

## Vehicle Anti-Theft System (VATS), Passkey, and Passkey II

### *Resistive chip ignition key*

#### Vehicle Anti-Theft System (VATS)

This system has a separate module called the Theft Deterrent Module (TDM) that confirms a resistive chip located in the ignition key. The TDM sends a signal to the PCM if it reads that the resistance value is what the TDM anticipates. The signal informs the PCM that there is a valid key present and the PCM will be able to start the vehicle. When this occurs, no relearning procedure is required on a vehicle equipped with VATS when its PCM was replaced.

#### Passkey

This system also contains a separate module called the TDM which does the same function mentioned for VATS equipped vehicles. When it sends a signal to inform the PCM that the resistance value it reads is what it expects, no relearning procedure is required on a vehicle equipped with Passkey when its PCM was replaced.

#### Passkey II

This system has the TDM function located in the vehicle's body control module (BCM) which validates the resistive chip located in the ignition key. If the TDM function of the BCM reads that the resistance value is the same as what it expects, the BCM will send a signal over a serial data to inform a vehicle's PCM that a valid key is present and that it will be able to start the vehicle.

Important reminder: The vehicle's battery needs to be fully charged when performing a relearn on this system. This is because the battery will be used for 30 minutes without the alternator available for charging. A battery charger needs to be connected to ensure that power is available during programming. It is mandatory that the PCM and BCM are communicating and functioning with each other.

#### Steps for the relearning procedure:

1. Insert the ignition key before turning to the ON position. Do not start the engine. While the engine is off, leave the ignition key in the ON position for approximately 11 minutes.
2. The security light will start to steadily stay on or start flashing during the 11 minutes. Wait until it turns off or stops flashing before proceeding to the next step.
3. Turn the ignition switch to the OFF position for 30 seconds.
4. Repeat steps 1-3 twice more (a total of 3 times including the first attempt)
5. Turn the ignition switch to the ON position for 30 seconds then turn the ignition switch to the OFF position.
6. Finally attempt to start the engine. Once the engine starts and runs successfully, the relearn is complete.

Please try the procedure again if the initial process does not work. You may call our customer service for any related concerns.