

Component Procedures: Body Control Systems

Table of Contents

1. Body Control System (Article 12801)
2. Body Control System Schematics (Article 12852)
3. All Technical Service Bulletins (itype_100)

Component Procedures: Body Control Systems

Body Control System (Article 12801)

The body control system consists of the body control module (BCM), communications, and various input and outputs. Some inputs, outputs and messages require other modules to interact with the BCM. The BCM also has discrete input and output terminals to control the vehicle's body functions. The BCM is wired to the high speed GMLAN serial data bus, low speed GMLAN serial data bus and Multiple LIN buses and acts as a gateway between them.

Power Mode Master

This vehicle body control module (BCM) functions as the power mode master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determining the power mode that will be sent over the serial data circuits to the other modules that need this information; the PMM will activate relays and other direct outputs of the PMM as needed. Refer to Power Mode Description and Operation for a complete description of power mode functions.

Gateway

The body control module (BCM) in this vehicle functions as a gateway or translator. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus for communication between the various modules. The gateway will interact with each network according to that network's transmission protocol.

All communication between the BCM and a scan tool is on the high speed GMLAN serial data circuits. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control

The various body control module (BCM) input and output circuits are illustrated in the corresponding functional areas on the BCM electrical schematics. Refer to the Body Control System Schematics for more detailed information.

Body Control System Schematics (Article 12852)

Figure 1: Power, Ground, and Subsystem References (1 of 3)

Figure 2: Subsystem References (2 of 3)

Figure 3: Subsystem References (3 of 3)

All Technical Service Bulletins (itype_100)

Tsbs

- IPC Odometer Programming Method Quick Reference Guide (07-08-49-020R, 2023/09/21)