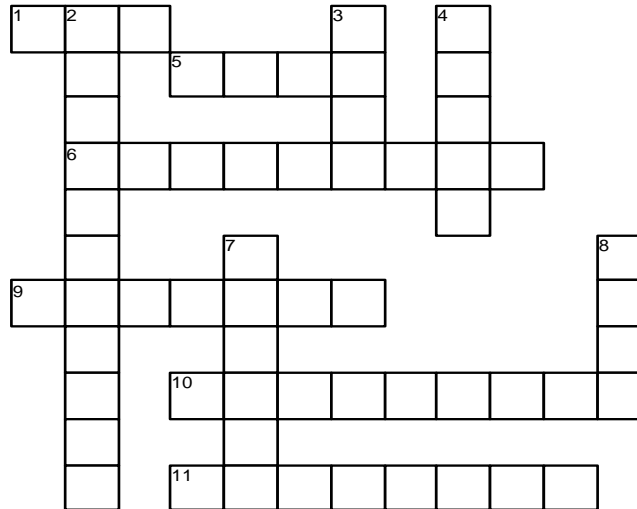


Automotive Electrical and Engine Performance 9th Edition Chapter 45 - Module Programming



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ACROSS

- 1 J2534: A standard developed by SAE for reprogramming vehicle modules through a pass-through device, ensuring compatibility across manufacturers.
- 5 _____-the-Air (OTA): A method of updating vehicle software wirelessly through the internet, eliminating the need for in-shop updates.
- 6 _____ ID: A registration number required for technicians to access security-related information during module reprogramming or key programming.
- 9 _____ Maintainer: A device that ensures the vehicle's battery remains charged during module reprogramming, preventing voltage drops that could interrupt the process.
- 10 SAE J2534 Version 5.00: The latest version of the J2534 standard, providing updated _____ and features for module reprogramming.
- 11 SAE J2534-1: A subset of the J2534 standard focusing on the reprogramming of _____-related systems.

DOWN

- 2 _____ Programming Interface (API): A set of protocols and tools that allow different software applications to communicate with each other, often used in automotive systems to facilitate diagnostics and data exchange.
- 3 _____ (Programmable Read-Only Memory): A type of memory chip that stores permanent data and can be reprogrammed to update vehicle modules.
- 4 (National Automotive Service Task Force) An organization that provides access to vehicle manufacturers' service information and reprogramming tools for independent repair facilities.
- 7 _____ (Electrically Erasable Programmable Read-Only Memory): A memory type that retains data when power is lost and can be reprogrammed electronically, commonly used in engine control modules.
- 8 _____-through Device: A tool used between a vehicle and a computer to facilitate software reprogramming or diagnostics.