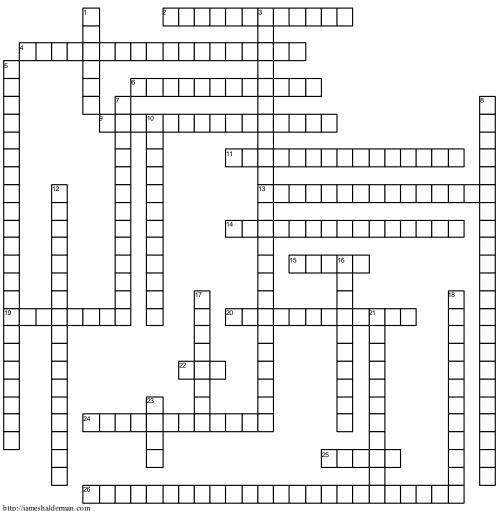
# Gasoline Engine Operation, Parts And Specifications Chapter 18



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### **ACROSS**

is called an \_

## 2 A successful alternative engine design is the 4 If atmospheric pressure is used to force the air-fuel mixture into the cylinders, the engine is called \_\_\_ 6 Some engines use a supercharger or \_\_\_\_\_\_ to force the air-fuel mixture into the cylinder for even greater power. **9** The \_\_\_\_\_ of the engine is generally referred to as the front of the engine, where the accessory belts are used. 11 Mechanical force is converted into useful \_\_\_\_\_ 13 The pressure developed within the combustion chamber is applied to the head of a piston to produce a usable \_\_\_\_\_ 14 The first \_\_\_\_\_ engine was developed by German engineer, Nickolaus Otto, in 1876. 15 All automotive and truck engines are constructed using a solid frame, called a \_\_\_\_\_. 19 The piston moves up and down in the \_\_\_ 20 Another name for the rotary engine is the \_\_\_\_ 22 Abbreviation for overhead valve. 24 A \_\_\_\_\_ is a one-way piston movement either from top to bottom or bottom to top of the cylinder. 25 A \_\_\_\_\_ is a complete series of events that continually repeats. 26 If engine combustion occurs within the power chamber, the engine

### DOWN

1	The of an engine is the distance the piston travels from top
	dead center to bottom dead center.
3	An burns fuel outside of the engine
	itself, such as a steam engine.
5	When one overhead camshaft is used, the design is called a
	design.
7	The crankshaft rotates 180 degrees fromto
	bottom dead center and the camshaft rotates 90 degrees.
8	When two overhead camshafts are used, the design is called a
	design.
10	The flywheel end of the engine is the end to which the power is
	applied to drive the wheels and is called the
12	Engines convert the chemical energy of the gasoline into heat
	within a power chamber that is called a
16	The piston is attached to the with a connecting rod.
	The valves are opened by a
18	The opens, and the piston forces the residual
	burned gases out of it and into the exhaust manifold and exhaust
	system.
21	The is open and the piston inside the cylinder
	travels downward, drawing a mixture of air and fuel into the
	cylinder.
23	The diameter of a cylinder is called the

