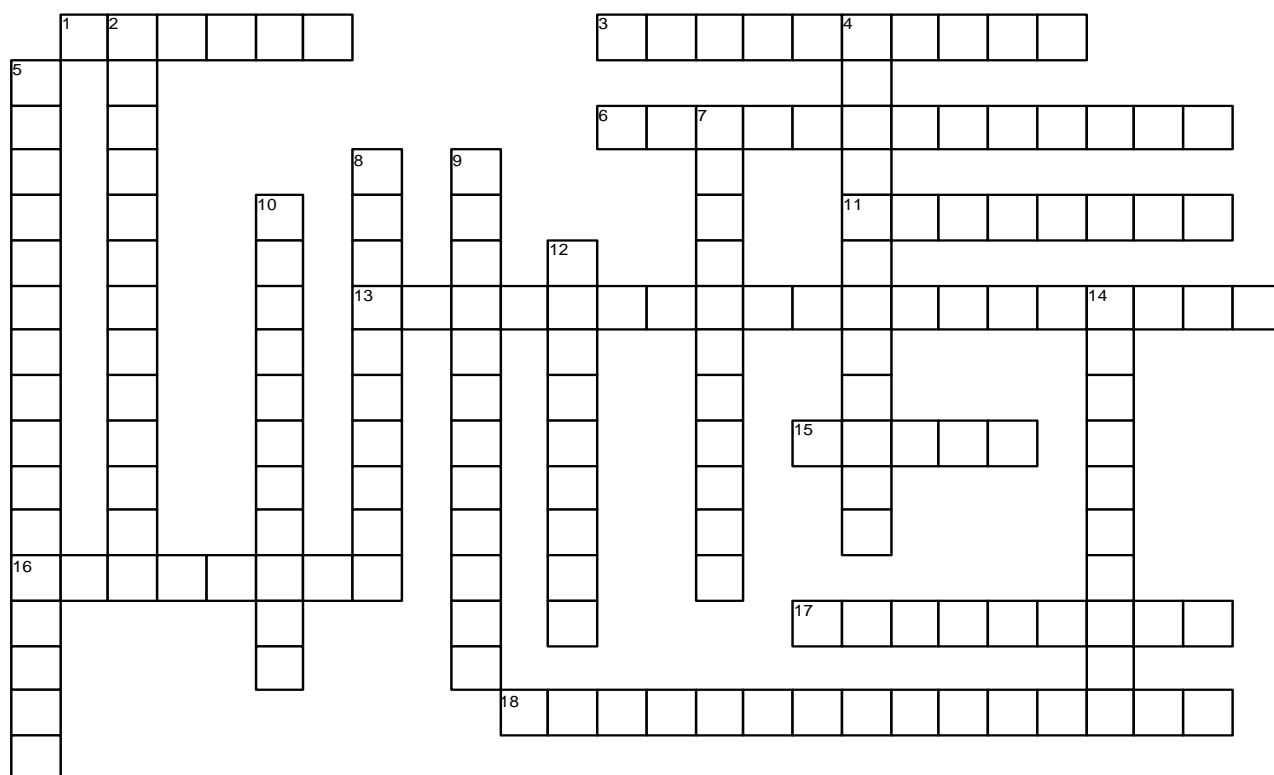


# Valve And Seat Service

## Chapter 31



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### ACROSS

- 1 \_\_\_\_\_ the valve tip is when the valve stem is lightly ground and chamfered which helps to ensure that the valve will rest in the collet of the valve grinder correctly.
- 3 \_\_\_\_\_ occurs when the valve continues to stay open after the camshaft lobe has moved from under the lifter.
- 6 \_\_\_\_\_ locate themselves in the least worn section of the guide.
- 11 The valve keepers secure the spring \_\_\_\_\_ to the stem of the valve.
- 13 \_\_\_\_\_ have uneven spacing between the coils.
- 15 Another name for valve keepers are \_\_\_\_\_.
- 16 An alloy of nickel, chromium, and tungsten, \_\_\_\_\_ is nonmagnetic.
- 17 The portion of the valve that seals against the \_\_\_\_\_ in the cylinder head is called the valve face.
- 18 One type of \_\_\_\_\_ uses small steel balls and slight ramps.

### DOWN

- 2 \_\_\_\_\_ is used to rapidly remove large amounts of seat metal.
- 4 \_\_\_\_\_ simply take the pressure off the valve to allow engine vibration to rotate the valve.
- 5 \_\_\_\_\_ is the tendency of a valve spring to vibrate.
- 7 Automotive engine valves are of a \_\_\_\_\_ design.
- 8 The valve is held in place and is positioned in the head by the \_\_\_\_\_.
- 9 Rapid increase in temperature will give a \_\_\_\_\_ to the valve.
- 10 A \_\_\_\_\_ holds the valve against the seat.
- 12 The portion of the valve that seals against the valve seat in the cylinder head is called the \_\_\_\_\_.
- 14 An \_\_\_\_\_ fits into a machined recess in the steel or aluminum cylinder head.