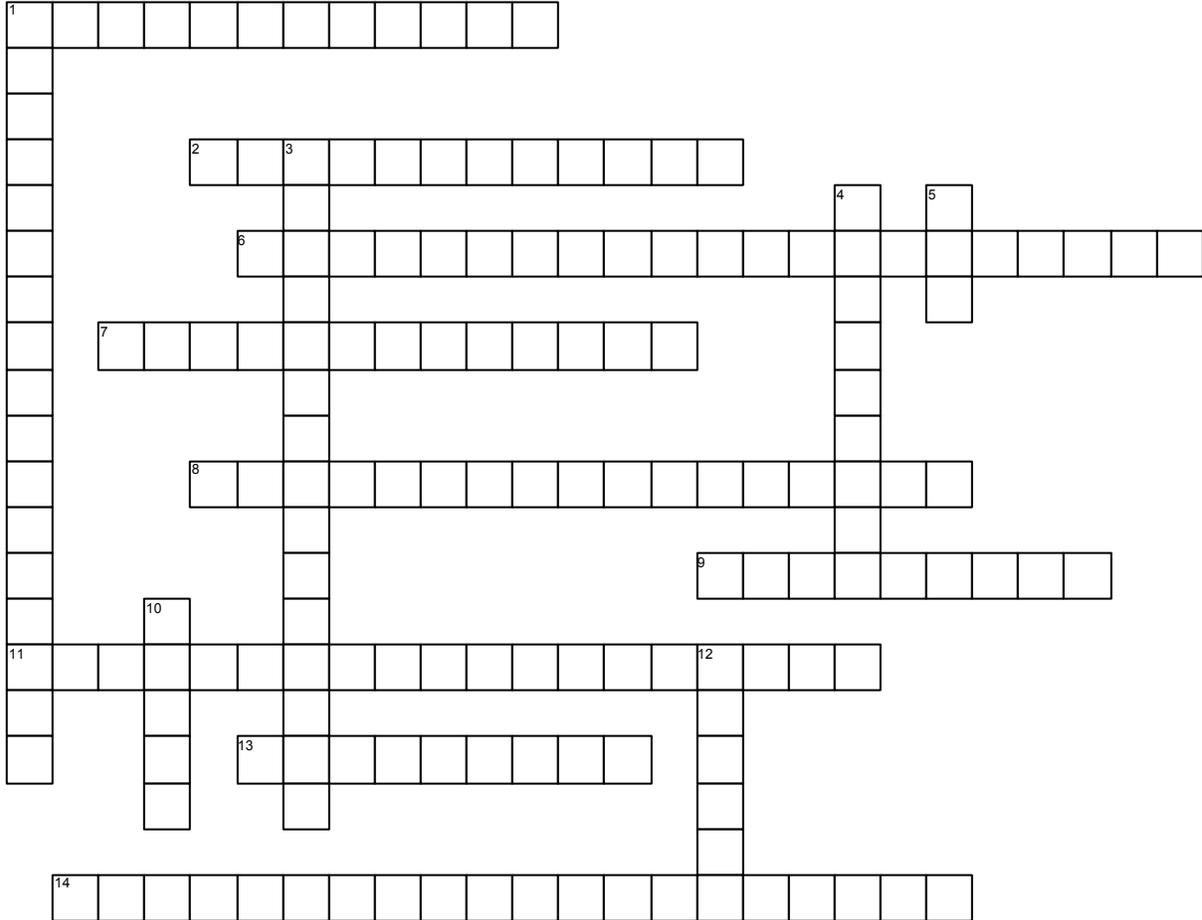


Hybrid Vehicle Transmissions and Transaxles

Chapter 11



<http://jameshaldeman.com>

ACROSS

- 1 The 4WD version of the Ford Escape hybrid uses a separate _____ from the transaxle to mechanically drive the rear axle.
- 2 In RWD applications, it is most common to utilize a transmission along with a _____ and final drive at the rear axle to transmit engine torque to the drive wheels.
- 6 In order to increase the efficiency of the transmission, the _____ is applied and the turbine is locked to the torque converter housing.
- 7 The _____ of the vehicle is then converted into electrical energy by MG2.
- 8 A one-way clutch is also known as an _____.
- 9 A special graph, known as a _____ shows the speed relationship between the various elements.
- 11 MG1 can be configured as a motor and will draw power from MG2 during a phase known as _____.
- 13 Both 4th and 5th gears use an _____ ratio, because the transmission input shaft will turn slower than the output shaft.
- 14 A scan tool can be used to access DTCs and also to perform _____ of the transmission solenoids.

DOWN

- 1 Most automatic transmissions use multiple _____ to produce the various gear ratios for each speed range of the transmission.
- 3 In a _____ vehicle, a transaxle assembly is used.
- 4 Each gear position of the transaxle has a specific _____, which describes how fast the input shaft will turn relative to one turn of the output shaft.
- 5 A PCM or _____ is responsible for shift points, shift quality, line pressure, and torque converter clutch lockup.
- 10 A _____ holds an element stationary so that it acts as a reaction member.
- 12 In order to move a vehicle, _____ must be applied to the drive wheels.