

Gasoline Engine Operation, Parts And Specifications

Chapter 3

ACROSS

2 If engine combustion occurs within the power chamber, the engine is called an _____.

3 The valves are opened by a _____.

6 The pressure developed within the combustion chamber is applied to the head of a piston to produce a usable _____.

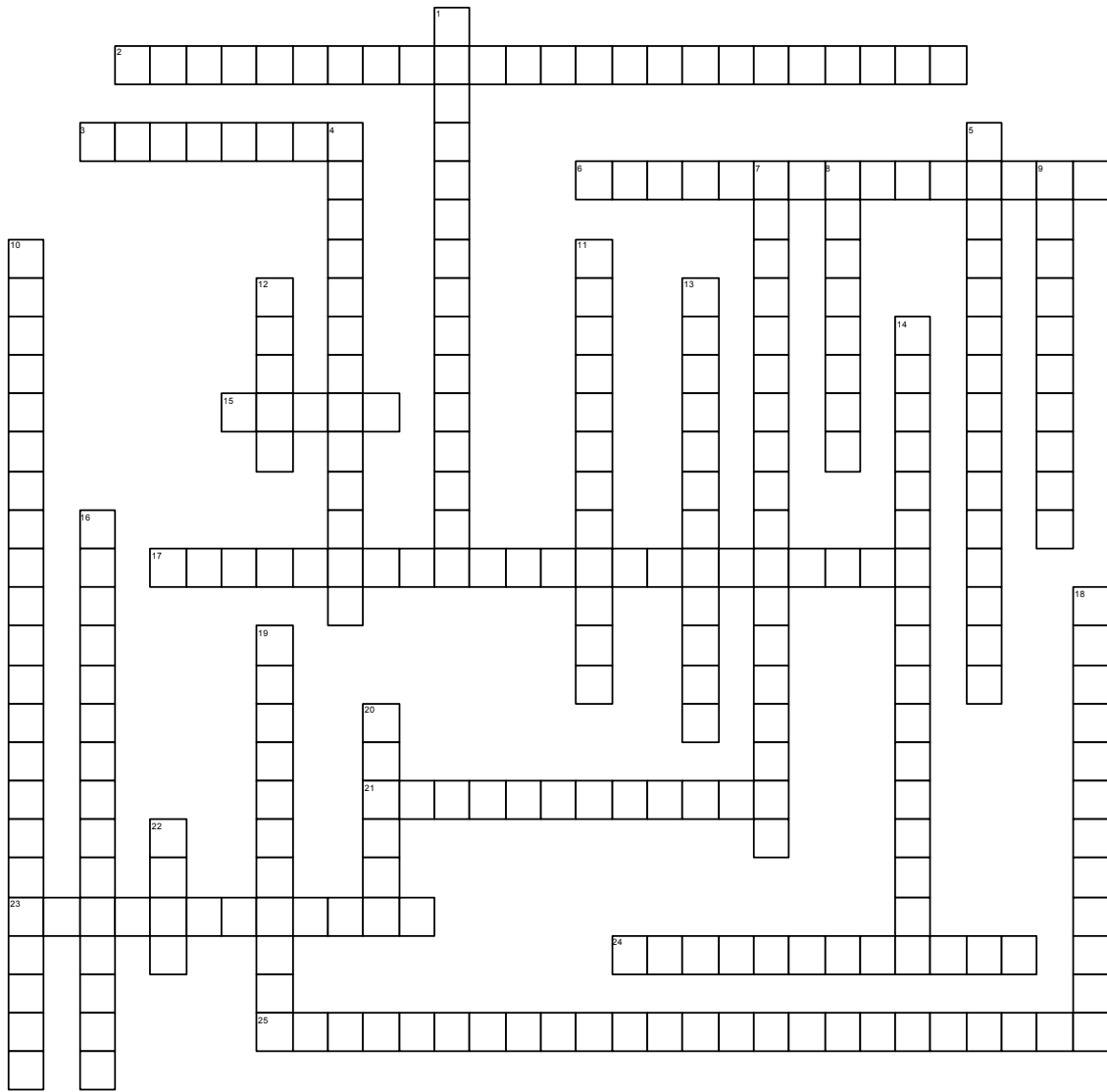
15 All automotive and truck engines are constructed using a solid frame, called a _____.

17 When two overhead camshafts are used, the design is called a _____.

21 A successful alternative engine design is the _____ design.

23 Some engines use a turbocharger or _____ to force the air-fuel mixture into the cylinder for even greater power.

24 A _____ is a one-way piston movement either from top to bottom or bottom to top of the cylinder. An _____ burns fuel outside of the engine itself, such as a steam engine.



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DOWN

1 The first _____ engine was developed by German engineer, Nicholas Otto, in 1876.

4 The crankshaft rotates 180 degrees from _____ to bottom dead center and the camshaft rotates 90

degrees.

5 The _____ of the engine is generally referred to as the front of the engine, where the accessory belts are used.

7 If atmospheric pressure is used to force the air-fuel mixture into the cylinders, the engine is called _____.

8 The piston moves up and down in the _____.

9 The piston is attached to the _____ with a connecting rod.

10 When one overhead camshaft is used, the design is called a _____ design.

11 The _____ opens, and the piston forces the residual burned gases out of it and into the exhaust manifold and exhaust system.

12 A _____ is a complete series of events that continually repeats.

13 The flywheel end of the

engine is the end to which the power is applied to drive the wheels and is called the _____.

14 Engines convert the chemical energy of the gasoline into heat within a power chamber that is called a _____.

16 Mechanical

force is converted into useful _____.

18 Another name for the rotary engine is the _____.

19 The _____ is open and the piston inside the cylinder travels downward, drawing a mixture of air and fuel into

the cylinder.

20 The _____ of an engine is the distance the piston travels from top dead center to bottom dead center.

22 The diameter of a cylinder is called the _____.