

Introduction

The engine is the power plant of a vehicle. Automotive engines have gone through tremendous changes since the automobile was first introduced in the 1890s, but all combustion engines still have three requirements that must be met to do their job of providing power – air, fuel, and ignition. The mixture of air and fuel must be compressed inside the engine in order to make it highly combustible and get the most out of the energy contained in the fuel mixture. Since the mixture is ignited within the engine, automobile power plants are called internal combustion engines. Most can be further classified as reciprocating piston engines, (some pistons move up and down within cylinders to provide power). This up-and-down motion is converted into turning motion by the crankshaft.

Some of the main engine components

This course will provide an introduction to automotive engines and engine repair. Subjects covered will include:

- Major engine components
- Engine classifications
- The four stroke cycle and other engine design operations
- Engine construction
- General engine mechanical diagnosis
- Engine removal and installation
- Cylinder head and valve train diagnosis and repair
- Engine block assembly diagnosis and repair

Unit 1 - Basic Engine Parts and Operation

Unit Objective:

After completion of this unit, students should be able to identify internal combustion engine components and their methods of operation.

Specific Objectives:

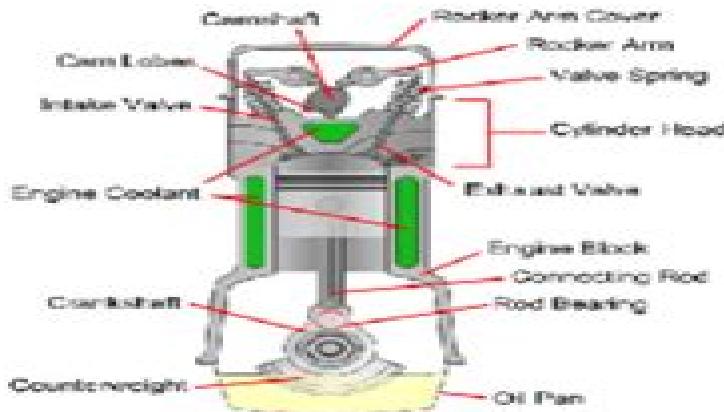
- Identify engine design associated terms and definitions
- Identify internal combustion engine components
- Understand and be able to explain basic internal combustion engine operation
- Identify common internal combustion engine design classifications

A small engine, such as one found in a lawn mower, usually contains only one cylinder and piston. Automotive engines use a number of cylinders to produce sufficient power to drive the wheels, but operate much like a small engine in many ways. Let's look at one cylinder of an engine to see how the main parts work together.

Engine Block

The block, highlighted in light grey, is a heavy metal casting, usually cast iron or aluminum, which holds the lower parts of the engine together and in place. The block assembly consists of the block, crankshaft, main bearings and caps, connecting rods, pistons, and other components.

and is referred to as the bottom end. The block may also house the camshaft, oil pump, and other parts. The block is machined with passages for oil circulation called oil galleries (not shown) and for coolant circulation called water jackets.



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Table of Contents Car Engine Repair Study Guide

1. Understanding the eBook Car Engine Repair Study Guide
 - The Rise of Digital Reading Car Engine Repair Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Car Engine Repair Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Car Engine Repair Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Car Engine Repair Study Guide
 - Personalized Recommendations
 - Car Engine Repair Study Guide User Reviews and Ratings
 - Car Engine Repair Study Guide and Bestseller Lists

5. Accessing Car Engine Repair Study Guide Free and Paid eBooks
 - Car Engine Repair Study Guide Public Domain eBooks
 - Car Engine Repair Study Guide eBook Subscription Services
 - Car Engine Repair Study Guide Budget-Friendly Options
6. Navigating Car Engine Repair Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - Car Engine Repair Study Guide Compatibility with Devices
 - Car Engine Repair Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Car Engine Repair Study Guide
 - Highlighting and Note-Taking Car Engine Repair Study Guide
 - Interactive Elements Car Engine Repair Study Guide
8. Staying Engaged with Car Engine Repair Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Car Engine Repair Study Guide
9. Balancing eBooks and Physical Books Car Engine Repair Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Car Engine Repair Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Car Engine Repair Study Guide
 - Setting Reading Goals Car Engine Repair Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Car Engine Repair Study Guide
 - Fact-Checking eBook Content of Car Engine Repair Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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