

Gasoline Engine Operation, Parts And Specifications

Chapter 10

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 _____.

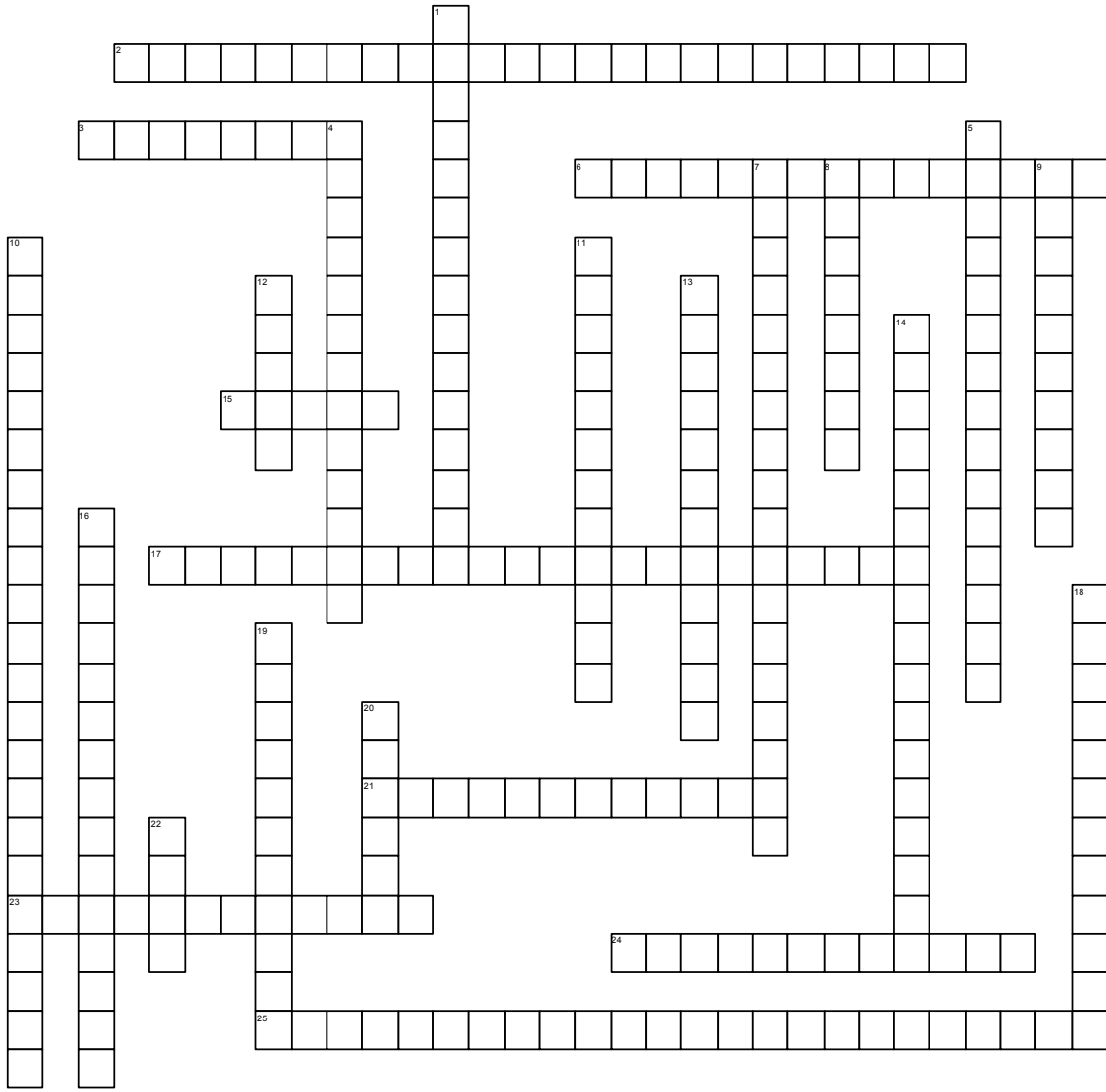
_____ design.

21 A successful alternative engine design is the _____.

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.

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

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 _____.