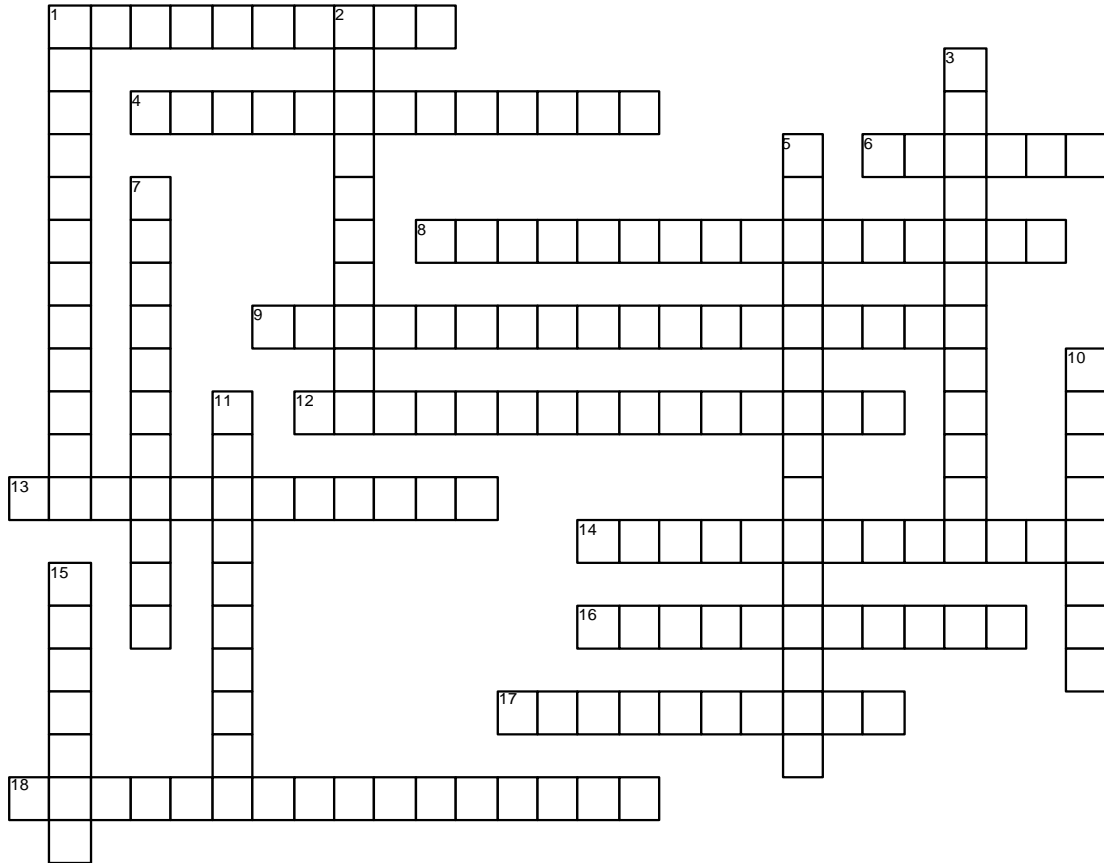


Electronic Transmission Controls

Chapter 9



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ACROSS

- 1 Honda's _____ volume index is shown on a scan tool as a number. The higher the number, the more fluid volume is required to fill a clutch and can be used to see if there are worn friction plates in a certain clutch pack.
- 4 General Motors calls their adaptive control Transmission _____ (TAP) system, which manages oil pressure to control clutch fill rates.
- 6 _____ management provides accurate control of shift timing and provides a smoother driving experience.
- 8 Another term for adaptive control is _____.
- 9 The transmission's hydraulic pump pressure regulator valve is controlled by the pressure regulator valve that is controlled by a pulse-width-modulator solenoid called _____ control.

- 12 _____ keeps shift duration within a certain time period as determined by the driver's habits.
- 13 Another name for output speed sensor is _____ sensor.
- 14 An automatic transmission can be controlled by its own computer, called a transmission _____.
- 16 The _____ sensor is used by the PCM for speedometer and cruise control operation as well as for transmission/transaxle operation and shift related fault detection.
- 17 The brake switch is also called a _____/_____ switch.
- 18 The transmission _____ sensor can also be called a transmission oil temperature sensor.

DOWN

- 1 Chrysler refers to the adaptive control as the _____ index (CVI), which is the length of time it

takes to fill the clutch with fluid.

- 2 The _____ sensor measures the speed of the input shafts on automatic transmissions/transaxles.
- 3 A _____ sensor is also called an input speed sensor because it is used to determine the speed of the turbine shaft.
- 5 Another name for Electronic Pressure Control (EPC) is _____ solenoid.
- 7 The transmission _____ is used as an input to the PCM/TCM, which indicates the drive range request by the driver.
- 10 Most speed sensors use a coil of wire that is wrapped around a _____ core.
- 11 Some speed sensors are _____ and create an on-off square wave signal that is used directly by the PCM/TCM for speed detection.
- 15 A _____ or limp-in gear is the forward speed that is used if there is a failure in the electronic or computer system.