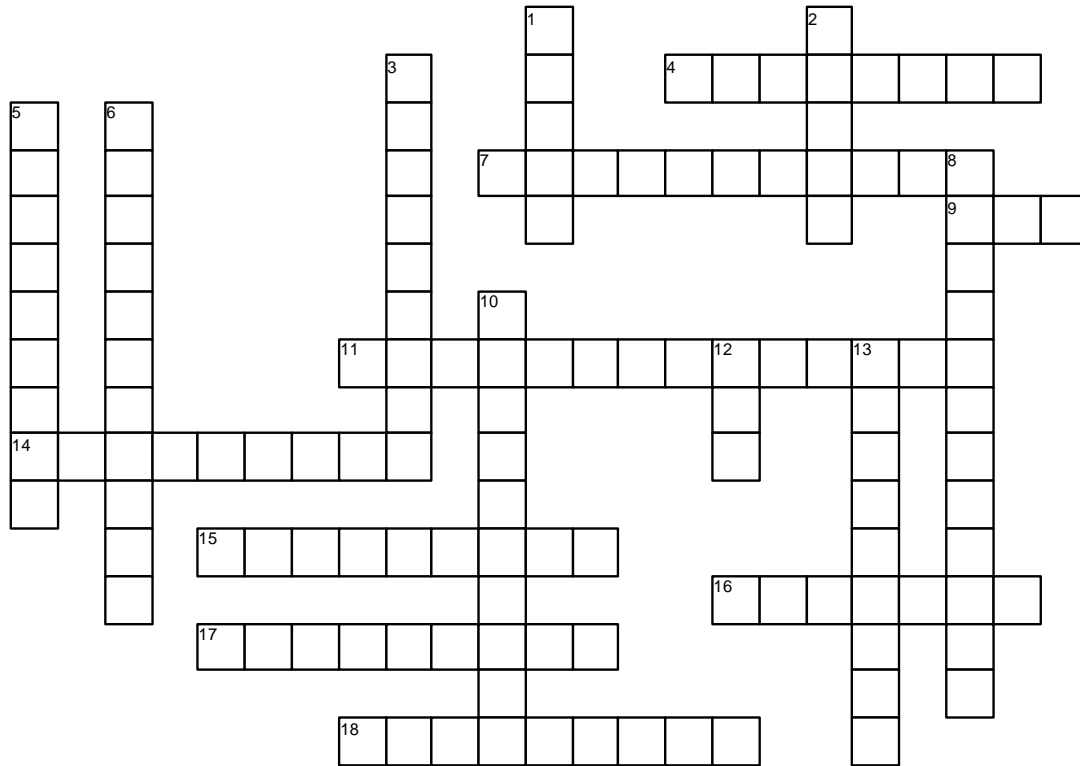


Vibration And Noise Diagnosis And Correction

Chapter 21



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ACROSS

- 4 If a new vehicle has a vibration or noise problem, then the most likely cause is an _____ or parts problem.
- 7 Terms used to describe low frequency vibrations include nibble, shake, _____, shimmy, and shudder.
- 9 Vibrations can be measured using a reed tachometer or an ____.
- 11 _____ is the number of vibrations created in one revolution of a component.
- 14 The _____ flange is splined to the rear axle pinion shaft and provides the mounting for the rear U-joint of the driveshaft.
- 15 Noise _____ is difficult because a noise is easily transmitted from its source to other places in the vehicle.
- 16 The circumference can be measured by using a tape measure around the tire. The _____ circumference of the tire is usually shorter due to the contact patch.
- 17 Wheels should never be installed using an _____ wrench.
- 18 The first thing a technician should do when given a vibration or noise problem to solve is to duplicate the condition by performing a _____.

DOWN

- 1 The proper way to repair a noise is to repair the _____.
- 2 Frequency is measured in _____.
- 3 _____ describes and oscillating motion around a reference position.
- 5 The number of times a complete motion cycle takes place during a period of one second is called _____.
- 6 Rubber supports can fail causing an exhaust system to be out of location. A technician can determine this by looking for _____.
- 8 The _____ - _____ test is used to determine if the source of the vibration is engine related.
- 10 Check to see that the driveshaft is not bent by performing a _____ runout test using a dial indicator.
- 12 Dampening weights are fastened to engines or transmissions in an effort to minimize noise, vibration, and harshness called _____.
- 13 Incorrect _____ angles can be caused by worn, damaged, or improperly installed U-joints.