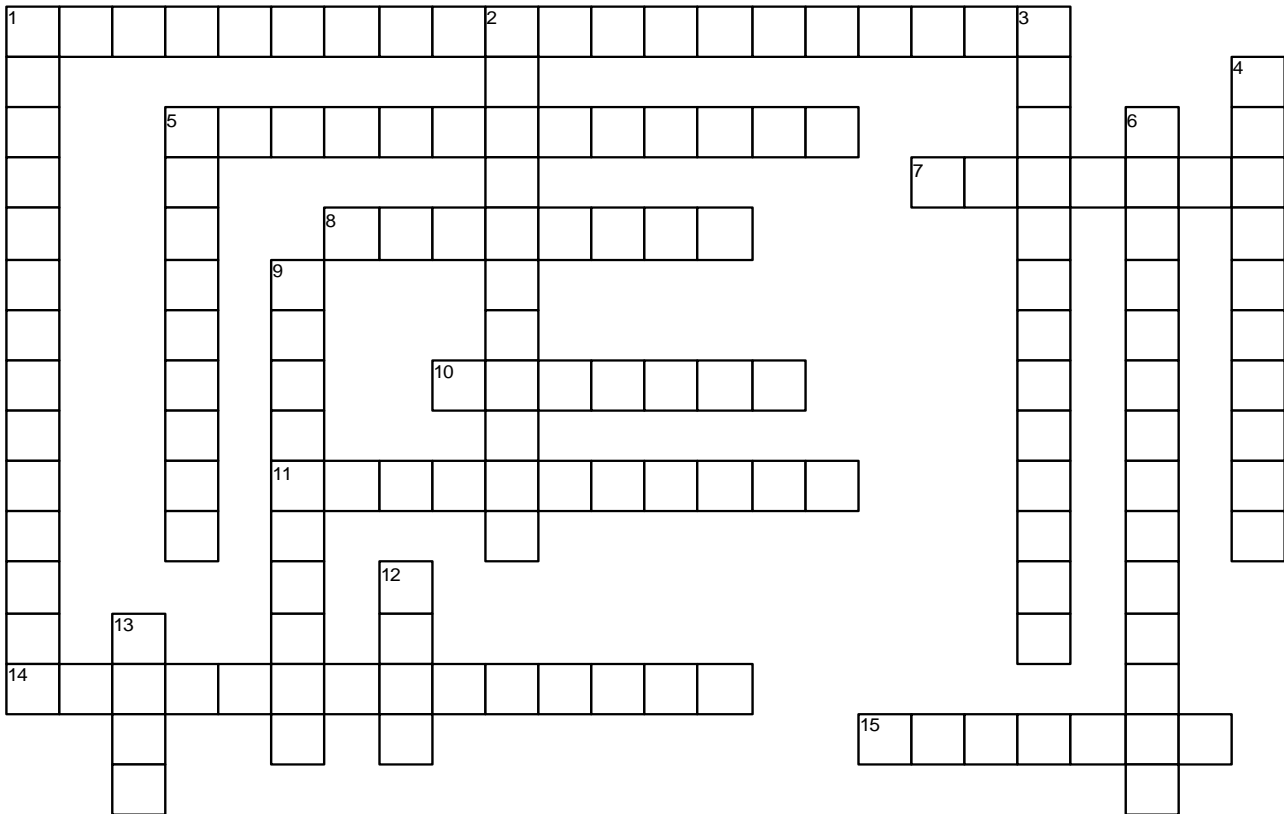


Cylinder Head And Valve Guide Service

Chapter 30



<http://jameshalderman.com>

ACROSS

- 1 The _____ - _____ design is an important design consideration for combustion chambers.
- 5 By placing the intake and the exhaust valves on the opposite side of the combustion chamber, an easy path from the intake port through the combustion chamber to the exhaust port is provided, this is called a _____ design.
- 7 Checking the cylinder head gasket surface in five planes checks the head for _____, distortion, bend, and twist.
- 8 The cylinder head surface that mates with the top deck of the block is often called the _____.
- 10 A _____ type of resurfacer uses metal-cutting tool bits fastened in a disc.
- 11 Shared ports are called _____.
- 14 Another classification of surface finish, which is becoming obsolete, is called the _____-_____.
- 15 Modifications in the field, such as _____ would result in restricting the flow of such a carefully designed port.

DOWN

- 1 The _____ type uses a large-diameter abrasive wheel.
- 2 Removable or pressed-in _____ and valve inserts are always used in aluminum heads.
- 3 Some domestic vehicle manufacturers that have integral valve guides in their engines recommend reaming worn valve guides and installing new valves with _____.
- 4 The squish area can also be the _____ where the air-fuel mixture is cooled by the cylinder head.
- 5 Another name for the cam bearing bore is the _____.
- 6 _____ means that the valve is kept close to the walls of the combustion chamber to help increase mixture turbulence.
- 9 The _____ is an area of the combustion chamber where the piston nearly contacts the cylinder head.
- 12 Checking the cylinder head gasket surface with a precision straightedge in five planes checks the head for warpage, distortion, _____, and twist.
- 13 The part of the intake or exhaust system passage that is cast in the cylinder head is called a _____.