Valve And Seat Service
Chapter 31

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.