



## Ideas on the *Move*

Siemens Automotive

### **Description of the Siemens immobiliser system type Step5.6**

This Siemens system is a vehicle immobilization system. The electronic devices in the immobilisation system are the immobilizer Step5.6 and a transponder. The immobilizer Step5.6 is located near the vehicle's ignition lock. The transponder is located within the ignition key. The transponder is magnetically coupled to the Control Module. The immobilizer Step5.6 is connected via a wire harness to vehicle power, vehicle ground, vehicle ignition, and a ECCS vehicle communications bus. The ECCS communications bus is a single line 0V to +12V, ISO9141-2 compatible interface, and allows communications between the immobilizer Step5.6 and the Engine Management System.

#### System Operation

This immobilizer system is a passive immobilization system. The immobilizer Step5.6 uses a magnetic couple to read the transponder's identification code. The communication between the Immobiliser and transponder is encrypted. The module compares the identification code received from the transponder with identification codes stored in its non-volatile memory. If the identification code from the transponder matches one of the identification codes stored in memory, the module sends a "Valid Key" message and associated "rolling code" to the Engine Management System controller. If there is no match, the module sends an "Invalid Key" message to the Engine Management System controller. This causes the Engine Management System to turn off the engine.

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