

Each cylinder in a four-cycle engine has four separate strokes:

1st stroke **intake** -- Piston falls sucking air/fuel mixture through open intake valve into the combustion chamber.

2nd stroke **compression** -- Piston rises, compressing air/fuel mixture with both valves closed.

3rd stroke **power** -- Piston falls with both valves closed.

4th stroke **exhaust** -- Piston rises pushing residue out through the open exhaust valve.

intake valve open  
exhaust valve closed



**intake**

both valves  
closed



**compression**

both valves  
closed



**power**

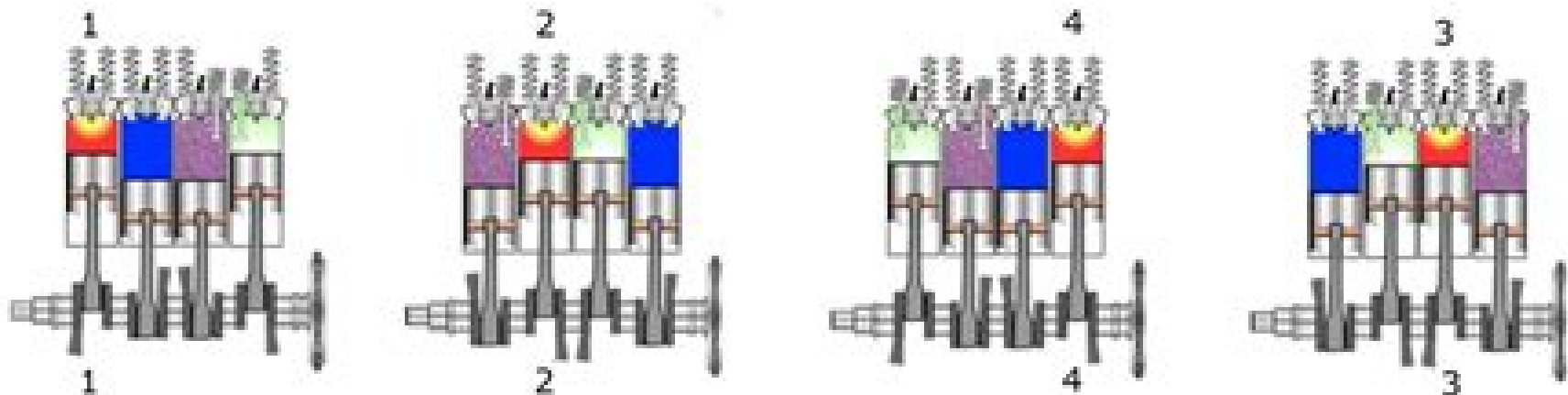
exhaust valve open  
intake valve closed



**exhaust**

**1-2-4-3 Firing Order** of the four cylinders in a large Kaw 4-cycle engine

(Note that each individual cylinder progresses through its own four strokes.)



# Firing Order Diagram Problem

**William Ker Wilson**



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**Principles and Problems of Aircraft Engines** Minor M. Farleigh,1931     *Mechanical Vibrations* J. P. Den Hartog,2013-02-28 This classic text combines the scholarly insights of its distinguished author with the practical problem solving orientation of an experienced industrial engineer Abundant examples and figures plus 233 problems and answers 1956 edition     **Practical Solution of Torsional Vibration Problems** William Ker Wilson,1950     **The Gas Engine** ,1919     *Mechanics of Machinery: Kinematics and dynamics* Robert Culbertson Hays Heck,1925     Practical solution of torsional vibration problems, with examples from ... William Ker Wilson,1941     *Mechanics of Machinery* Robert Culbertson Hays Heck,1925     Oil Field Engineering ,1919     The Motor Boat Francis P. Prial,1917     *Gas Engine* ,1919

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