

Automotive technology chapter review

answer

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In which engine the cylinders are arranged side by side in a single row? In an in-line engine, as the name implies, the cylinders are arranged in a row, one behind the other, or horizontally, side by side. With few exceptions, in-line engines are limited to five or fewer cylinders.

What transfers the energy of combustion to the connecting rod? The piston transfers the pressure of combustion to the connecting rod and crankshaft. It must also hold the piston rings and piston pin while operating in the cylinder. Pistons,(Figure 3-12) are normally cast or forged from an aluminum alloy.

What is automotive technology in school? An automotive technology degree prepares students for a variety of roles in the automotive industry. These programs teach skills for inspections, maintenance, repairs and other essential automotive tasks. Students graduate with the necessary mechanical and technological knowledge to succeed in many industry positions.

What are the functions of automotive technology? Automotive technology is the cornerstone of vehicle innovation, focusing on the development, integration, and maintenance of complex systems that make modern transportation possible. This field is all about embracing efficiency, safety, and connectivity to meet the demands of today's drivers and industry standards.

Which engine places all of the cylinders in a single row _____? Inline (or "straight") engines have all their cylinders lined up in a row, which means they tend to be longer than the V configuration. For this reason, inline engines are usually found in 3, 4, 5, and 6-cylinder variations, as 8 cylinders in a row would be too long

to fit in most engine bays.

Why are 4 cylinders inline? The inline-four layout is a mechanically simple engine. It has a natural basic engine balance. It is smoother than one, two, and three cylinder engines. This makes it popular for economy cars.

Which part of steam engine connect the piston rod with connecting rod? Cotter's joint is widely used to connect the piston rod and crosshead of a steam engine, as a joint between the piston rod crosshead, and the tailer pump rod, foundation bolt, etc.

Which part is used to connect the piston and connecting rod in engine? Gudgeon pin: The gudgeon pin, also known as a wrist pin or piston pin, is a small cylindrical component attached to the piston and extends into the small end of the connecting rod. The gudgeon pin allows the connecting rod to pivot and rotate relative to the piston as the crankshaft rotates.

What is connected to the piston with the connecting rod?

What is cats in automotive? A catalytic converter is an exhaust emission control device which converts toxic gases and pollutants in exhaust gas from an internal combustion engine into less-toxic pollutants by catalyzing a redox reaction.

What's the difference between a mechanic and a technician? A key difference between mechanics and technicians is that mechanics specialize in more hands-on work, like changing oil and brake pads. Automotive technicians do this as well, but they also deal more with electrical diagnosis and identification of drivability complaints.

Can I buy a car in tech school? You could buy a vehicle prior to joining but the entire time you are in basic training it will be sitting at home not being used! You could wait a few months until you are out of basic training and your technical school and see where your first duty station is going to be!

What is the main function of electrical and electronics in automobile? Functionality: To produce, distribute, and handle the electrical energy needed to regulate numerous vehicle operations is the main function of vehicle electrical systems. These systems allow a huge range of conveniences and requirements from

charging mobile devices to starting the engine.

What is the function of an ECU in a vehicle system? Fundamentally, the engine ECU controls the injection of the fuel and, in petrol engines, the timing of the spark to ignite it. It determines the position of the engine's internals using a Crankshaft Position Sensor so that the injectors and ignition system are activated at precisely the correct time.

What is a de engine?

What is a 4 cylinder engine called? In most 4-cylinder engines, the pistons form a straight line, vertical configuration, also known as an inline-4. A flat-4, or horizontally opposed 4-cylinder engine, is another but less common configuration. This type of engine is also called a “boxer” engine.

What type of ignition do gasoline engines use? A gasoline car typically uses a spark-ignited internal combustion engine, rather than the compression-ignited systems used in diesel vehicles. In a spark-ignited system, the fuel is injected into the combustion chamber and combined with air. The air/fuel mixture is ignited by a spark from the spark plug.

What is the function of a camshaft? Camshafts are integral components of internal combustion engines, responsible for controlling the opening and closing of the engine's intake and exhaust valves. As the camshaft rotates, its lobes push against the valves, allowing the intake of air and fuel and the expulsion of exhaust gases.

What does V stand for in V8? "V" engines Some engines have cylinders arranged in a single row. Other engines use two rows of opposing cylinders, connected in a 'V' like shape. V6 and V8 engines use this configuration. The cylinders in a V-style engine are mounted on their side with two rows facing outwards.

What is cc in an engine? The size – or cubic capacity – of a car's engine is measured in cubic centimetres (cc). It refers to the amount of air and fuel that can be pushed through the cylinders in the engine. In most cases, the general rule of thumb is that the bigger the capacity, the more powerful it tends to be.

What is a F6 engine? A flat-six engine, also known as a horizontally opposed-six, is a six-cylinder piston engine with three cylinders on each side of a central crankshaft. The most common type of flat-six engine is the boxer-six engine, where each pair of opposed cylinders moves inwards and outwards at the same time.

What is a single row of cylinders in a car engine called? The straight engine (also called inline engine) is a configuration of multi-cylinder piston engine where all of the cylinders are arranged in a single row, rather than radially or in two or more cylinder banks.

What is an engine design where the cylinders are in a row? The inline engine configuration involves aligning cylinders in a single row, optimizing space efficiency. This design choice promotes a smooth and balanced power delivery, contributing to enhanced fuel efficiency.

What is the arrangement of cylinders in an engine? We often describe engines by the number and arrangement of their cylinders. With few exceptions, automakers arrange an engine's cylinders in one of three ways: in a line (e.g., an inline-four or straight-six), in a V (e.g., a V6 or V8), or horizontally opposed (e.g., a flat-four or six-cylinder boxer).

What is the cylinder arrangement of the in-line engine? cylinder arrangement
The in-line engine has a single row of cylinders extending vertically upward from the crankcase and aligned with the crankshaft main bearings. The V type has two rows of cylinders, usually forming an angle of 60° or 90° between the two banks.



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