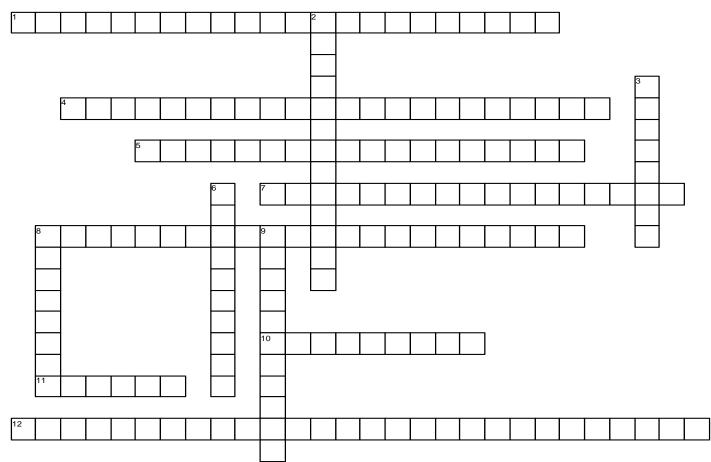
## Immobilizer Systems

Chapter 12



http://jameshalderman.com

## ACROSS

- 1 \_\_\_\_\_\_ is a security system that includes sensors that detect glass breakage or entry into the vehicle and sounds the alarm when these occur.
- 4 A special tester was required to test the first immobilizer system used by General Motors called \_\_\_\_\_\_
- 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.
- 7 The \_\_\_\_\_ numbers are stored in a nonvolatile memory of the immobilizer module.
- 8 Ford uses a responder key for their antitheft system, which is called the \_\_\_\_\_\_.
- **10** Newer systems include the \_\_\_\_\_ which also uses a resistor pellet in the ignition key.
- 11 A \_\_\_\_\_ is the object that is a decoration on a key ring and usually contains a transmitter used to unlock a vehicle.
- 12 Most security systems today use a \_\_\_\_\_

\_\_\_\_\_ security system, which has two main

components.

## DOWN

- 2 A \_\_\_\_\_ uses the key fob as a transmitter, which communicates with the vehicle as it comes close.
- 3 Each immobilizer module has its unique \_\_\_\_\_ that is stored in the PCM
- 6 The antenna for the \_\_\_\_\_ is a coil of wire mounted within the plastic ring that mounts around the lock cylinder.
- 8 \_\_\_\_\_\_truck systems use a Hall-effect sensor and magnets in the lock cylinder with a conventional key.
- **9** The \_\_\_\_\_\_ has an antenna, which consists of a coil of wire as well as a circuit board containing the processing electronics and data memory.

