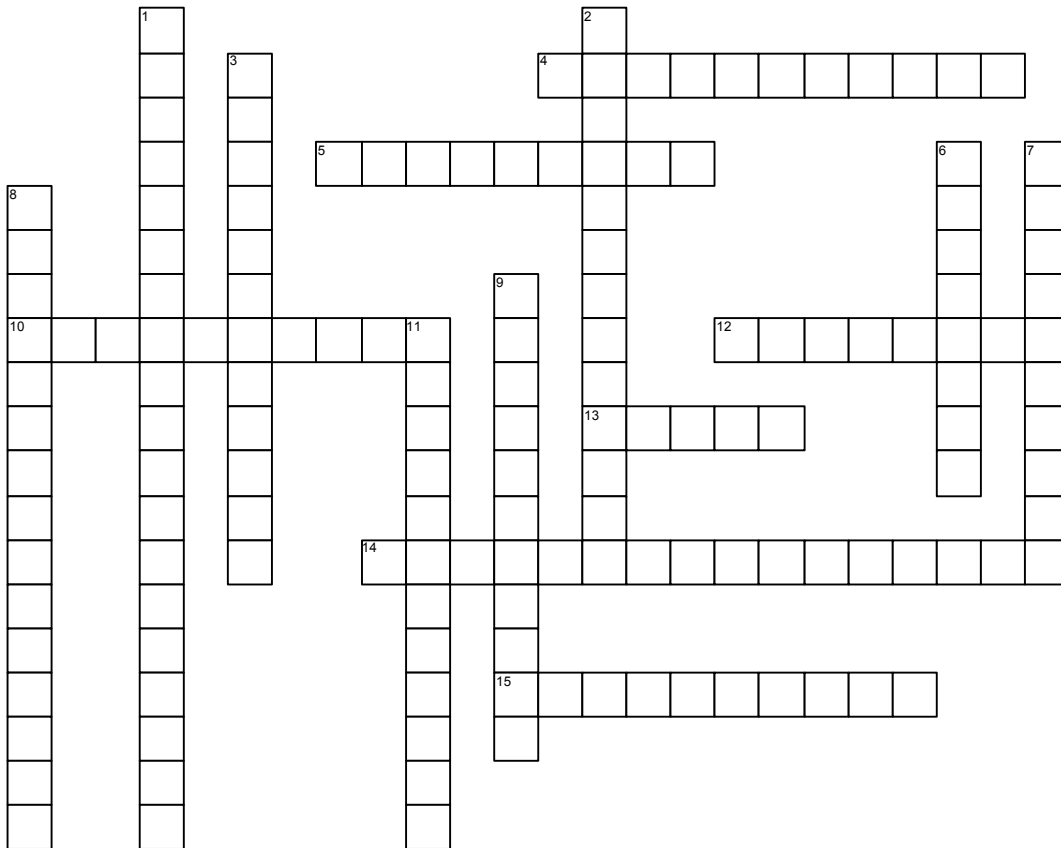


# Valve And Seat Service

## Chapter 31



<http://jameshaldeman.com>

### ACROSS

- 4 A \_\_\_\_\_ holds the valve against the seat.
- 5 The portion of the valve that seals against the \_\_\_\_\_ in the cylinder head is called the valve face.
- 10 An \_\_\_\_\_ fits into a machined recess in the steel or aluminum cylinder head.
- 12 An alloy of nickel, chromium, and tungsten, \_\_\_\_\_ is nonmagnetic.
- 13 Another name for valve keepers are \_\_\_\_\_.
- 14 \_\_\_\_\_ is the tendency of a valve spring to vibrate.
- 15 \_\_\_\_\_ occurs when the valve continues to stay open after the camshaft lobe has moved from under the lifter.

### DOWN

- 1 \_\_\_\_\_ have uneven spacing between the coils.
- 2 \_\_\_\_\_ locate themselves in the least worn section of the guide.
- 3 \_\_\_\_\_ simply take the pressure off the valve to allow engine vibration to rotate the valve.
- 6 The valve keepers secure the spring \_\_\_\_\_ to the stem of the valve.
- 7 The valve is held in place and is positioned in the head by the \_\_\_\_\_.
- 8 One type of \_\_\_\_\_ uses small steel balls and slight ramps.
- 9 Automotive engine valves are of a \_\_\_\_\_ design. □
- 11 Rapid increase in temperature will give a \_\_\_\_\_ to the valve.