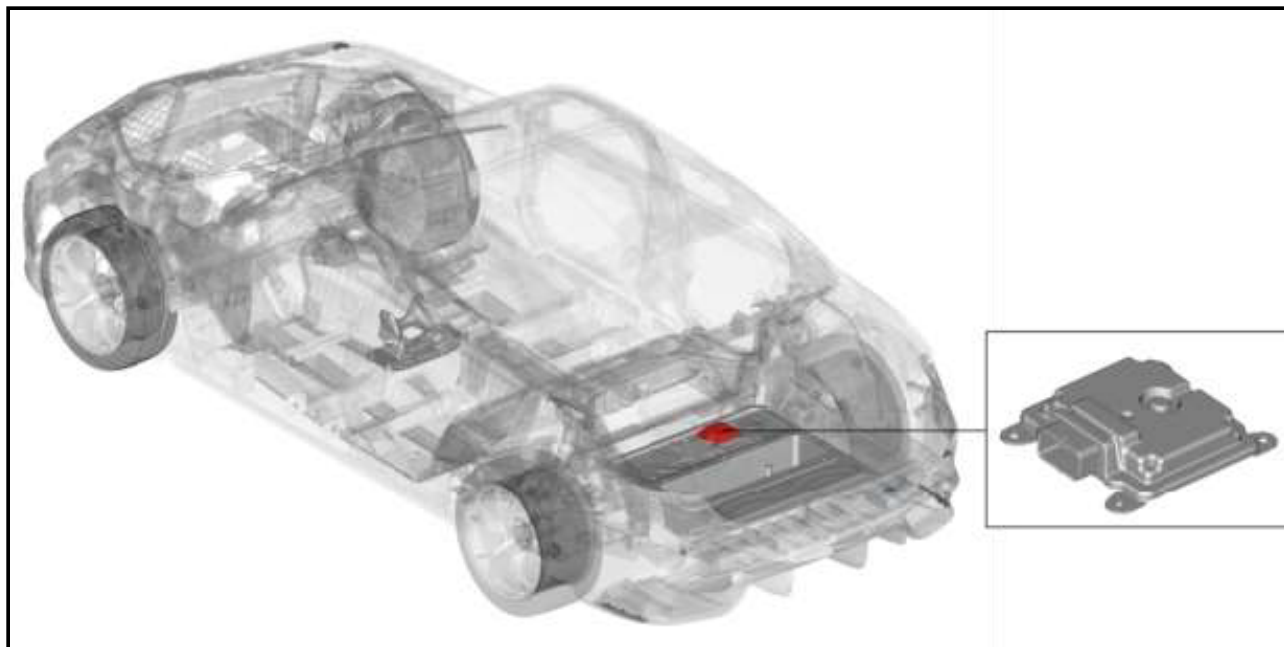


08 - Electrical / 8E - Electronic Control Modules / MODULE, Chassis Domain Control (CDCM) / Description and Operation

DESCRIPTION AND OPERATION



DESCRIPTION

The Chassis Domain Control Module (CDCM) is located in the trunk of the vehicle.

The vehicle is equipped with a system for active dampening suspension the CDCM manages the system.

The CDCM module controls the following:

- Front aerodynamic splitter (available only on the Quadrifoglio version).
- Rear Differential Torque Vectoring. (available only on the Quadrifoglio version).
- Four variable shock absorbers controlled by solenoid valves located inside each shock absorbers.
- Two front vertical active dampening sensors fitted on the body behind the head lamp units, underneath the hood.
- Two vertical active dampening sensor located on the front steering knuckles.

The system continuously monitors the damping of the shock absorbers through the actuators installed in each shock absorber.

The shock absorbers can be adjusted to the conditions of the road surface and to the dynamic conditions of the vehicle.

Two suspension calibrations can be selected: a sport setting or a comfortable setting.

By pressing the button located over the DNA selector on the central tunnel, the system calibrates the shock absorbers to favor driving conditions.

In these conditions, a "SOFT suspensions" indicator appears on the Instrument Panel Cluster (IPC).

The CDCM is equipped with a self-diagnosis function which detects and stores DTC's, if a DTC is present warning indicator lamp will be illuminated on the IPC.

OPERATION

Power to the Chassis Domain Control Module (CDCM) is supplied from the battery by a fuse protected circuit in the front Power Distribution Center (PDC).

The Body Control Module (BCM) supplies the ignition feed to the CDCM.

The active dampening is only enabled in the key-on condition and when a speedometer signal is present.

The CDCM is on the Controller Area Network - CHASSIS (CAN-CH) data bus system and communicates directly to the BCM. The BCM is responsible for sending the signal to the IPC to illuminate the warning indicator lamp in order to alert the vehicle operator of a potential CDCM concerns.