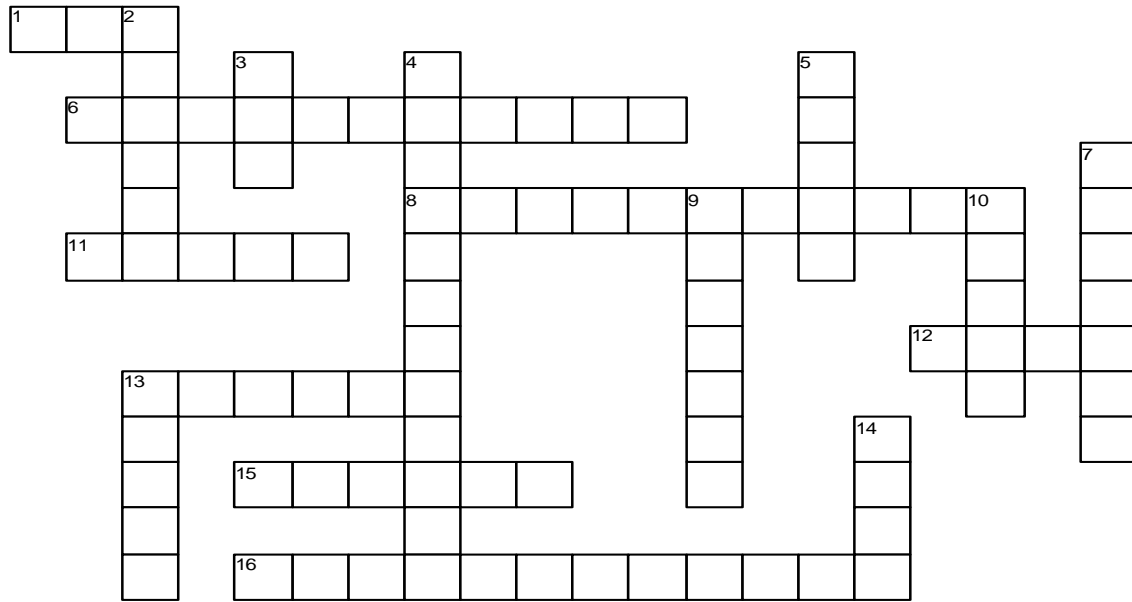


## Advanced Engine Performance Diagnosis 8<sup>th</sup> Edition

### Chapter 8

### CAN and Network Communications



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#### ACROSS

- 1 A term used to describe a communication network in a vehicle where digital messages are transmitted among electronic modules or computers.
- 6 A tool used to access data bus terminals while using a scan tool. It allows technicians to connect to specific circuits and observe data communications.
- 8 \_\_\_\_\_ resistors: Resistors used at the ends of a communication bus to reduce electrical noise and ensure clear transmission of data in a network.
- 11 \_\_\_\_\_ 2 is a communication protocol used by General Motors for module communication in vehicles.
- 12 \_\_\_\_\_-based protocol is a communication protocol used in some Ford vehicles for module communication, primarily in older models
- 13 \_\_\_\_\_ pack: A central point in a star link network where serial data lines from multiple modules are spliced together. Splice packs allow easy connection and diagnosis of network issues (p. 97).
- 15 \_\_\_\_\_ data: Data transmitted in a series of rapidly changing voltage signals over a communication line, commonly used in vehicle networks to send information between modules.
- 16 \_\_\_\_\_ Controller Interface (PCI): A communication protocol used by Chrysler vehicles to allow modules to communicate with each other and share data.

#### DOWN

- 2 \_\_\_\_\_ Communications Interface (SCI): A protocol used in some vehicle networks to facilitate communication between modules, typically slower and used for less time-sensitive information.
- 3 A high-speed communication protocol used in vehicles.
- 4 The process of sending multiple signals over a single communication line, allowing different vehicle modules to share the same communication bus.
- 5 \_\_\_\_\_ of health is a term used to describe the operational status of a vehicle module or network. It indicates whether the system is functioning correctly or if there is a fault (p. 95).
- 7 \_\_\_\_\_ pair: A pair of wires twisted together to reduce electromagnetic interference (EMI). This is commonly used in vehicle networks to ensure reliable data transmission between modules (p. 96).
- 9 The communication infrastructure that connects various modules in a vehicle, allowing them to share data and coordinate operations.
- 10 General Motors' term for the high-speed CAN bus used for module communications in vehicles.
- 13 A variant of the CAN communication protocol that uses a single wire for communication, typically used in certain low-speed applications in vehicles.
- 14 Another term for a module in a vehicle's communication network. Nodes are responsible for specific tasks, such as controlling windows or monitoring sensor data.