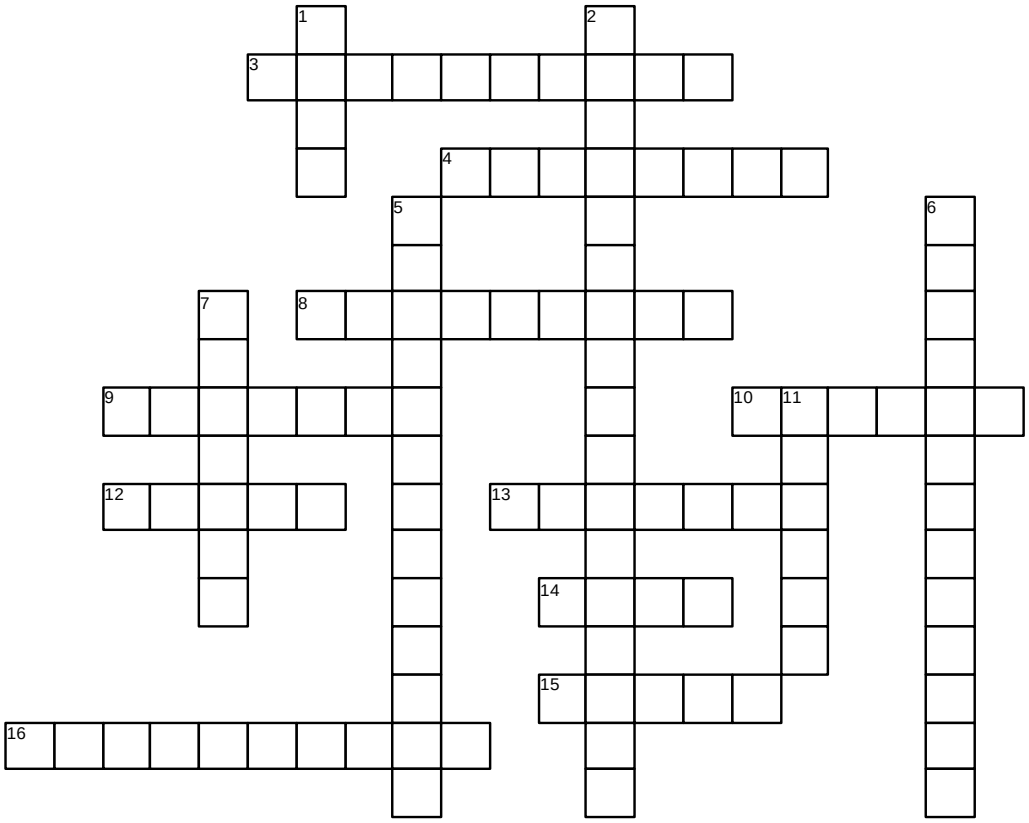
Cylinder Head Inspection

Chapter 27



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ACROSS

3 The valve guide supports the valve stem so that the valve face will remain perfectly centered, or _____, with the valve seat.

4 Another classification of surface finish, which is becoming obsolete, is called the ____-_____-square (RMS). The RMS is a slightly higher number and can be obtained by multiplying RA × 1.11.

8 Removable or pressed-in valve guides and _____ _____ inserts are always used in aluminum heads.

9 The head should be checked in five planes. Checking the cylinder head gasket surface with a precision straightedge in five planes checks the head for _____, distortion, bend, and twist.

10 _____ area is an area of the combustion chamber where the piston nearly contacts the cylinder head.

12 The head should be checked in five planes. Checking the cylinder head gasket surface with a precision straightedge in five planes checks the head for warpage, distortion, bend, and _____.

13 On some older engines, two cylinders share the same port because of the restricted space available. Shared ports are called _____ ports.

14 The head should be checked in five planes. Checking the cylinder head gasket surface with a precision straightedge in five planes checks the head for warpage, distortion, ____, and twist.

15 Removable or pressed-in _____ guides and valve seat inserts are always used in aluminum heads.

16 The head should be checked in five planes. Checking the cylinder head gasket surface with a precision straightedge in five planes checks the head for warpage, _____, bend, and twist.

DOWN

1 The part of the intake or exhaust system passage that is cast in the cylinder head is called a _____.

2 The usual method of expressing surface finish is by the _____ _____ roughness height (ra), that is, the average of the distances of all peaks and valleys from the mean (average) line.

5 _____ _____ is the number of degrees by which the crankshaft rotates when the valve is off the valve seat.

6 Some domestic vehicle manufacturers that have integral valve guides in their engines recommend reaming worn valve guides and installing new valves with _____ _____ (OS).

7 Modifications in the field, such as _____ or relieving, would result in restricting the flow of such a carefully designed port

11 The squish area can also be the _____ area where the air-fuel mixture is cooled by the cylinder head.