

# craftsman model 917 carburetor diagram

**craftsman model 917 carburetor diagram** is an essential reference for anyone looking to maintain, repair, or understand the carburetor system of Craftsman model 917 lawn tractors and equipment. This article thoroughly explores the components and layout of the carburetor, providing detailed insights into its structure and function. Understanding the carburetor diagram is crucial for troubleshooting engine performance issues, performing routine maintenance, and ensuring optimal fuel delivery. This guide covers the anatomy of the carburetor, common problems associated with it, and step-by-step instructions for disassembly and reassembly using the diagram as a reference. Whether you are a professional mechanic or a DIY enthusiast, having a clear comprehension of the Craftsman model 917 carburetor diagram will enhance your ability to service this equipment effectively. Below is a comprehensive overview of the main topics covered in this article.

- Overview of the Craftsman Model 917 Carburetor
- Detailed Components of the Carburetor
- Reading and Understanding the Carburetor Diagram
- Troubleshooting Common Carburetor Issues
- Maintenance and Repair Using the Diagram

## Overview of the Craftsman Model 917 Carburetor

The carburetor in the Craftsman model 917 is a vital component responsible for mixing air and fuel in the correct ratio to power the engine efficiently. It is designed to accommodate the specific engine model used in Craftsman lawn tractors, ensuring smooth operation and fuel economy. The carburetor's design impacts engine responsiveness, idle stability, and overall performance. A well-maintained carburetor also reduces emissions and prolongs the lifespan of the engine. The Craftsman model 917 carburetor diagram provides a visual representation of how all internal parts fit together and operate in harmony.

## Purpose and Function

The primary function of the carburetor is to atomize fuel and mix it with air in precise proportions before delivering it to the engine cylinder. This mixture must be consistent under varying engine loads and speeds. The Craftsman model 917 carburetor accomplishes this with components such as

jets, floats, needles, and throttle valves. Proper operation of these parts, as shown in the carburetor diagram, is essential for optimal engine function.

## Types of Carburetors Used in Model 917

Craftsman model 917 typically uses a float-type carburetor, which regulates fuel flow using a float chamber and needle valve. This design is common in small engines due to its simplicity and reliability. Some versions may include choke assemblies and accelerator pumps to aid in cold starting and acceleration. Understanding the exact type and configuration is easier with the help of the carburetor diagram.

## Detailed Components of the Carburetor

The Craftsman model 917 carburetor diagram breaks down the unit into its essential parts, each playing a specific role in fuel delivery and air mixture control. Familiarity with these components is critical for diagnostics and repair.

## Main Components Explained

- **Float Chamber:** Holds a reservoir of fuel and controls the fuel level using a float mechanism.
- **Needle Valve:** Regulates fuel entering the float chamber to maintain a constant fuel level.
- **Main Jet:** Controls the flow of fuel into the carburetor throat during high engine speeds.
- **Idle Jet:** Provides fuel at low engine speeds for smooth idling.
- **Throttle Valve:** Adjusts the amount of air-fuel mixture entering the engine, controlling speed and power.
- **Choke Valve:** Restricts air flow to enrich the mixture during cold starts.
- **Accelerator Pump:** Delivers extra fuel when the throttle is quickly opened to prevent hesitation.

## How Components Interact

The components shown in the craftsman model 917 carburetor diagram work together seamlessly. The float and needle valve maintain a steady fuel supply, the jets control fuel delivery based on engine speed, and the throttle and choke valves regulate air intake. The diagram illustrates the physical arrangement and connection points, enabling identification and understanding of the fuel pathway and air flow.

## Reading and Understanding the Carburetor Diagram

Interpreting the craftsman model 917 carburetor diagram requires attention to detail and knowledge of small engine carburetor function. The diagram typically includes exploded views, part numbers, and flow directions to aid users.

## Diagram Layout and Symbols

The diagram is presented with a clear layout showing the carburetor from multiple angles, highlighting internal components and their assembly sequence. Symbols often indicate the flow of fuel and air, adjusting mechanisms, and connection points for linkages and fuel lines. Understanding these symbols is essential for using the diagram effectively during repairs or rebuilds.

## Using the Diagram for Repairs

A craftsman model 917 carburetor diagram acts as a blueprint for disassembly and reassembly. By following the sequence shown, technicians can remove parts without damage and ensure proper positioning during reinstallation. The diagram also helps in identifying worn or missing components that need replacement, ensuring the carburetor functions as designed.

## Troubleshooting Common Carburetor Issues

Problems in the carburetor can lead to engine performance issues such as rough idle, poor acceleration, stalling, and hard starting. The craftsman model 917 carburetor diagram aids in diagnosing these problems by providing a visual guide to component locations and functions.

## Typical Symptoms and Causes

- **Engine Hesitation or Stalling:** Often caused by clogged jets or a malfunctioning accelerator pump.
- **Hard Starting:** May result from a stuck choke valve or incorrect float level.
- **Rough Idle:** Frequently due to dirt in the idle jet or improper throttle valve adjustment.
- **Excessive Fuel Consumption:** Can occur if the needle valve leaks or the float is set too high.

## Diagnosing with the Diagram

By referencing the craftsman model 917 carburetor diagram, technicians can systematically check each component related to the symptoms. For example, locating the main jet or float chamber in the diagram helps isolate the problem area for cleaning or adjustment. This targeted approach reduces guesswork and repair time.

## Maintenance and Repair Using the Diagram

Regular maintenance of the carburetor extends engine life and ensures consistent performance. The craftsman model 917 carburetor diagram is an invaluable tool for carrying out these tasks accurately.

## Routine Maintenance Procedures

1. Remove debris and clean the exterior of the carburetor to prevent contamination.
2. Use the diagram to disassemble the carburetor carefully, noting the position of each part.
3. Clean internal parts such as jets, float chamber, and needle valve with appropriate solvents.
4. Inspect components for wear or damage and replace as necessary using part numbers from the diagram.
5. Reassemble the carburetor following the diagram's sequence to ensure proper fit and function.

6. Adjust the float level and idle settings according to specifications provided in the diagram documentation.

## **Tips for Successful Repair**

- Always work in a clean, well-lit environment to avoid losing small parts.
- Keep the carburetor diagram accessible throughout the repair process for quick reference.
- Use manufacturer-recommended replacement parts for compatibility and durability.
- Test the engine after reassembly to confirm that the carburetor is functioning correctly.
- Document any adjustments made for future maintenance and troubleshooting.

## **Frequently Asked Questions**

### **Where can I find a detailed diagram of the Craftsman model 917 carburetor?**

You can find detailed diagrams of the Craftsman model 917 carburetor in the official Sears parts website, the owner's manual, or through online lawn mower repair forums and websites specializing in small engine parts.

### **What are the main components shown in the Craftsman model 917 carburetor diagram?**

The main components typically include the float bowl, throttle plate, choke plate, needle valve, jets, and linkages that control fuel and air flow within the carburetor.

### **How can a carburetor diagram help in repairing my Craftsman model 917 lawn mower?**

A carburetor diagram helps you identify and understand each part's location and function, making it easier to disassemble, clean, replace damaged parts, and correctly reassemble the carburetor.

## **Is there a difference between Craftsman model 917 carburetor diagrams for different engine types?**

Yes, the carburetor diagram may vary depending on the engine model and manufacturer. It's important to reference the diagram specific to your Craftsman 917 engine model for accurate repair guidance.

## **Can I use a universal carburetor diagram to fix my Craftsman model 917 carburetor?**

While a universal carburetor diagram might provide general insight, it's recommended to use a diagram specific to the Craftsman model 917 to ensure proper repair and avoid compatibility issues.

## **Additional Resources**

### *1. The Complete Guide to Craftsman Model 917 Carburetor Repair*

This book offers an in-depth look at the Craftsman Model 917 carburetor, providing detailed diagrams and step-by-step repair instructions. Ideal for both beginners and experienced mechanics, it covers troubleshooting common issues and performing routine maintenance. The clear illustrations help readers understand the carburetor's components and function.

### *2. Small Engine Carburetors: Diagrams and Troubleshooting for Craftsman Models*

Focusing on small engine carburetors, this guide includes extensive diagrams specific to Craftsman Model 917 and similar engines. It explains how carburetors work and guides users through diagnosing common fuel delivery problems. The book is a valuable resource for DIY enthusiasts looking to maintain or rebuild their carburetors.

### *3. Mastering Lawn Mower Engines: Craftsman 917 Carburetor Edition*

This manual offers comprehensive coverage of lawn mower engines, with a special emphasis on the Craftsman 917 carburetor system. Readers will find detailed diagrams, repair tips, and maintenance schedules tailored to keep their equipment running smoothly. It's perfect for homeowners and professionals alike.

### *4. Carburetor Diagrams and Repair Techniques for Craftsman Power Equipment*

Designed for those who work with Craftsman power tools, this book provides clear carburetor diagrams for the Model 917 and related models. It includes practical repair techniques and troubleshooting advice to help extend the life of your equipment. The book also explains how carburetor adjustments affect engine performance.

### *5. The Essential Craftsman Model 917 Engine Maintenance Handbook*

This handbook emphasizes the maintenance and repair of the Craftsman Model 917 engine, focusing heavily on the carburetor system. It contains detailed

diagrams, parts lists, and maintenance checklists to ensure optimal engine performance. The book is an excellent reference for those maintaining Craftsman outdoor power equipment.

#### *6. Repair and Rebuild: Craftsman 917 Carburetor Step-by-Step*

With a hands-on approach, this book walks readers through the complete process of repairing and rebuilding the Craftsman 917 carburetor. Detailed diagrams accompany each step, making complex repairs accessible to novices. The guide also covers common issues such as clogging, leaks, and improper fuel mixture.

#### *7. Understanding Small Engine Carburetors: Craftsman Model 917 Focus*

This educational resource delves into the principles of small engine carburetor operation, using the Craftsman Model 917 as a case study. It explains the function of each carburetor component with detailed diagrams and troubleshooting tips. The book is ideal for students and hobbyists interested in engine mechanics.

#### *8. DIY Craftsman 917 Carburetor Tune-Up and Adjustment Manual*

This manual provides practical advice for tuning and adjusting the Craftsman 917 carburetor to achieve peak engine performance. It includes detailed diagrams and easy-to-follow instructions on setting fuel and air mixtures. Perfect for DIY enthusiasts looking to optimize their equipment without professional help.

#### *9. Craftsman 917 Engine Overhaul and Carburetor Restoration*

Focusing on complete engine overhauls, this book highlights the importance of restoring the carburetor to factory specifications. It offers comprehensive diagrams and restoration techniques specific to the Craftsman 917 model. The guide helps readers bring their engines back to life through meticulous carburetor care.

## **Craftsman Model 917 Carburetor Diagram**

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