) (possedaj	Go to A Diagnostic System Check - SIR	Condritons for ignition Evolasse voltage range
Symp Importa • Per usir all 1 • • • Rev you	toms ant: form <i>A Diagnostic System Cl</i> ng the Symptom Tables in or the following are true: There are no DTCs set. The inflatable restraint sensir module (SDM) can communion serial data link. view the system operation in urself with the system function	Vi heck - SIR before der to verify that org and diagnostic cate via the In order to familiarize Fa ns. Refer to SIR	 isual/Physical I Inspect for after the operation of <i>Checking After</i> Systems. Inspect the ease components for which could can termittent aulty electrical corrause of intermitter termittent and Point and Point	nspection rmarket devices w f the SIR system. market Accessorie sily accessible or w r obvious damage use the symptom. nections or wiring at conditions. Refe or Connections in	vhich could affect Refer to es in Wiring visible system or conditions or conditions g may be the er to <i>Testing for</i> Wiring Systems
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3	Wills a second out voldy that the CP programmed with the content but by nongeared the VM that is stored in the PPU to the Vity that is stored in the CPM.			
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