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### **Mechanical engineering: Four stroke petrol engine**

4 Stroke Petrol Engine  
Mechanical Four stroke  
spark ignition engine is  
also known as the  
petrol engine and is  
widely used in bikes  
and cars as the power  
unit. It converts the  
chemical energy of fuel  
into mechanical energy  
by the piston. By  
knowing the working of  
this engine we can able  
to find out why our  
vehicle is not working  
properly. How does a  
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petrol pump or  
mechanical petrol  
pump sucked the fuel  
from the fuel tank via a  
fuel filter as shown in  
figure then the fuel  
through the fuel lines  
goes to the carburetor  
where air+fuel mixed  
with proper ratio and  
enters ... What is a 4-  
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engines. 1 = Intake, 2 = Compression, 3 = Power, 4 = Exhaust.The right blue side is the intake port and the left brown side is the exhaust port. The cylinder wall is a thin sleeve surrounding the piston head which creates a space for the combustion of fuel and the genesis of mechanical energy.Mechanical engineering: Four stroke petrol engine4 stroke petrol or diesel engine has higher torque at lower rpm as compared to 2 stroke engine. More fuel efficient than 2 stroke engine. It creates less pollution as no oil is burned during combustion. This engine lasts longer than 2 stroke engine as 2 stroke engines are designed for high rpm and at high rpm

engines wears at faster rate hence ...Four Stroke engine | Working, Application, Advantages and ...Concept of Working of Four Stroke Spark Ignition (Petrol) and Compression Ignition (Diesel) engines with its applications. Advantage and Disadvantages of Four Stroke engines. In our previous articles, we have learnt about engine types and its main parts along with terminology used in engine .Four Stroke Engine: Main Parts, Principle, Working ...The four-stroke engine is the most common types of internal combustion engines and is used in various automobiles (that specifically use gasoline as fuel) like cars, trucks, and some motorbikes (many

motorbikes use a two stroke engine).A four stroke engine delivers one power stroke for every two cycles of the piston (or four piston strokes). There is an animation to the right (Figure 1) of a ...Four stroke engine - Energy EducationFour-Stroke Diesel Engine (4S-CI): The operation and construction of a four-stroke diesel engine (CI) is similar to that of a four-stroke petrol engine (SI), but CI engines operate at higher compression ratio (11-22) as compared to SI engines. In case of a diesel engine, a fuel injector or fuel atomizer is used instead of a spark plug.Four-Stroke SI and Diesel Engines | Mechanical EngineeringPankaj Mishra is a blogger by

passion and Mechanical Engineer by profession. He has completed his B.Tech degree in mechanical engineering in the year 2015. ... valve timing diagram of 2 stroke petrol engine; valve timing diagram of 2 stroke petrol engine; valve timing diagram of 2 stroke petrol engine; valve timing diagram of 4 stroke petrol engine ...The working of 4 Stroke petrol(SI) engine was explained below. 1. Suction stroke: It starts when the piston is at the Top Dead Centre (TDC) and about to move downwards. During suction stroke, the inlet valve is open and the exhaust valve is closed.Otto Cycle: Process, PV Diagram ... - Mechanical StudentsMini 4-Stroke Series. In addition to

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about to move downwards. During suction stroke inlet valve is open and exhaust valve is closed. Due to low pressure created by the motion of the piston towards bottom dead center, the charge consisting of fresh air mixed with the fuel is drawn into cylinder. At the end of suction stroke the inlet

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petrol pump or mechanical petrol pump sucked the fuel from the fuel tank via a fuel filter as shown in figure then the fuel through the fuel lines goes to the carburetor where air+fuel mixed with proper ratio and enters ...

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