

### PRINCIPLES OF OPERATION

The diesel engine is an internal combustion power unit, in which the heat of fuel is converted into work in the cylinder of the engine.

In the diesel engine, air alone is compressed in the cylinder; then, after the air has been compressed, a charge of fuel is sprayed into the cylinder and ignition is accomplished by the heat of compression.

#### The Two-Cycle Principle

In the two-cycle engine, intake and exhaust take place during part of the compression and power strokes respectively as shown in Fig. 1. In contrast, a four cycle engine requires four piston strokes to complete an operating cycle; thus, during one half of its operation, the four-cycle engine functions merely as an air pump.

A blower is provided to force air into the cylinders for expelling the exhaust gases and to supply the cylinders with fresh air for combustion. The cylinder wall contains a row of ports which are above the piston when it is at the bottom of its stroke. These ports admit the air from the blower into the cylinder as soon as the rim of the piston uncovers the ports as shown in Fig. 1 (scavenging).

The unidirectional flow of air toward the exhaust valves produces a scavenging effect, leaving the cylinders full of clean air when the piston again covers the inlet ports.

As the piston continues on the upward stroke, the exhaust valves close and the charge of fresh air is subjected to compression as shown in Fig. 1 (compression).

Shortly before the piston reaches its highest position, the required amount of fuel is sprayed into the combustion chamber by the unit fuel injector as shown in Fig. 1 (power). The intense heat generated during the high compression of the air ignites the fine fuel spray immediately. The combustion continues until the fuel injected has been burned.

The resulting pressure forces the piston downward on its power stroke. The exhaust valves are again opened when the piston is about half way down, allowing the burned gases to escape into the exhaust manifold as shown in Fig. 1 (exhaust). Shortly thereafter, the downward moving piston uncovers the inlet ports and the cylinder is again swept with clean scavenging air. This entire combustion cycle is completed in each cylinder for each revolution of the crankshaft, or, in other words, in two strokes; hence, it is a "two-stroke cycle".

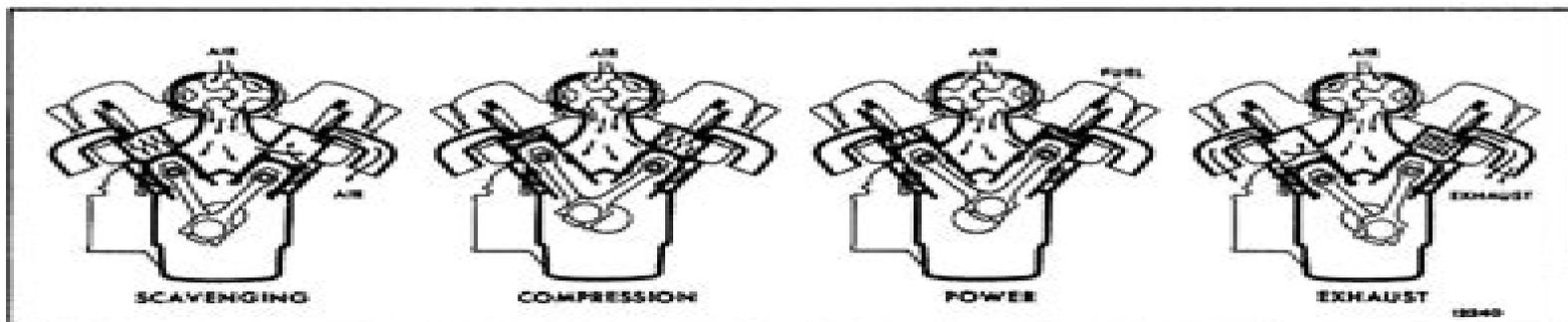


FIG. 1 - The Two-Stroke Cycle

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## **Table of Contents Free Detroit Diesel V71 Service Manual**

1. Understanding the eBook Free Detroit Diesel V71 Service Manual
  - The Rise of Digital Reading Free Detroit Diesel V71 Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Free Detroit Diesel V71 Service Manual
  - 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 Free Detroit Diesel V71 Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Free Detroit Diesel V71 Service Manual
  - Personalized Recommendations
  - Free Detroit Diesel V71 Service Manual User Reviews and Ratings
  - Free Detroit Diesel V71 Service Manual and Bestseller Lists
5. Accessing Free Detroit Diesel V71 Service Manual Free and Paid eBooks
  - Free Detroit Diesel V71 Service Manual Public Domain eBooks
  - Free Detroit Diesel V71 Service Manual eBook Subscription Services
  - Free Detroit Diesel V71 Service Manual Budget-Friendly Options

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  - ePub, PDF, MOBI, and More
  - Free Detroit Diesel V71 Service Manual Compatibility with Devices
  - Free Detroit Diesel V71 Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Free Detroit Diesel V71 Service Manual
  - Highlighting and Note-Taking Free Detroit Diesel V71 Service Manual
  - Interactive Elements Free Detroit Diesel V71 Service Manual
8. Staying Engaged with Free Detroit Diesel V71 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Free Detroit Diesel V71 Service Manual
9. Balancing eBooks and Physical Books Free Detroit Diesel V71 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Free Detroit Diesel V71 Service Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Free Detroit Diesel V71 Service Manual
  - Setting Reading Goals Free Detroit Diesel V71 Service Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Free Detroit Diesel V71 Service Manual
  - Fact-Checking eBook Content of Free Detroit Diesel V71 Service Manual
  - 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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