

# ***More About the PASSLOCK SYSTEM***

## **Vehicle/ Powertrain Control Module (VCM/PCM)**

The VCM/PCM communicates with the BCM over the Class 2 serial data line. When the BCM determines a no-start condition, it sends a Class 2 serial data password to the VCM/PCM to disable the fuel injection system. If the BCM receives the expected voltage from the Passlock™ sensor, the BCM sends a Class 2 serial data password to the VCM/PCM to enable the fuel injection system. The VCM/PCM then allows the vehicle to start correctly.

If the Class 2 serial data password from the BCM to the VCM/PCM is not within the Vehicle Security Status Message, the fuel injectors will shut OFF during a start attempt. The SECURITY telltale will be illuminated for 10 minutes. If the VCM/PCM does not receive the same password from the BCM as the last learned one, the vehicle will start and then stall due to the fuel lockout.

## **Fuel Lockout Cycle**

The Passlock™ system has a fuel lockout cycle of approximately 10 minutes. Once the vehicle is in the lockout cycle, the vehicle remains in the lockout cycle for 10 minutes, even if the ignition switch is turned from the RUN position to the OFF position.

The Passlock™ system uses the lockout cycle to synchronize all of the Passlock™ components when any Passlock™ related part is changed. The Passlock™ system requires 3 consecutive lockout cycles to complete the 30 minute learn procedure for a changed component.