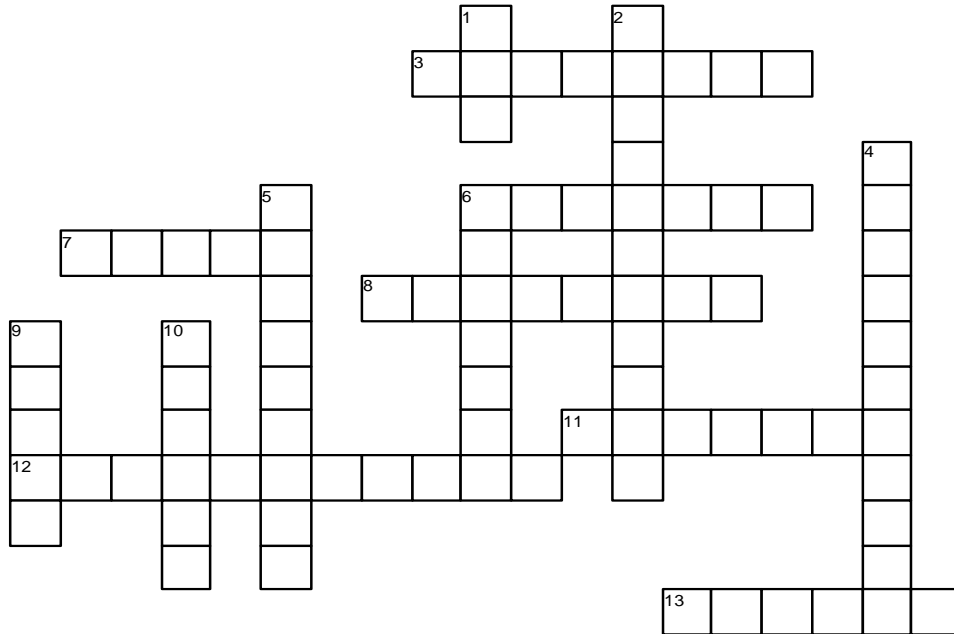


Automotive Electrical and Engine Performance 9th Edition

Chapter 19 - Security and Immobilizer Systems



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ACROSS

- 3 Normal operation of the _____ light includes a self-test and flashes a few times then goes out.
- 6 A _____ keyless entry system uses the key fob as a transmitter, which communicates with the vehicle as it comes into a specific range.
- 7 _____ Frequency Identification (RFID): A technology that uses electromagnetic fields to transfer data, commonly used in key fobs and vehicle immobilizers to verify the presence of a valid key.
- 8 _____ III: A vehicle security system designed to prevent unauthorized engine start by disabling the fuel or ignition system if the correct key is not detected.
- 11 _____ Antitheft System or (VATS).
- 12 When a valid key is used, and is rotated to the start position, the engine cranks and starts and the _____ symbol on the dash will flash on and off for about 2 seconds, and then go off.
- 13 Beginning in 1998, Chrysler started a security system known as the _____ Key Immobilizer System (SKIS).

DOWN

- 1 _____ fob: A small device containing a transmitter used for unlocking a vehicle and starting the engine remotely; often includes both remote keyless entry (RKE) and RFID functionality.
- 2 An electronic chip embedded in a key or key fob that communicates with the vehicle's immobilizer system to enable engine start when a valid key is present.
- 4 A device that acts as both a transmitter and receiver, often used in immobilizer systems to communicate with the key fob or transponder.
- 5 _____ ID: A registration identification required by technicians to access key programming and security-related vehicle information.
- 6 Ford uses a responder key for their antitheft system, which is called the _____ Antitheft System (PATS).
- 9 Early vehicle theft security systems only monitored the doors for a _____ unlock signal.
- 10 _____ Keyless Entry (RKE): A feature allowing vehicle doors to be locked or unlocked remotely via a key fob.