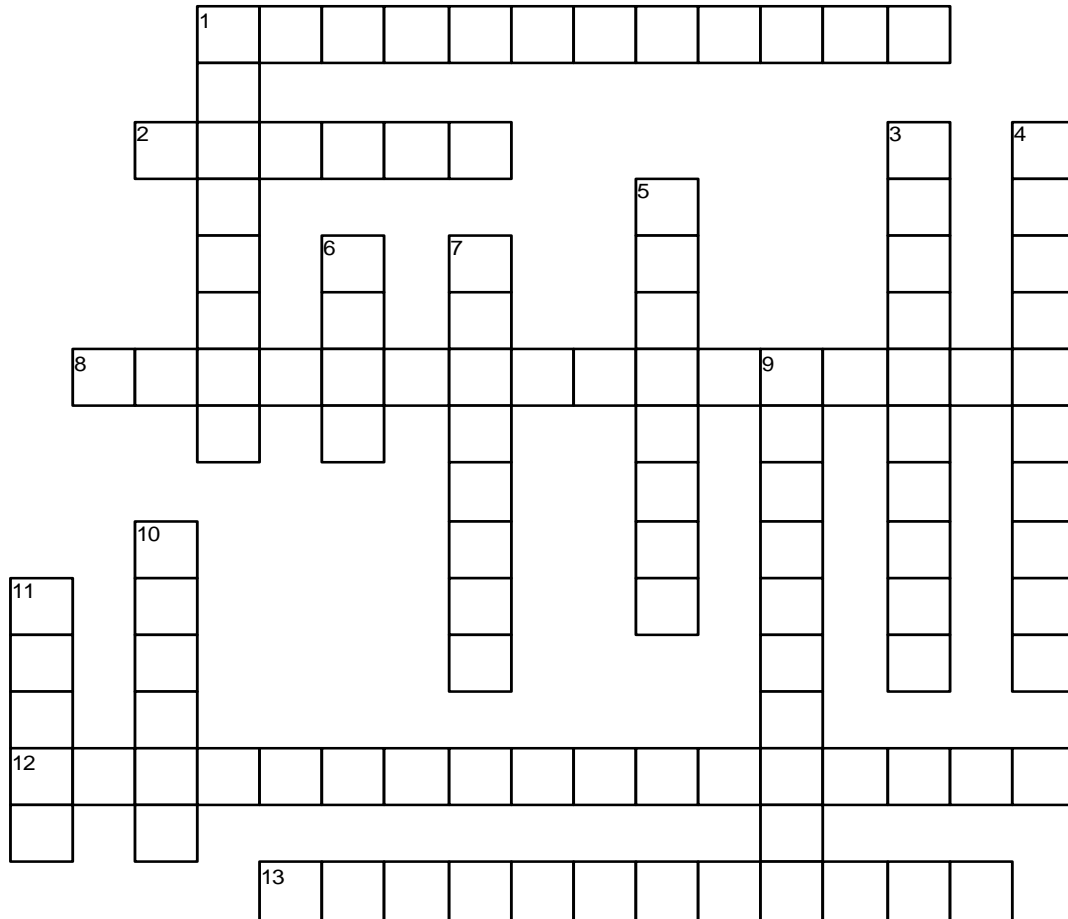


EV And HEV Transmissions

Chapter 131



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ACROSS

- 1 In a four-wheel-drive (4WD) or all-wheel-drive (AWD) vehicle, a _____ or rear electric motor is used to distribute power to all four wheels.
- 2 To move a vehicle, _____ must be applied to the drive wheels.
- 8 _____ storage accumulator is used to provide fluid pressure as the ICE restarts after the idlestop mode.
- 12 In order to adapt a conventional automatic transmission to a hybrid powertrain, an _____ pump is used to maintain fluid pressure in the transmission during ICE idle-stop.
- 13 All vehicles, regardless of the power source, require the use of a transmission to achieve reasonable _____ and efficiency.

DOWN

- 1 Routine service is all that is needed or required of the _____ transmission.
- 3 Some full-hybrid systems have a _____ of operation, using a single planetary gear set to split engine power to drive the wheels or charge the battery.
- 4 In rear-wheel-drive (RWD) applications, it is most common to use a transmission along with a _____ and differential at the rear axle to transmit torque to the drive wheels.
- 5 The two-mode unit is effectively an electronically _____ transmission (EVT).
- 6 An ICE is most efficient when it is operating near its torque _____.
- 7 In _____ mode the engine stops, which will in turn stop the transmission oil pump and cause the transmission to go to "neutral."
- 9 The Toyota _____ transaxle is a series-parallel hybrid technology.
- 10 Transmission service for the 4L60E model M33 is limited to fluid and _____ changes.
- 11 HEV transmissions are different based on the _____ of the hybrid vehicle in which they are installed.