

stihl bg86 parts diagram

stihl bg86 parts diagram is an essential resource for anyone looking to maintain, repair, or understand the components of the STIHL BG86 blower. This article delves into the detailed breakdown of the parts diagram, exploring key components, their functions, and how they interconnect to ensure optimal performance. Whether you are a professional technician or a homeowner performing routine maintenance, understanding the parts diagram can facilitate efficient troubleshooting and replacement of worn parts. Additionally, this guide highlights common issues associated with the BG86 model and offers insights into sourcing genuine components. The comprehensive overview provided here aims to enhance your knowledge of the STIHL BG86 blower's construction and assist in prolonging its operational lifespan. Below is a table of contents to guide you through the main topics covered in this article.

- Understanding the STIHL BG86 Parts Diagram
- Key Components of the STIHL BG86 Blower
- Functions and Interactions of Major Parts
- Common Maintenance and Replacement Practices
- Tips for Sourcing Genuine STIHL BG86 Parts

Understanding the STIHL BG86 Parts Diagram

The STIHL BG86 parts diagram is a detailed schematic representation outlining every component of the BG86 blower model. This diagram serves as a visual roadmap, illustrating the placement and

relationship between parts such as the engine, fan housing, throttle components, and air filter assembly. It is designed to assist users in identifying individual parts precisely, which is crucial for effective repair and maintenance procedures. Utilizing the parts diagram ensures that replacements and repairs are done accurately, preventing damage caused by incorrect assembly or incompatible parts. The diagram typically includes exploded views, labeling each component with a unique part number, which corresponds to official STIHL replacement catalogs.

Importance of the Diagram for Maintenance

Having access to the stihl bg86 parts diagram significantly simplifies routine maintenance tasks such as cleaning, inspection, and part replacement. It allows technicians and users to pinpoint exact parts that might be malfunctioning or worn out without disassembling the entire blower unnecessarily. This targeted approach saves time and reduces the risk of damaging other components during maintenance. In addition, the diagram aids in understanding the mechanical layout, which is beneficial when troubleshooting operational issues.

How to Read the Diagram

Reading the STIHL BG86 parts diagram requires familiarity with technical illustrations. Each component is presented in an exploded view, showing how parts fit together or relate spatially. Part numbers are often indicated beside each item, corresponding to descriptions and specifications in the parts list. Users should start by identifying major assemblies, then move towards smaller components. This systematic approach helps in locating specific parts quickly and understanding their role within the blower assembly.

Key Components of the STIHL BG86 Blower

The STIHL BG86 blower is composed of several critical parts that work in unison to deliver powerful and efficient blowing performance. The parts diagram identifies these components, which include the

engine, impeller, throttle trigger, air filter, fuel system, and various housing elements. Each part has a specific function contributing to the overall operation of the blower. Understanding these components is fundamental for users seeking to perform maintenance or repairs on the BG86 model.

Engine Assembly

The engine assembly is the powerhouse of the BG86 blower, typically a 27.2 cc two-stroke engine designed for high efficiency and low emissions. Components within the engine assembly include the cylinder, piston, carburetor, spark plug, and muffler. These parts work together to generate the power necessary to drive the impeller and produce airflow. The parts diagram details the engine layout and assists in identifying parts that may require servicing or replacement.

Fan and Impeller System

The fan or impeller system is responsible for creating the airflow that enables debris removal. The impeller is connected directly to the engine crankshaft, and its blades accelerate air through the blower tube. The parts diagram shows the impeller's position relative to the housing and the linkage to the throttle system. Proper maintenance of the impeller is crucial, as damage or imbalance can reduce blower efficiency and cause vibrations.

Throttle and Control Components

The throttle mechanism, including the trigger and control cables, regulates engine speed and, consequently, airflow output. The parts diagram highlights how the throttle trigger is connected to the carburetor via control cables, allowing the user to modulate power output easily. These components require periodic inspection to ensure smooth operation and responsiveness.

Air Filter and Fuel System

The air filter prevents dust and debris from entering the engine, protecting internal components and maintaining performance. The fuel system includes the fuel tank, fuel lines, and carburetor, which manages the air-fuel mixture supplied to the engine. The parts diagram shows the layout and connection points for these elements, emphasizing the importance of keeping the air filter clean and using fresh fuel for optimal blower operation.

Functions and Interactions of Major Parts

The STIHL BG86 parts diagram not only identifies individual components but also demonstrates their interactions and collective functions within the blower system. Understanding how parts operate together is vital for diagnosing issues and ensuring proper assembly during repairs.

Engine and Impeller Coordination

The engine converts fuel into mechanical energy, which rotates the impeller at high speeds. This rotation generates the airflow necessary for debris removal. The parts diagram illustrates the direct mechanical link between the engine crankshaft and the impeller, highlighting key components such as the clutch mechanism that engages and disengages the impeller based on engine speed.

Throttle Control and Engine Speed

The throttle system modulates engine speed by controlling the carburetor's fuel and air intake. The parts diagram shows the throttle trigger's connection to control cables leading to the carburetor. When the throttle is engaged, it increases fuel flow, raising engine speed and airflow output. Understanding this interaction helps in troubleshooting throttle-related issues, such as unresponsive triggers or inconsistent engine speeds.

Air Filtration and Engine Protection

The air filter's role is to clean incoming air before it reaches the carburetor and engine combustion chamber. According to the parts diagram, the air filter is strategically positioned to maximize filtration efficiency. A clogged or damaged air filter can reduce engine performance and increase wear, underscoring the necessity of regular inspection and replacement as indicated in the diagram.

Common Maintenance and Replacement Practices

Routine maintenance of the STIHL BG86 blower relies heavily on the parts diagram to identify components that require service or replacement. Regular upkeep ensures reliable performance, prevents costly repairs, and extends the blower's lifespan.

Air Filter Cleaning and Replacement

The air filter should be checked frequently for dirt and debris accumulation. The parts diagram helps locate the filter housing and details the removal process. Cleaning involves gently washing or tapping out dust, while replacement may be necessary if the filter is torn or excessively clogged.

Inspecting and Replacing the Spark Plug

The spark plug is critical for engine ignition. Using the parts diagram, technicians can identify the spark plug's position and proper specifications. Regular inspection for wear, carbon buildup, or damage ensures consistent engine starting and performance. Replacement intervals depend on usage but typically occur annually or as indicated in the maintenance schedule.

Throttle Cable Adjustment

Throttle cables can stretch or wear over time, causing sluggish throttle response. The parts diagram

shows the routing and connection points for these cables, guiding adjustments or replacements.

Proper cable tension is essential for precise engine speed control.

Impeller and Fan Housing Maintenance

Inspecting the impeller for damage or debris buildup is necessary for maintaining airflow efficiency.

The parts diagram assists in safely disassembling the fan housing to access the impeller. Damaged impellers should be replaced promptly to avoid vibration and reduced performance.

Tips for Sourcing Genuine STIHL BG86 Parts

Using genuine parts ensures compatibility, durability, and optimal performance of the BG86 blower.

The parts diagram includes official part numbers, which are essential when ordering replacements from authorized dealers or STIHL distributors.

Verifying Part Numbers

The parts diagram lists unique identification numbers for each component. Cross-referencing these numbers with official STIHL catalogs or dealer inventories guarantees the correct parts are procured.

This practice prevents the issues associated with counterfeit or incompatible parts.

Authorized Dealers and Warranty Considerations

Purchasing parts from authorized STIHL dealers not only ensures authenticity but also maintains warranty coverage. The parts diagram can be used to confirm part names and numbers when consulting dealers, facilitating smoother transactions and warranty claims.

Quality and Longevity

Genuine STIHL parts are manufactured to strict quality standards and tested for durability. Using original components as indicated in the parts diagram helps maintain the blower's performance and reduces the frequency of repairs.

1. Check the parts diagram to identify the exact component needed.
2. Note the part number for ordering.
3. Consult authorized STIHL dealers using the part number.
4. Verify compatibility with your BG86 model.
5. Install replacement parts following the diagram's guidance.

Frequently Asked Questions

Where can I find a Stihl BG86 parts diagram?

You can find the Stihl BG86 parts diagram in the official Stihl owner's manual, on Stihl's official website, or through authorized Stihl dealer websites that provide parts lookup tools.

What is the purpose of the Stihl BG86 parts diagram?

The parts diagram helps users identify and order the correct replacement parts by visually showing all components and their part numbers for the Stihl BG86 blower.

Are Stihl BG86 parts diagrams available online for free?

Yes, many websites, including Stihl's official site and third-party parts retailers, offer free access to the Stihl BG86 parts diagrams online.

How do I use the Stihl BG86 parts diagram to order parts?

Locate the part you need on the diagram, note the corresponding part number, and then use that number to order the part from an authorized dealer or online retailer.

Does the Stihl BG86 parts diagram include exploded views?

Yes, the parts diagram typically includes exploded views that show how different components fit together, making it easier to understand assembly and disassembly.

Can I get a physical copy of the Stihl BG86 parts diagram?

Physical copies are usually included in the owner's manual, which can be purchased from Stihl dealers or downloaded and printed from official online resources.

What are some common parts shown in the Stihl BG86 parts diagram?

Common parts include the carburetor, air filter, spark plug, blower tube, throttle trigger, ignition module, and various screws and fasteners.

Is the Stihl BG86 parts diagram useful for repair and maintenance?

Absolutely, the diagram is essential for correctly identifying parts during repairs, ensuring proper maintenance, and avoiding incorrect installations.

How often is the Stihl BG86 parts diagram updated?

Updates to the parts diagram occur when there are design changes or new parts released; checking the latest version on Stihl's official site ensures you have the most current information.

Can I use the Stihl BG86 parts diagram for compatibility with other Stihl models?

While some parts may be shared across models, it is best to use the specific BG86 parts diagram to ensure compatibility and avoid ordering incorrect parts.

Additional Resources

1. *Stihl BG86 Parts Manual: Comprehensive Diagrams and Repair Guide*

This manual offers detailed exploded diagrams of the Stihl BG86 blower, making it easier to identify and replace parts. It includes step-by-step instructions for disassembly, maintenance, and reassembly. Ideal for DIY enthusiasts and professional technicians alike.

2. *Understanding Stihl BG86 Blower Components: A Visual Guide*

This book provides clear, labeled illustrations of every component in the Stihl BG86 blower. It explains the function of each part, helping users understand how the blower operates. The guide is perfect for beginners wanting to learn more about their equipment.

3. *Stihl BG86 Maintenance and Repair Handbook*

Focused on routine maintenance and troubleshooting, this handbook offers practical advice supported by parts diagrams. It covers common issues, cleaning tips, and replacement procedures to keep your blower running smoothly. The book is an essential resource for extending the life of your BG86.

4. *Small Engine Repair: Stihl BG86 Edition*

This volume specializes in the Stihl BG86 engine, detailing its parts and repair techniques. It includes comprehensive diagrams to assist with diagnosing engine problems and performing repairs. Mechanics

and hobbyists will find this guide invaluable.

5. Stihl BG86 Parts Catalog: Identification and Ordering Guide

Designed to help users identify and order genuine Stihl parts, this catalog features detailed diagrams and part numbers. It simplifies the process of finding the correct components for repairs or upgrades. The book also explains warranty information and parts compatibility.

6. The Complete Stihl BG86 Blower Service Manual

A thorough manual that combines parts diagrams with service procedures, this book covers everything from basic upkeep to complex repairs. It includes safety tips and diagnostic charts to assist users in maintaining optimal performance. Suitable for both professionals and homeowners.

7. DIY Stihl BG86 Repairs: Illustrated Step-by-Step Instructions

This book provides easy-to-follow repair instructions with accompanying parts diagrams for the Stihl BG86 blower. It is designed for non-experts who want to confidently perform repairs at home. The guide covers common repairs such as carburetor cleaning, spark plug replacement, and air filter maintenance.

8. Stihl BG86 Troubleshooting and Parts Breakdown

Focused on diagnosing problems, this book pairs troubleshooting tips with detailed parts breakdowns. It helps users quickly identify faulty components and understand how to fix them. The diagrams aid in visualizing the blower's internal structure.

9. Essential Tools and Parts for Stihl BG86 Maintenance

This guide highlights the necessary tools and replacement parts for maintaining the Stihl BG86 blower. It includes parts diagrams to show where each tool is used and explains how to perform key maintenance tasks. The book is a practical resource for keeping your blower in top condition.

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