

# stihl ms390 parts diagram

stihl ms390 parts diagram is an essential resource for anyone looking to understand, maintain, or repair the Stihl MS390 chainsaw. This comprehensive guide provides detailed insights into the various components that make up this powerful piece of equipment. Whether you are a professional landscaper, a seasoned chainsaw user, or a DIY enthusiast, having access to a precise parts diagram ensures proper identification and replacement of parts. The Stihl MS390 parts diagram breaks down the chainsaw into its core assemblies, including the engine, clutch, chain brake, and more. Understanding these components and their arrangement can greatly enhance troubleshooting and maintenance efficiency. This article explores the key sections of the Stihl MS390 parts diagram, highlighting their functions, common issues, and tips for sourcing genuine parts. Below is an organized overview of the main topics covered.

- Overview of the Stihl MS390 Parts Diagram
- Engine Components and Layout
- Clutch and Chain Brake Assembly
- Fuel and Carburetor System
- Starter and Ignition Parts
- Maintenance and Replacement Tips

# Overview of the Stihl MS390 Parts Diagram

The Stihl MS390 parts diagram is a detailed schematic that illustrates every component within the chainsaw, from the smallest screws to major assemblies. It serves as a visual manual for understanding how parts fit together and interact. This diagram is crucial for identifying part numbers accurately, which is necessary for ordering replacements or performing repairs. The layout typically categorizes parts by function, such as the engine, fuel system, and safety features, making it easier to navigate and locate specific components.

## Engine Components and Layout

The engine is the heart of the Stihl MS390 chainsaw, and the parts diagram provides an in-depth view of this assembly. It includes the cylinder, piston, crankshaft, and associated gaskets and seals. Each part is numbered and labeled, allowing users to see how these components connect and operate together. Proper understanding of the engine layout is vital for diagnosing performance issues such as power loss or unusual noises.

## Cylinder and Piston Assembly

The cylinder and piston form the combustion chamber where fuel ignition occurs. The diagram highlights the piston rings, wrist pin, and cylinder bore, showing their precise placement. These parts must be in good condition to maintain engine compression and efficiency.

## Crankshaft and Bearings

The crankshaft converts the piston's linear motion into rotational force, powering the chain. Bearings support the crankshaft's rotation and reduce friction. The parts diagram details these components to assist in identifying wear or damage points that can lead to engine failure.

# Clutch and Chain Brake Assembly

The clutch and chain brake systems are critical for the safe operation of the Stihl MS390 chainsaw.

The parts diagram outlines these assemblies to show how the clutch engages with the chain sprocket and how the chain brake mechanism functions to stop the chain rapidly in emergencies.

## Clutch Components

The clutch consists of shoes, springs, and a drum that work together to engage and disengage the chain based on engine speed. The diagram helps users understand the interaction of these parts and is essential for troubleshooting slipping or dragging chains.

## Chain Brake Mechanism

The chain brake is a safety feature designed to stop the chain instantly if kickback occurs. The diagram includes the brake band, lever, and spring, illustrating their positions and connections. Familiarity with these parts ensures effective maintenance of the safety system.

# Fuel and Carburetor System

The fuel system of the Stihl MS390, depicted in the parts diagram, includes the fuel tank, fuel lines, carburetor, and related filters. This section is crucial for understanding fuel delivery and air-fuel mixture regulation, which directly affect engine performance and emissions.

## Carburetor Parts and Functions

The carburetor mixes air and fuel in the correct ratio for combustion. The parts diagram shows components such as the throttle lever, diaphragm, needle valve, and jets. Proper adjustment and maintenance of these parts are essential for smooth engine operation.

## Fuel Tank and Filter

The fuel tank stores the gasoline-oil mixture, and the fuel filter prevents debris from entering the carburetor. The diagram details the tank's cap, vent, and filter placement, which helps in regular inspection and replacement to avoid fuel flow issues.

## Starter and Ignition Parts

The starting and ignition systems enable the chainsaw to power up and maintain combustion. The parts diagram includes the recoil starter assembly, ignition coil, spark plug, and flywheel.

Understanding these components aids in diagnosing starting problems and ensuring reliable ignition.

### Recoil Starter Assembly

This assembly allows manual starting of the engine by pulling a cord that spins the flywheel. The diagram shows the starter rope, pulley, spring, and housing, which must be intact for effective engine cranking.

### Ignition Coil and Spark Plug

The ignition coil generates the electrical spark necessary to ignite the fuel-air mixture inside the cylinder. The spark plug delivers this spark to the combustion chamber. The parts diagram assists in locating and identifying these components for testing or replacement.

## Maintenance and Replacement Tips

Using the Stihl MS390 parts diagram effectively can simplify maintenance and part replacement tasks. It is important to source genuine Stihl parts to ensure compatibility and durability. Proper documentation of part numbers from the diagram aids in ordering the correct items. Regular inspection

of key components such as the chain, sprocket, filters, and seals can prevent costly repairs.

- Always consult the parts diagram before disassembling the chainsaw.
- Use genuine Stihl replacement parts to maintain performance and safety.
- Keep the diagram accessible during repairs to verify part orientation and placement.
- Replace worn or damaged components promptly to avoid further damage.
- Follow manufacturer guidelines for torque settings and assembly procedures.

## **Frequently Asked Questions**

### **Where can I find a parts diagram for the Stihl MS390 chainsaw?**

You can find the Stihl MS390 parts diagram on the official Stihl website under the 'Parts & Service' section or through authorized Stihl dealers' online portals.

### **What information does a Stihl MS390 parts diagram provide?**

A Stihl MS390 parts diagram shows exploded views of the chainsaw components, including part numbers, assembly order, and identification of each part for maintenance or repair.

### **Is the Stihl MS390 parts diagram available for free online?**

Yes, many websites, including the official Stihl site and various tool parts retailers, offer free downloadable or viewable parts diagrams for the MS390 model.

## **How can I use the Stihl MS390 parts diagram to order replacement parts?**

By locating the part number on the diagram corresponding to the faulty component, you can provide this number to a Stihl dealer or order online to ensure you receive the correct replacement part.

## **Does the Stihl MS390 parts diagram include the engine components?**

Yes, the parts diagram typically includes detailed illustrations of the engine components such as the piston, cylinder, carburetor, and ignition system.

## **Can I view the Stihl MS390 parts diagram on a mobile device?**

Yes, most online parts diagrams are mobile-friendly or available as PDFs, allowing you to easily view the Stihl MS390 parts diagram on smartphones or tablets.

## **Are there different versions of the Stihl MS390 parts diagram for different years?**

Yes, minor variations in parts and assemblies can occur between production years, so it's important to reference the diagram that matches your specific MS390 model year.

## **What should I do if the parts diagram for the Stihl MS390 does not match my chainsaw?**

If the diagram doesn't match, verify your model number and production year, then consult with a Stihl dealer or official support to get the correct parts diagram.

## **Can I use the MS390 parts diagram to perform repairs myself?**

Yes, the diagram helps identify parts and their placement, which can assist in DIY repairs; however, ensure you have the proper skills and tools or seek professional help if unsure.

# Where can I purchase genuine Stihl MS390 parts after identifying them in the parts diagram?

Genuine Stihl MS390 parts can be purchased through authorized Stihl dealers, the official Stihl website, or reputable online retailers that specialize in Stihl parts.

## Additional Resources

### 1. *Stihl MS390 Chainsaw Maintenance and Repair Guide*

This comprehensive guide covers everything you need to know about maintaining and repairing the Stihl MS390 chainsaw. It includes detailed parts diagrams, troubleshooting tips, and step-by-step instructions to help users keep their equipment in optimal condition. Whether you're a professional or a hobbyist, this book is an essential resource for extending the life of your chainsaw.

### 2. *Understanding Stihl MS390 Parts and Components*

This book provides an in-depth look at the individual parts that make up the Stihl MS390 chainsaw. With clear diagrams and explanations, it helps readers identify each component and understand its function within the machine. The book is ideal for anyone looking to perform their own repairs or upgrades.

### 3. *Chainsaw Repair and Parts Diagram Handbook: Stihl MS390 Edition*

Designed specifically for the Stihl MS390, this handbook offers detailed exploded diagrams of the chainsaw's parts. It serves as both a visual aid and a practical manual for disassembling, diagnosing, and reassembling the tool. The clear illustrations make it easier to find and replace faulty parts.

### 4. *The Complete Stihl MS390 Parts Catalog*

This catalog compiles every part used in the Stihl MS390 model, providing part numbers, specifications, and compatibility information. It is a valuable reference for ordering replacement parts and understanding the assembly of the chainsaw. The book also includes tips on preventing common parts failures.

### *5. DIY Stihl MS390 Repair and Maintenance Manual*

Aimed at do-it-yourself enthusiasts, this manual breaks down the repair and maintenance process into easy-to-follow steps. It features parts diagrams alongside instructions to help users identify and fix common issues with the Stihl MS390. Safety guidelines and best practices are also emphasized throughout.

### *6. Stihl MS390 Chainsaw: Troubleshooting and Parts Identification*

This book focuses on diagnosing problems specific to the Stihl MS390 chainsaw and matching them with the correct parts needed for repair. The parts diagrams are annotated with troubleshooting notes, making it easier for users to pinpoint problems quickly. It's a helpful tool for both beginners and experienced mechanics.

### *7. Essential Parts and Service Manual for Stihl MS390*

Providing a blend of parts diagrams and service advice, this manual is designed to assist users in performing routine servicing and part replacements. It covers engine components, fuel systems, and cutting assemblies in detail. The book also includes maintenance schedules to keep the chainsaw running smoothly.

### *8. Stihl MS390 Engine and Parts Breakdown*

Focusing primarily on the engine and its related components, this book offers detailed exploded views and descriptions of the MS390's power unit. It's an indispensable resource for those looking to understand engine mechanics or perform in-depth repairs. The clear illustrations help clarify complex assemblies.

### *9. Mastering Stihl MS390: Parts, Repair, and Maintenance*

This all-encompassing guide teaches owners how to master the Stihl MS390 through detailed parts diagrams, repair techniques, and maintenance tips. It covers everything from basic upkeep to advanced troubleshooting and part replacement. The book is written in accessible language, making it suitable for users of all skill levels.

## **Stihl Ms390 Parts Diagram**

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