Body Control Module (BCM) Programming/RPO Configuration

Introduction

A new body control module (BCM) must be programmed with the proper RPO configurations. The BCM stores the information regarding the vehicle options and if the BCM is not properly configured with the correct RPO codes, the BCM will not control all of the features properly. The Tech 2 software will automatically prompt you with the RPOs available for the vehicle. Ensure that the following conditions exist in order to prepare for BCM programming:

- The battery is fully charged.
- The ignition mode switch is in the ON position.
- All disconnected modules and devices are reconnected before programming.

A new BCM installed in the vehicle may set the DTC B1001 00 and DTC C0278 0. This is a normal condition and DTCs will clear after the BCM Setup and BPP Sensor Calibration procedures are performed.

Important

The following procedures must be performed:

1. BCM Setup
2. BPP Sensor Calibration
3. Program VIN

BCM Setup

Important

- After the procedure is completed, the personalization settings of the BCM are set to a default setting. Inform the customer that the personalization must be set again.
Always perform this procedure after BCM or SDM replacement.

A new BCM may set DTC B1001 00 before performing this procedure. This is a normal condition and DTCs will clear after the procedure is performed.

Follow the instructions on the scan tool under Vehicle Control Systems>Module Replacement/Setup Procedures>BCM>BCM Setup to perform this procedure.

During this procedure, besides RPO configuration, the BCM relearns the restraints ID.

**BPP Sensor Calibration**

**Important**

- Always perform this procedure after the BCM was reprogrammed or after the brake pedal position sensor was replaced.
- Do not press the brake pedal during the programming procedure.
- A current DTC C0278 set by BCM before performing this procedure is a normal condition. The DTC will clear after the procedure is performed.

Refer to [Brake Pedal Position Sensor Calibration](#) in Lighting Systems.

**Program VIN**

**Important**

Always perform this procedure after BCM replacement.

Follow the instructions on the scan tool under Vehicle Control Systems>Module Replacement/Setup Procedures>BCM>Program VIN to perform this procedure.

**Important**

After programming, perform the following to avoid future misdiagnosis:

1. Turn the ignition OFF for 10 seconds.
2. Connect the scan tool to the data link connector.
3. Turn the ignition ON with the engine OFF.
4. Use the scan tool in order to retrieve history DTCs from all modules.
5. Clear all history DTCs.