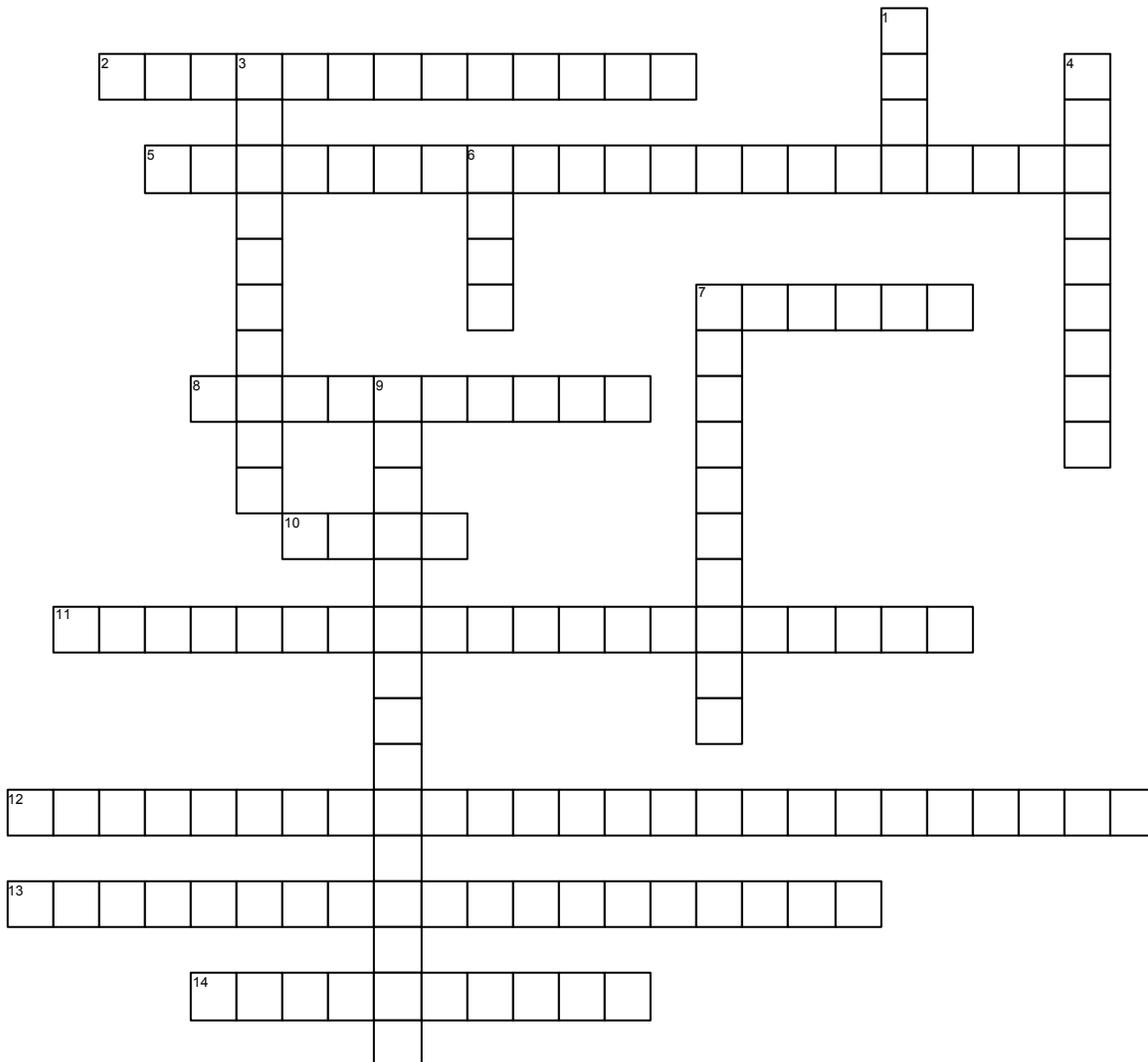


# General Motors Hybrid Vehicles

## Chapter 16



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### ACROSS

- 2 The \_\_\_\_\_ is under joint development by General Motors, Chrysler, and BMW.
- 5 The \_\_\_\_\_ makes regenerative braking possible on the Saturn Aura.
- 7 The \_\_\_\_\_ 5300 V-8 engine delivers 295 horsepower (200 kW) and 335 lb-ft (463 N-m) of torque which is the same as its non-hybrid counterpart.
- 8 The electric motor is not capable of \_\_\_\_\_ the truck forward at lower speeds using battery and electric motor power alone.
- 10 The \_\_\_\_\_ cooling system uses a 50/50 pre-mixed DEX-COOL coolant and deionized water.

- 11 The \_\_\_\_\_ system provides up to 2,400 watts of 120-volt AC power.
- 12 The pickup trucks have what GM calls a \_\_\_\_\_ hybrid system.
- 13 The overall goal of the \_\_\_\_\_ was to maximize fuel economy on vehicles with relatively high fuel consumption and high-potential sales volume.
- 14 The \_\_\_\_\_ takes the vehicle from second gear through to overdrive.

### DOWN

- 1 Three \_\_\_\_\_ batteries are used in the GM parallel hybrid truck to provide a 36-volt nominal voltage and a charging

- \_\_\_\_\_ voltage of 42 volts.
- 3 Chevrolet/GMC parallel hybrid truck is a \_\_\_\_\_ that was built from 2004 until 2008.
- 4 The \_\_\_\_\_ is for accelerating from a standstill to second gear.
- 6 A 42-volt \_\_\_\_\_ pump replaces the traditional belt-driven unit.
- 7 Most hybrid electric vehicles use the computer to control the electric motor to help reduce \_\_\_\_\_ in crankshaft speeds that normally occur at low speeds.
- 9 A three-phase AC induction electric motor, called an \_\_\_\_\_ by GM, was selected due to low cost, simple controls, and its ability to perform over the entire engine operating range.