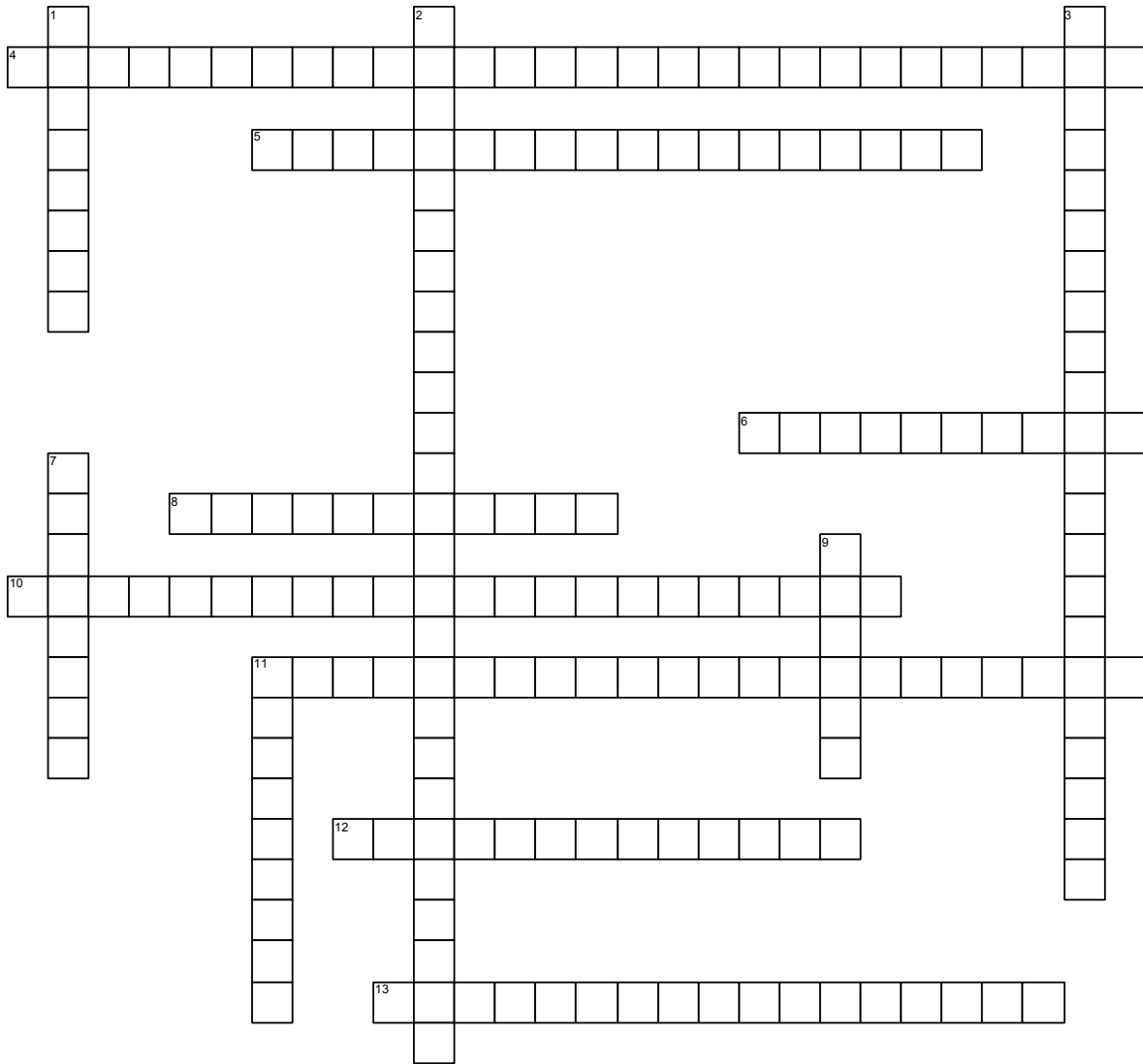


Immobilizer Systems

Chapter 12



<http://jameshaldeman.com>

ACROSS

- 4 Most security systems today use a _____ security system, which has two main components.
- 5 While the _____ part of the key fob has a battery to power the transmitter, the RFID chip part of the key fob does not require a battery to function.
- 6 The antenna for the _____ is a coil of wire mounted within the plastic ring that mounts around the lock cylinder.
- 8 The _____ has an antenna, which consists of a coil of wire as well as a circuit board containing the processing electronics and data memory.
- 10 A special tester was required to test the first immobilizer system used by General Motors called _____.
- 11 Ford uses a responder key for their anti-theft system, which is called the _____.
- 12 A _____ uses the key fob as a transmitter, which communicates with the vehicle as it comes close.
- 13 The _____ numbers are stored in a nonvolatile memory of the immobilizer module.

DOWN

- 1 _____ truck systems use a Hall-effect sensor and magnets in the lock cylinder with a conventional key.
- 2 Beginning in 1998, Chrysler started a security system known as the _____.
- 3 _____ is a security system that includes sensors that detect glass breakage or entry into the vehicle and sounds the alarm when these occur.
- 7 Each immobilizer module has its unique _____ that is stored in the PCM.
- 9 A _____ is the object that is a decoration on a key ring and usually contains a transmitter used to unlock a vehicle.
- 11 Newer systems include the _____ which also uses a resistor pellet in the ignition key.