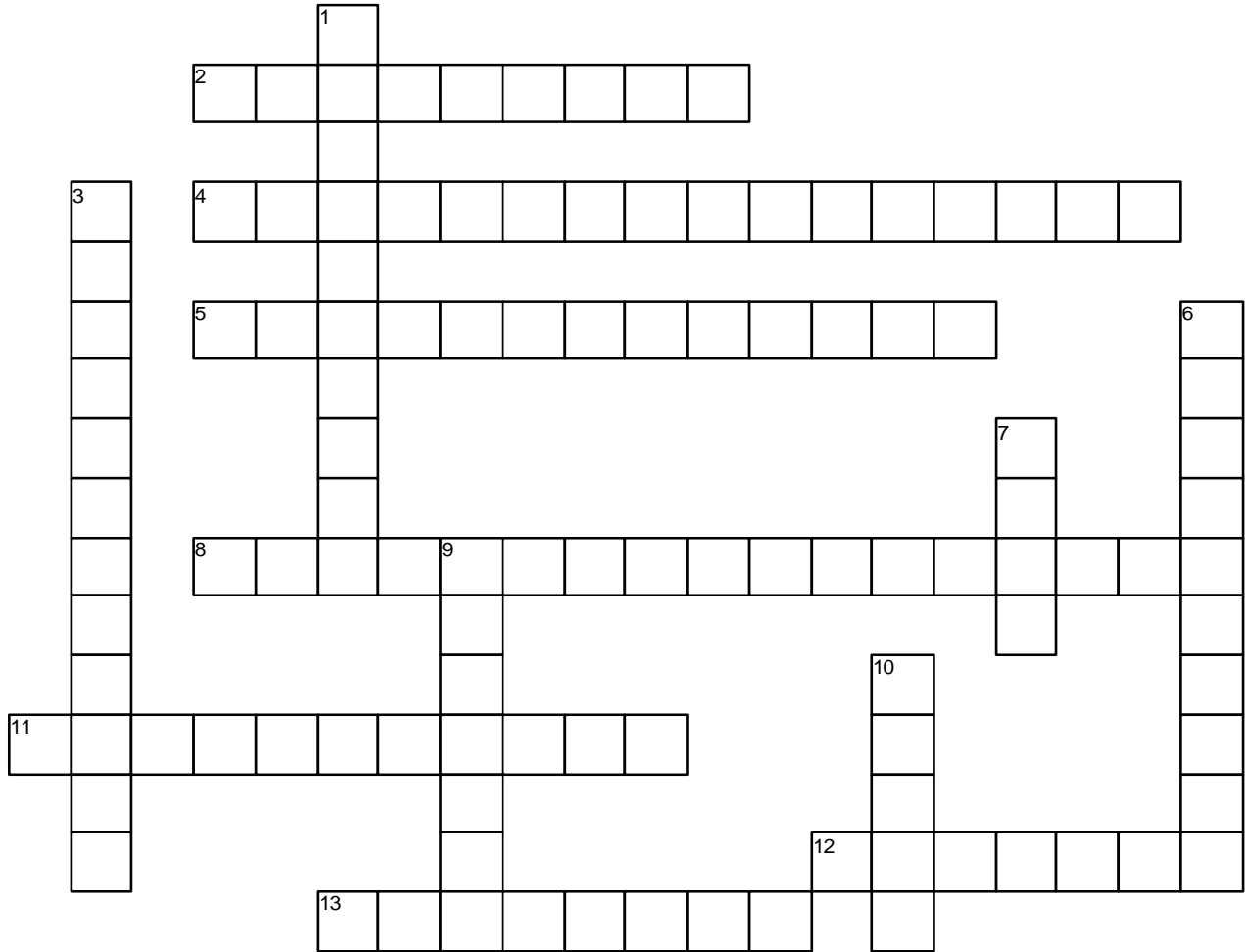


# Hybrid and Electric Vehicle Preventative Maintenance

## Chapter 5



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### ACROSS

- 2 Hybrid and electric vehicles should be \_\_\_\_\_ the same as any other type of vehicle.
- 4 Most electric vehicle chassis are developed using a "\_\_\_\_\_."
- 5 The purpose of a \_\_\_\_\_ tire is to eliminate noise in the 130–240 Hz range that would be normally covered up by normal engine noise in a vehicle with an ICE.
- 8 As part of correctly diagnosing a hybrid or electric vehicle, the technician must understand what the indicators in the \_\_\_\_\_ and message center mean.
- 11 Many hybrid vehicles rely on the air that is heated and cooled for the passenger compartment to regulate the temperature of the \_\_\_\_\_ battery.
- 12 During routine service work, there is no need for a technician to \_\_\_\_\_ the high-voltage system.
- 13 Most vehicle manufacturers will recommend using \_\_\_\_\_ coolant because using tap water (half of the coolant) that has minerals could cause corrosion issues.

### DOWN

- 1 Many electric power steering systems contain \_\_\_\_\_ that provide additional voltage to the system under heavy operating loads .
- 3 All hybrid and electric vehicles use a \_\_\_\_\_ braking system, which captures the kinetic energy of the moving vehicle and converts it to electrical energy and is sent to the high-voltage battery pack.
- 6 Make sure the high-voltage system has been properly depowered before removing the \_\_\_\_\_ for service.
- 7 The \_\_\_\_\_ brakes on many hybrid and electric vehicles are often found to be stuck or not functioning correctly because the brakes are not doing much work and can rust.
- 9 Many customers love their hybrid and electric vehicle; however, \_\_\_\_\_ maintenance is frequently overlooked because it is different from a vehicle with just an internal combustion engine (ICE).
- 10 \_\_\_\_\_ inflation pressure increases rolling resistance and reduces load-carrying capacity and tire life.