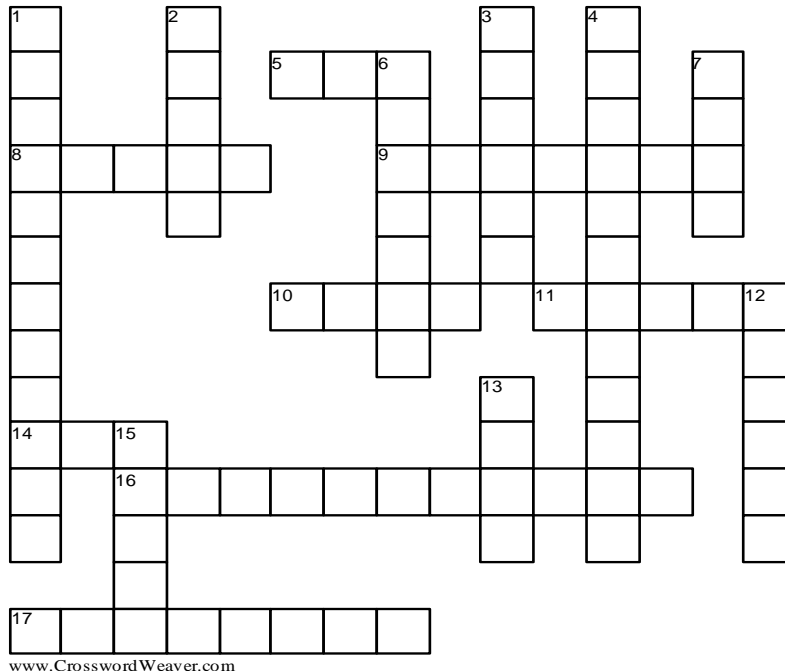# Automotive Electrical and Engine Performance 9th Edition
Chapter 11 - CAN and Network Communications

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ACROSS

5 A high-speed communication protocol used for real-time data transfer in vehicle control systems.

8 General Motors Local Area Network, a CAN-based communication protocol for data exchange in GM vehicles.

9 _____ pair: Two wires twisted together to reduce electromagnetic interference and maintain signal integrity.

10 _ _ _ _-based protocol : A communication protocol based on Universal Asynchronous Receiver-Transmitter technology, used in automotive networks.

11 _____ 2: A serial communication system used in General Motors vehicles for high-speed data exchange between control modules.

14 A communication network within a vehicle that enables data exchange among electronic modules or computers.

16 _____ resistors: Resistors placed at the ends of a BUS network to prevent signal reflections and ensure proper data transmission.

17 _____ box (BOB): A diagnostic tool that allows access to network terminals for testing and activating modules while using a scan tool.

DOWN

1 _____ Controller Interface (PCI): A communication protocol used to exchange data between modules in certain vehicle networks.

2 _ _ _ _ _ (Single-Wire CAN): A variant of the CAN protocol that uses a single wire for communication, often used in low-speed networks.

3 _____ Communications Interface (SCI): A type of serial communication protocol used to transmit data between automotive modules.

4 A technique where multiple data signals are sent over a single wire, with the signals separated at the receiving end.

6 A system of interconnected modules or computers that share data within the vehicle.

7 An individual module or control unit in a communication network.

12 _____ pack A connection point in a network where multiple wires meet, allowing data to be distributed among various modules.

13 Serial _____: Data transmitted sequentially, bit by bit, over a single communication line.

15 _____ of health (SOH): A measure of the health or functionality of a module or system within the vehicle network.