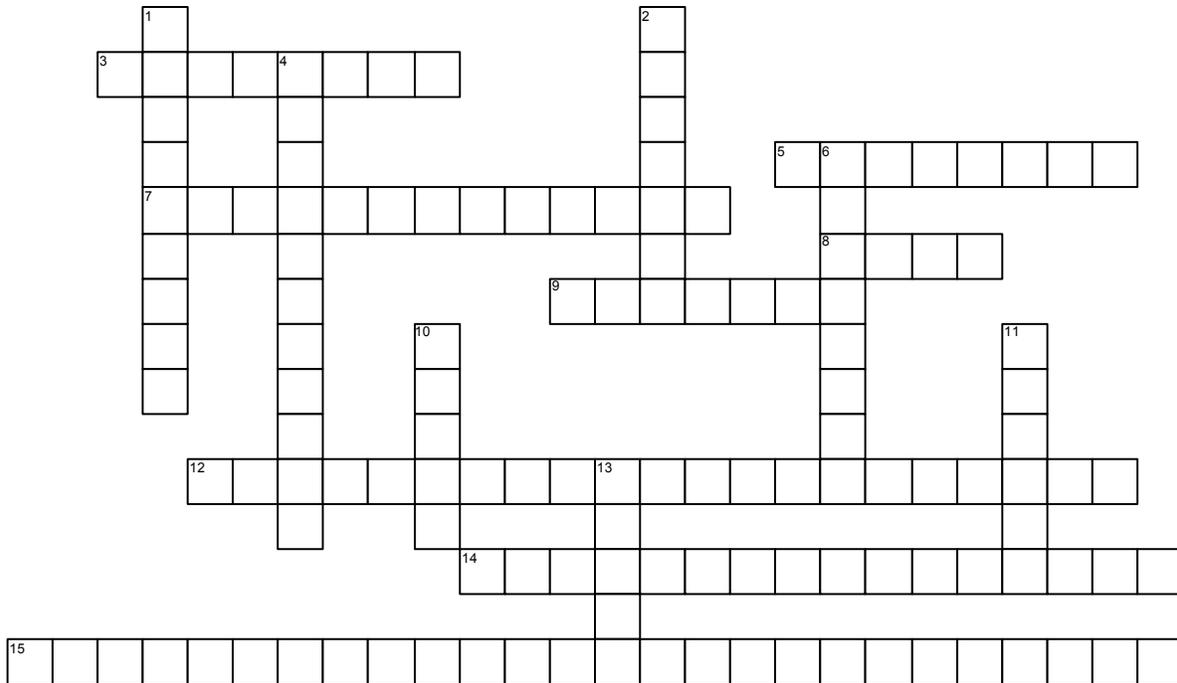


Automatic Transmissions and Transaxles

Chapter 39



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ACROSS

- 3 Eliminating torque converter _____ can improve fuel economy approximately 4% to 5% during freeway cruising.
- 5 The outermost member of the gear set is the _____, the internal type with teeth inside.
- 7 The _____ holds the pinion gears which revolve around the sun gear.
- 8 In the _____ position, the output shaft is locked to the case of the transmission/transaxle, which keeps the vehicle from moving.
- 9 The _____ is located on the engine side of the converter.
- 12 Lockup torque converters reduce slippage by using a _____ to lock the turbine to the cover.
- 14 Most automatic transmissions use a _____ system that does not require manual gear shifting or an interruption of torque flow to change gear ratios.
- 15 _____ is highly refined oil with a viscosity similar to SAE 20W-20 oil, is red in color and specially designed for use in an automatic transmission.

DOWN

- 1 A torque converter is typically bolted to a thin metal disc called a _____.
- 2 The _____ gets its name from its position at the center of the gear set.
- 4 Another name for pinion gears are _____.
- 6 The _____ is the driving member inside the torque converter housing and is driven by the engine.
- 10 A torque converter is capable of transferring some engine torque to the transmission with the engine at idle speed which results in some vehicle movement, called _____, if the brakes are released.
- 11 A torque converter also contains the _____, or reactor, which is a reaction member mounted on a one-way clutch.
- 13 The impeller _____ pick up fluid in the converter housing and direct it toward the turbine.