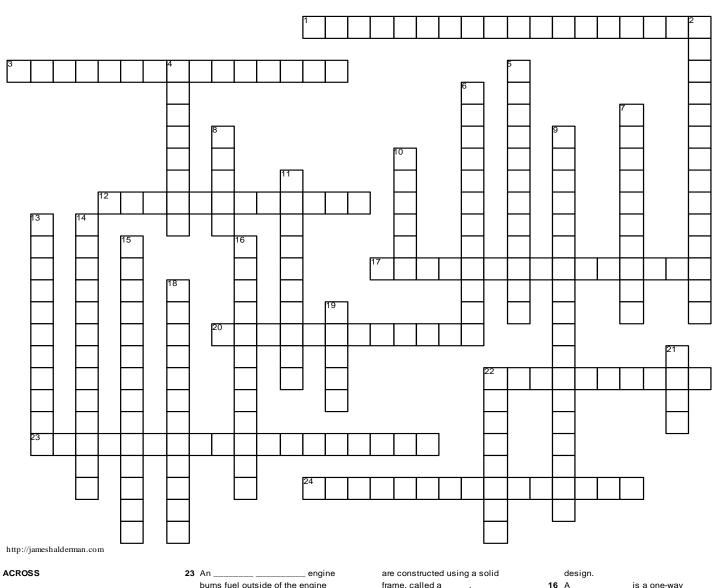
## **Gasoline Engine Operation, Parts And Specifications**

Chapter 9



force the air-fuel mixture into the cylinders, the engine is called of the engine is generally referred to as the front of the engine, where the accessory belts are used.

1 If atmospheric pressure is used to

- 12 Some engines use a turbocharger or \_\_\_\_\_ to force the airfuel mixture into the cylinder for even greater power.
- 17 The pressure developed within the combustion chamber is applied to the head of a piston to produce a usable
- 20 A successful alternative engine design is the
- 22 Engines convert the chemical energy of the gasoline into heat within a power chamber that is

burns fuel outside of the engine itself, such as a steam engine. 24 Mechanical force is converted into useful

## DOWN

- 2 When two overhead camshafts are used, the design is called a camshaft 4 The piston moves up and down in
- the 5 Another name for the rotary engine is the \_\_\_
- 6 The opens, and the piston forces the residual burned gases out of it and into the exhaust manifold and exhaust system.
- 7 The first \_ cycle engine was developed by German engineer, Nickolaus Otto, in 1876.
- 8 All automotive and truck engines
- 9 If engine combustion occurs within the power chamber, the engine is called an \_\_\_\_ engine. 10 The \_\_\_ of an engine is the distance the piston travels from top dead center to bottom dead center. 11 The piston is attached to the \_ with a connecting rod. 13 The is open and the piston inside the cylinder travels downward, drawing a mixture of air and fuel into the
- cylinder. 14 The crankshaft rotates 180 degrees from bottom dead center and the camshaft rotates 90 degrees.
- 15 When one overhead camshaft is used, the design is called a

- is a one-way piston movement either from top to bottom or bottom to top of the cylinder.
- 18 The flywheel end of the engine is the end to which the power is applied to drive the wheels and is
- 19 A \_\_\_\_ is a complete series of events that continually repeats.
- 21 The diameter of a cylinder is called the \_
- 22 The valves are opened by a

