

Active Grille Shutter - Overview

Overview

The active grille shutter system is primarily used to maximize fuel economy by reducing aerodynamic drag on the vehicle. It is also used to shorten engine warm-up time, increasing engine efficiency and providing heat to the vehicle occupants in a timely manner. The active grille shutter actuator(s) receive position commands from the PCM

The active grille shutter system is comprised of independent upper and lower active grille shutter assemblies and active grille shutter actuators.

The active grille shutter system carries out a calibration sequence whenever the engine is started, fully opening and closing the shutters before being positioned in the programmed position as requested by the PCM.

The upper active grille shutter system is controlled in the traditional sense, which is to modulate air flow to the underhood powertrain components and accessories. The lower active grille shutter system is dedicated to thermal management of the turbocharger CAC.