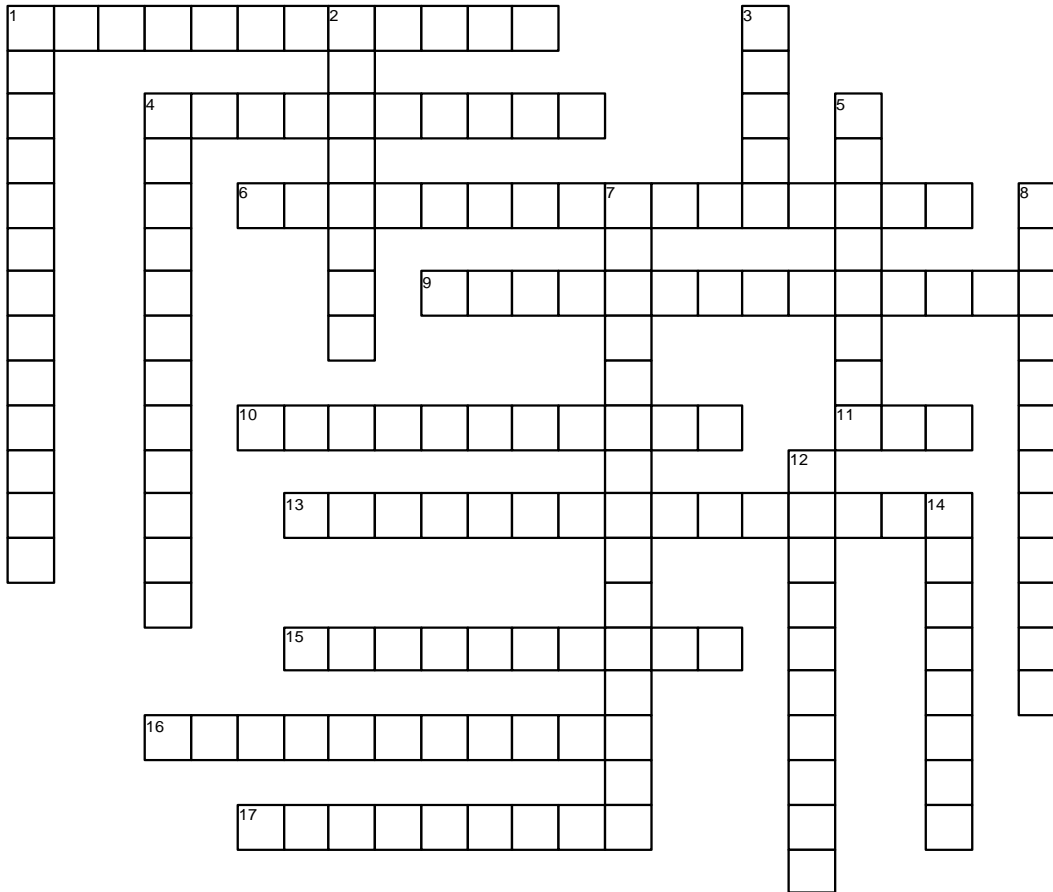


Valve And Seat Service

Chapter 27



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ACROSS

- 1 Rapid increase in temperature will give a _____ to the valve.
- 4 _____ occurs when the valve continues to stay open after the camshaft lobe has moved from under the lifter.
- 6 _____ is the tendency of a valve spring to vibrate.
- 9 A _____ is used to put the proper finish on a seat.
- 10 Automotive engine valves are of a _____ design.
- 11 Abbreviation for total indicator runoff.
- 13 One type of _____ uses small steel balls and slight ramps.
- 15 An _____ fits into a machined recess in the steel or aluminum cylinder head.
- 16 A _____ holds the valve against the seat.
- 17 The portion of the valve that seals against the _____ in the cylinder head is called the valve face.

DOWN

- 1 _____ locate themselves in the least worn section of the guide.
- 2 An alloy of nickel, chromium, and tungsten, _____ is nonmagnetic.
- 3 Another name for valve keepers are _____.
- 4 _____ springs have uneven spacing between the coils.
- 5 _____ are used on hard Stellite exhaust seat inserts.
- 7 _____ is the distance between the valve spring and the underside of the spring retainer.
- 8 _____ simply take the pressure of the valve to allow engine vibration to rotate the valve.
- 12 The valve is held in place and is positioned in the head by the _____.
- 14 The valve keepers secure the spring _____ to the stem of the valve.