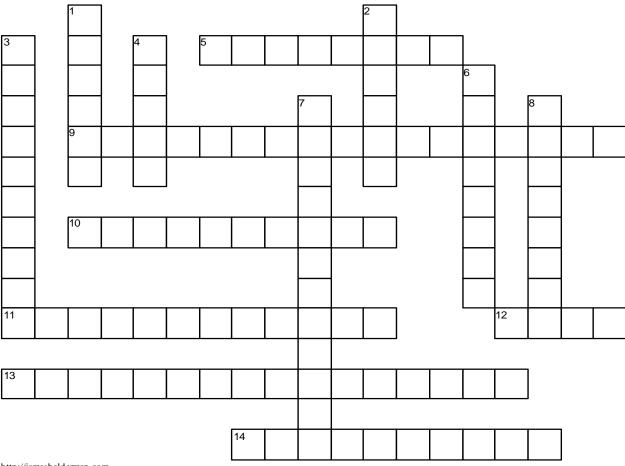
# EV and HEV Transmissions

# Chapter 17



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#### **ACROSS**

## 5 Routine service is all that is needed or required of the \_\_\_-transmission. 9 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. 10 The Toyota \_\_\_ \_\_\_- transaxle is a seriesparallel hybrid technology. 11 In a four-wheel-drive (4WD) or all-wheel-drive (AWD) \_\_\_ or rear electric motor is used to distribute power to all four wheels. 12 An ICE is most efficient when it is operating near its torque \_\_\_ \_storage accumulator is used 13 to provide fluid pressure as the ICE restarts after the idlestop mode. 14 Some full-hybrid systems have a \_\_\_ operation, using a single planetary gear set to split engine power to drive the wheels or charge the

### DOWN

1	Transmission service for the 4L60E model M33 is
	limited to fluid and changes.
2	To move a vehicle, must be applied to the
	drive wheels.
3	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.
4	HEV transmissions are different based on the
	of the hybrid vehicle in which they are installed.
6	In mode the engine stops, which will in
	turn stop the transmission oil pump and cause the
	transmission to go to "neutral."
7	All vehicles, regardless of the power source, require
	the use of a transmission to achieve reasonable
	and efficiency.
8	The two-mode unit is effectively an electronically
	transmission (EVT).

