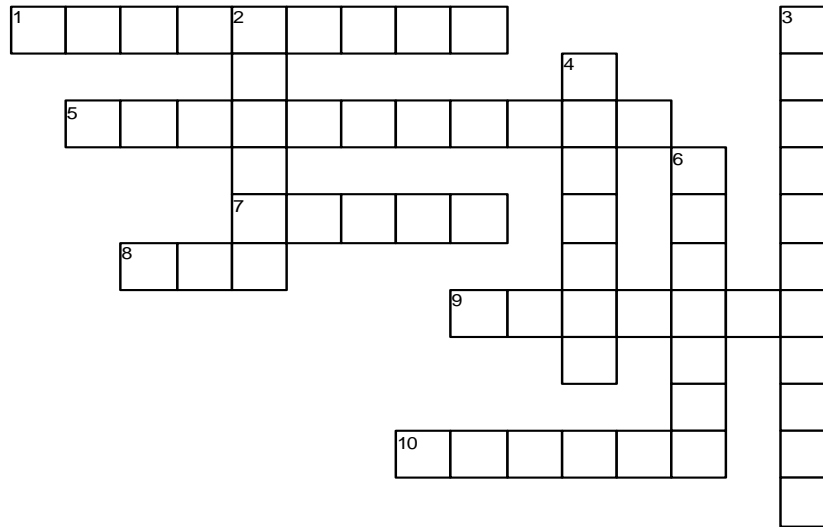


## Advanced Engine Performance Diagnosis 8<sup>th</sup> Edition

### Chapter 12

### Immobilizer and Push Button Start Systems



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#### ACROSS

- 1 \_\_\_\_\_ ID: An identification system used by authorized locksmiths to access security codes or key-specific information required when programming new keys or key fobs into the vehicle's immobilizer system.
- 5 A chip embedded in the key or key fob that communicates wirelessly with the vehicle's immobilizer system, allowing the vehicle to start when the correct signal is detected.
- 7 \_\_\_\_\_ Frequency Identification: A security technology used in key fobs, consisting of a chip that communicates wirelessly with the vehicle's immobilizer system.
- 8 \_\_\_\_\_ fob: A device programmed to the vehicle, typically containing both a transmitter and receiver.
- 9 \_\_\_\_\_ Antitheft System: A security system that prevents the vehicle from starting if the correct key or key fob is not used.
- 10 \_\_\_\_\_ keyless entry: A system that allows the driver to lock or unlock the vehicle doors remotely by using a key fob. The RKE system typically uses a battery-powered transmitter in the key fob (p. 148).

#### DOWN

- 2 \_\_\_\_\_ key immobilizer system: A security system that prevents the vehicle from starting unless the correct key with a registered transponder is detected.
- 3 A device inside the vehicle that receives the signal from the transponder key or key fob and communicates with the immobilizer system to authorize the vehicle to start.
- 4 Passive \_\_\_\_\_ entry: A system that allows entry to the vehicle without actively using the key fob.
- 6 \_\_\_\_\_ antitheft system: A security system designed to prevent unauthorized use of the vehicle by disabling certain vehicle functions, such as the ignition or fuel system, unless the correct key is used.