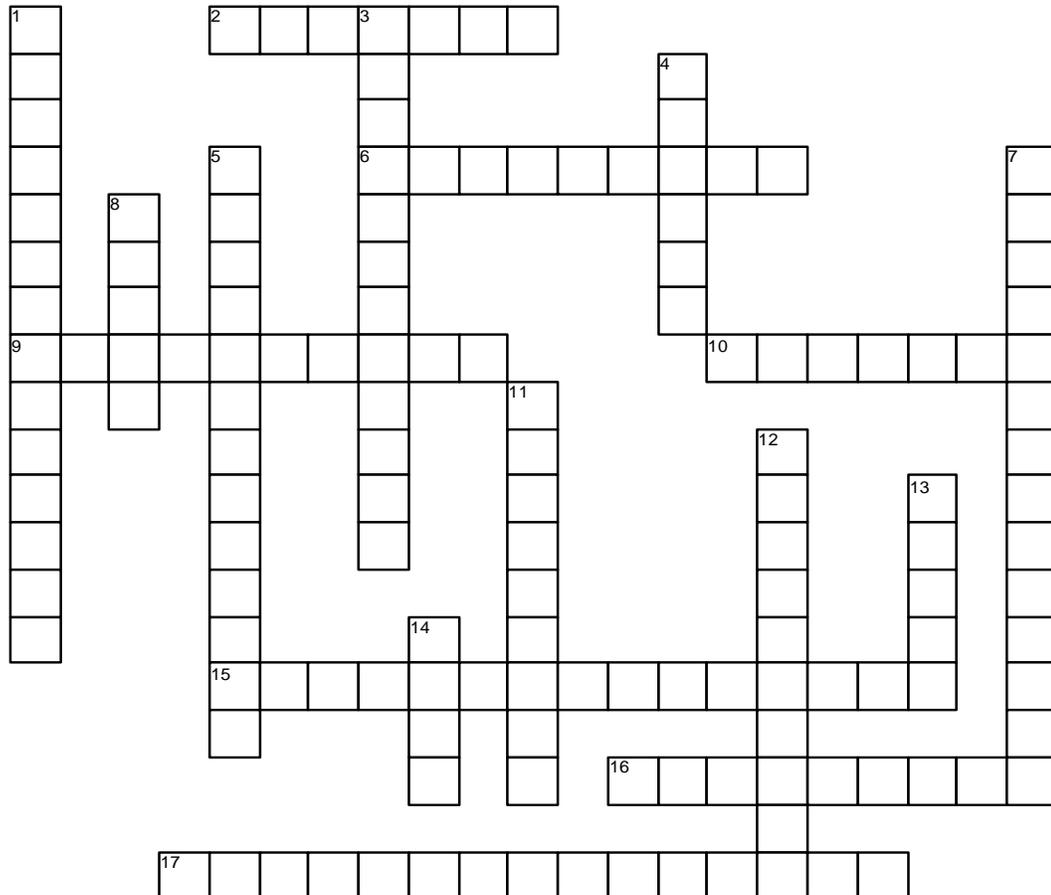


Vibration And Noise Diagnosis And Correction

Chapter 17



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ACROSS

- 2 The _____ circumference of a tire is usually shorter than the total circumference due to the contact patch.
- 6 The number of times a complete motion cycle takes place during a period of one second is called _____ and is measured in hertz.
- 9 A vibration during braking usually indicates ____-____-____ brake drums, warped disc brake rotors, or other braking system problems.
- 10 If the driveshaft is within runout specification and a vibration still exists, the _____ of the shaft should be checked and corrected as necessary.
- 15 If runout exceeds 0.030 inch, remove the driveshaft from the rear end and reindex the driveshaft onto the _____ _____ at 180 degrees from its original location.
- 16 Vibration can be measured using a reed tachometer or an electronic _____ analyzer (EVA).
- 17 _____ _____ range of vibration may be described as a shake, oscillation, or shimmy.

DOWN

- 1 _____ _____ is the number of vibrations created in one revolution of a component.
- 3 _____ range of vibration can be seen and felt in the steering wheel, seats, mirrors, and other components.
- 4 A technician can check to see if the driveshaft is bent by performing a driveshaft _____ test using a dial indicator.
- 5 _____-_____ vibrations are commonly caused by a fault of the clutch, torque converter, or transmission main shaft that rotates at engine speed.
- 7 Dampening weights are fastened to engines or transmissions in an effort to minimize _____, _____, and harshness called (NVH).
- 8 Frequency is measured in _____.
- 11 Incorrect _____ angles may be caused by worn, damaged, or improperly installed U-joints.
- 12 The _____-up test is used to determine if the source of the vibration is engine related.
- 13 The proper way to repair a noise is to repair the _____.
- 14 Always inspect an exhaust system when _____.