

## **PASSKEY- III/ III+ IMMOBILIZATION SYSTEMS**

PASSKEY III is a passive theft-deterrent system. This means you don't have to do anything different to arm or disarm the system. It works when you insert or remove the key from the ignition.

PASSKEY III uses a radio frequency transponder embedded within the plastic of the key that matches a decoder within the vehicle. The PASSKEY III is a 40 bit fixed code system and the PASSKEY III+ is a 32/ 84 bit crypt system. The crypt algorithm is rolling or changing each ignition cycle thus meeting strict security requirements of European countries.

When the PASSKEY III system senses that someone is using the wrong key, the vehicle's starter and fuel systems are disabled via a class 2 message. Anyone using a trial-error method to start the vehicle and will be discouraged because of the high number of electrical key codes.

It is possible for the PASSKEY III decoder to learn the transponder value of a new or replacement key. Up to 10 keys may be programmed for the vehicle. Diagnostics are provided within the module and reported on the class 2 link before and during the IGN on cycle.

The PASSKEY III comes in two configurations. The column mount is a single 5 wire system requiring battery, ground, ignition, and (2) class2 lines. A dash version is available also that has a 10 pin controller and a 3 pin reader/exciter module. The added I/O allows for interface between the two modules. The dash version allows more flexibility in Ignition styling, however, custom column mount housing are also available.

The key transponder to coil face can be located at distances of 1-20mm. However, each application should be evaluated for optimum reliability. Modifications to the algorithm are possible to aid in handshaking between the controller and the vehicles powertrain control unit.