

# PARTS DIAGRAM FOR STIHL CHAINSAW

## Latest Edition

**Parts diagram for Stihl chainsaw** is an essential resource for both new and experienced users who want to understand the complex components of their equipment. Whether you're performing maintenance, troubleshooting issues, or replacing parts, having a clear and detailed diagram can save time and prevent costly mistakes. Stihl chainsaws are renowned for their durability, power, and reliability, but proper understanding of their parts is crucial to ensuring optimal performance and safety. In this comprehensive guide, we will explore the key components of a Stihl chainsaw, explain their functions, and provide tips on how to interpret parts diagrams effectively.

## Understanding the Importance of a Parts Diagram for Stihl Chainsaw

### Why Use a Parts Diagram?

A parts diagram provides a visual representation of the chainsaw's components, allowing users to:

- Identify specific parts quickly
- Understand how components fit and work together
- Accurately order replacement parts
- Perform repairs and maintenance with confidence
- Reduce the risk of damage during repairs

## Benefits of Familiarity with Chainsaw Components

Knowing the parts of your chainsaw enables you to:

- Maintain the tool more effectively
- Extend the lifespan of the chainsaw
- Ensure safety during operation and maintenance
- Improve cutting efficiency and performance

## Major Parts of a Stihl Chainsaw

Understanding the major parts of a Stihl chainsaw is fundamental before delving into detailed diagrams. Below is an overview of the primary components:

## 1. Engine and Powertrain

The engine powers the chainsaw, typically a two-stroke gas engine. Its associated parts include:

- Carburetor
- Fuel tank
- Spark plug
- Recoil starter
- Oil pump

## 2. Guide Bar and Chain

The guide bar supports the cutting chain and guides it during operation.

- Guide bar
- Cutting chain
- Chain sprocket
- Chain tensioner

## 3. Chain Brake System

A safety feature designed to stop the chain immediately during kickback or emergency:

- Chain brake handle
- Brake band
- Brake mechanism

## 4. Lubrication System

Ensures smooth operation and prolongs component life:

- Oil reservoir
- Oil pump
- Oil delivery tube

## 5. Handle and Safety Features

For control and safety:

- Main handle
- Rear handle with throttle trigger
- Throttle lockout
- Anti-vibration mounts

## 6. Other Components

Additional parts include:

- Air filter
- Clutch assembly
- Exhaust muffler
- Starter cord and assembly

## How to Read a Parts Diagram for a Stihl Chainsaw

Interpreting a parts diagram can seem daunting at first. Here are key tips to help you understand and utilize these diagrams effectively:

### Identify the Diagram Type

- Exploded View Diagrams: Show how parts fit together, often with numbered labels.
- Assembly Diagrams: Illustrate the assembly process for specific components.
- Parts List Tables: Correspond numbered parts to part numbers, descriptions, and quantities.

### Understand the Numbering System

- Each part is assigned a unique number in the diagram.
- Cross-reference these numbers with the parts list to find detailed information.

### Use the Parts List Effectively

- Locate the part number associated with your component.
- Confirm the description and specifications before ordering or replacing parts.

## Common Symbols and Indicators

- Dashed lines often indicate hidden components or internal parts.
- Arrows show the direction of movement or assembly.

## Popular Components in a Stihl Chainsaw Parts Diagram

Here, we delve into the specific parts commonly highlighted in Stihl chainsaw diagrams:

### 1. Guide Bar

- Acts as the track for the chain.
- Variations include length and shape depending on model.

### 2. Cutting Chain

- The cutting element that performs the work.
- Composed of drive links, cutting teeth, and tie straps.

### 3. Clutch and Clutch Drum

- Transfers power from the engine to the chain.
- Engages/disengages during operation.

### 4. Chain Tensioner

- Adjusts the tightness of the chain.
- Ensures proper operation and safety.

### 5. Oil Pump and Reservoir

- Delivers chain and bar lubrication.
- Critical for preventing overheating and wear.

### 6. Air Filter

- Protects engine from dirt and debris.
- Regular cleaning or replacement recommended.

## 7. Spark Plug

- Ignites the fuel-air mixture.
- Needs periodic inspection and replacement.

## 8. Carburetor

- Mixes fuel and air for combustion.
- Adjustments can improve performance.

## 9. Ignition System

- Includes ignition coil and switch.
- Initiates spark for engine start.

## 10. Safety Features

- Chain brake handle
- Throttle lockout
- Anti-vibration mounts

# Steps to Use a Parts Diagram for Troubleshooting and Maintenance

Proper use of parts diagrams can streamline troubleshooting and maintenance:

### Step 1: Identify the Issue

- Is the chainsaw not starting?
- Is the chain not moving smoothly?
- Is there excessive vibration or noise?

### Step 2: Locate the Relevant Parts in the Diagram

- Use the diagram to find the suspected component.
- Note its location and connections.

### Step 3: Cross-Reference with the Parts List

- Confirm the part number for replacement.
- Check for common issues such as wear or damage.

### Step 4: Perform Maintenance or Replacement

- Follow safety precautions.
- Disassemble as per diagram instructions.
- Replace or repair the component.

### Step 5: Reassemble and Test

- Reassemble parts following the diagram's guidance.
- Test the chainsaw to ensure proper operation.

## Where to Find Parts Diagrams for Stihl Chainsaws

Accessing accurate diagrams is critical:

- **Official Stihl Website:** Download PDFs of parts diagrams and manuals.
- **Authorized Dealers:** Many dealers provide detailed diagrams and parts lists.
- **Online Parts Retailers:** Websites like Partzilla, eReplacementParts, and Stihl-specific portals often feature diagrams.
- **Service Manuals:** Purchase or download service manuals that include exploded views and parts lists.

## Tips for Maintaining Your Stihl Chainsaw Using the Parts Diagram

Proper maintenance extends the equipment's lifespan:

- Regularly inspect the chain and guide bar for wear and replace if necessary.
- Keep the air filter clean to ensure optimal engine performance.

- Check and adjust chain tension using the tensioner, referencing the diagram.
- Lubricate the chain and guide bar according to specifications.
- Replace the spark plug periodically to maintain reliable starts.
- Use the diagram to identify and replace worn or damaged safety components.

## Conclusion

A well-understood parts diagram for a Stihl chainsaw is an invaluable tool for ensuring safe, efficient, and effective operation of your equipment. By familiarizing yourself with the key components, how to interpret diagrams, and the proper maintenance procedures, you can extend the lifespan of your chainsaw and perform repairs confidently. Always refer to official diagrams and manuals for accurate information, and consult professionals if needed. With proper knowledge and care, your Stihl chainsaw will remain a reliable tool for your cutting needs for years to come.

### Parts Diagram for Stihl Chainsaw: An Expert Breakdown

Owning a Stihl chainsaw is synonymous with reliability, power, and precision. As one of the leading brands in the chainsaw industry, Stihl has built its reputation on durable design and user-friendly features. However, to truly appreciate the craftsmanship behind these tools, understanding the parts diagram for a Stihl chainsaw is essential. Whether you're a seasoned professional, a dedicated DIYer, or a homeowner looking to maintain your equipment, knowing the individual components and their functions can significantly improve your maintenance practices and troubleshooting skills.

In this comprehensive guide, we'll explore the detailed parts diagram of a typical Stihl chainsaw, dissect each component, and provide insights into their roles within the overall system. This knowledge not only aids in repairs but also enhances your understanding of how these powerful tools operate.

## Understanding the Overall Structure of a Stihl Chainsaw

Before diving into individual parts, it's important to grasp the general architecture of a Stihl chainsaw. Most models share core components such as the engine, cutting system, and various safety and control features. The typical layout includes:

- Engine/Motor: Usually a two-stroke gasoline engine or an electric motor.
- Guide Bar & Chain: The cutting components.
- Carburetor & Fuel System: Supplies fuel to the engine.
- Lubrication System: Ensures smooth operation of the chain and engine parts.
- Handle & Controls: User interface components for operation and safety.
- Housing & Frame: Structural elements that hold everything together.

Having this mental map helps in understanding how each part fits within the whole.

## Major Parts of a Stihl Chainsaw

Let's explore each critical part in detail, highlighting their functions, common issues, and maintenance tips.

### 1. Engine (Powerhead)

The heart of any chainsaw, the engine converts fuel into mechanical energy. Stihl engines are renowned for their efficiency and durability.

- Components:
- Cylinder & Piston: The combustion chamber where fuel burns.
- Crankshaft: Transmits the piston's motion to the drive system.
- Carburetor: Mixes air and fuel for combustion.
- Ignition System: Spark plug and coil ignite the mixture.
- Cooling Fins: Dissipate heat during operation.
- Maintenance Tips:
- Regularly clean air filters.
- Check spark plug condition and replace if worn.
- Use fresh, proper-grade fuel to prevent engine issues.

### 2. Chain & Guide Bar

The cutting components are what make a chainsaw effective.

- Guide Bar:
- Serves as the track for the chain.
- Comes in various lengths depending on the model and cutting needs.
- Features a groove on the top and rails on the sides to guide the chain.
- Chain:
- Comprises cutting teeth, drive links, and tie straps.
- The teeth are sharpened to cut through wood efficiently.
- Lubricated by bar and chain oil to reduce wear.
- Key Points:
- Proper tensioning is critical?too tight or too loose hampers performance.
- Regular sharpening maintains cutting efficiency.
- Replace worn or damaged chains promptly.



### 3. Chain Tensioning System

Proper chain tensioning ensures safe and efficient operation.

- Components:
- Tensioner Screw: Adjusts the chain tension.
- Clamping Plate/Nuts: Holds the bar in position.
- Functionality:
- Allows for easy adjustment of chain tension.
- Prevents the chain from derailing or causing kickback.
- Maintenance Tips:
- Check tension before each use.
- Ensure the chain moves freely but is snug against the bar.

### 4. Oil System

Lubrication is vital for prolonging chain life and ensuring smooth operation.

- Oil Tank:
- Stores chain and bar oil.
- Usually located at the rear or side of the saw.
- Oiling Pump:
- Delivers oil to the chain via a small tube.
- Operates automatically when the engine runs.
- Nozzle & Oil Ports:
- Direct oil flow onto the chain and bar.
- Maintenance Tips:
- Use only manufacturer-recommended bar and chain oil.
- Regularly check oil levels.
- Clean or replace clogged oil ports.

### 5. Air Filter

Ensures the engine breathes clean air, free of debris.

- Location:
- Usually housed near the carburetor.
- Types:

- Foam, paper, or combination filters.
- Maintenance Tips:
- Clean or replace filters regularly.
- A dirty filter can cause poor engine performance.

## 6. Muffler & Spark Arrestor

Controls emissions and noise, while preventing sparks.

- Muffler:
- Reduces exhaust noise.
- May include a spark arrestor screen.
- Spark Arrestor:
- Prevents hot particles from escaping and causing fires.
- Usually removable for cleaning.
- Maintenance Tips:
- Clean the spark arrestor screen periodically.
- Replace if damaged.

## 7. Safety Features & Controls

Enhance user safety and control over the chainsaw.

- Throttle Trigger & Lockout:
- Controls engine speed.
- Lockout prevents accidental engagement.
- Chain Brake:
- Stops chain movement in kickback situations.
- Engaged manually or automatically.
- Rear Handle & Front Handle:
- Provides grip and stability.
- Chain Catcher:
- Prevents chain from flying off if it breaks.
- Vibration Dampers:
- Reduce operator fatigue.

## Detailed Parts Diagram: Visualizing the Components

Visual aids are invaluable for understanding complex machinery. A typical parts diagram for a Stihl

chainsaw is a labeled schematic that maps each component within the assembly. While diagrams vary across models, the core parts remain consistent.

Key features of the parts diagram include:

- Numbered Labels: Each part is assigned a number for easy identification.
- Exploded View: Shows how parts fit together, often with separation to illustrate internal components.
- Legend/Key: Corresponds numbers to part names and specifications.

Accessing the official parts diagram from Stihl's website or service manual can help in pinpointing exact replacement parts and understanding assembly/disassembly procedures.

## Common Repairs & Troubleshooting Using the Parts Diagram

Knowing your parts diagram makes troubleshooting significantly easier.

Common issues and related parts include:

- Chains Not Cutting Properly:
  - Dull chain teeth.
  - Worn drive links.
  - Dirty or clogged oil ports.
- Engine Won't Start:
  - Faulty spark plug.
  - Dirty air filter.
  - Fuel system blockages.
- Chain Jamming or Derailing:
  - Incorrect chain tension.
  - Damaged guide bar.
- Excessive Vibration:
  - Worn vibration dampers.
  - Loose bolts.

By referencing the parts diagram, you can quickly identify which component might be at fault, order the correct replacement, and reassemble with confidence.

## Conclusion: The Value of a Parts Diagram for Stihl Chainsaw Owners

A thorough understanding of the parts diagram for a Stihl chainsaw transforms how you maintain and troubleshoot your equipment. It empowers users to perform routine checks, identify issues early, and carry out repairs with precision, ultimately extending the lifespan of the tool.

Whether you're looking to replace a worn chain, repair the oil system, or understand the inner workings of your chainsaw, familiarizing yourself with the detailed parts diagram is invaluable. It bridges the gap between technical manuals and practical application, making maintenance less daunting and more manageable.

In essence, knowing your chainsaw's parts not only enhances safety and efficiency but also deepens your appreciation for the engineering excellence behind each Stihl product. Regularly consulting the parts diagram, coupled with proper maintenance, ensures your chainsaw remains a powerful, reliable partner in your cutting projects for years to come.

**Question** What is a parts diagram for a Stihl chainsaw used for? A parts diagram for a Stihl chainsaw illustrates all the individual components and their placement within the tool, helping users identify, order, and replace specific parts efficiently. Where can I find a parts diagram for my specific Stihl chainsaw model? You can find parts diagrams on the official Stihl website, authorized dealer manuals, or online parts retailers that provide detailed exploded views for various models. How do I interpret a Stihl chainsaw parts diagram? To interpret a parts diagram, familiarize yourself with the diagram's labeling system, identify parts by their numbers or names, and cross-reference with your chainsaw's manual for accurate identification. Can I use a parts diagram to troubleshoot issues with my Stihl chainsaw? Yes, a parts diagram helps in diagnosing problems by allowing you to visually inspect and identify damaged or worn components that may need replacement. Are parts diagrams for Stihl chainsaws available in digital format? Yes, many Stihl parts diagrams are available as downloadable PDFs or interactive online tools on the official Stihl website and authorized parts suppliers. Why is it important to use a parts diagram when ordering replacement parts? Using a parts diagram ensures you select the correct part for your chainsaw model, reducing the risk of ordering incompatible components and ensuring proper repair and safety. How detailed are Stihl chainsaw parts diagrams? Stihl parts diagrams are highly detailed, often showing exploded views of assemblies with labeled individual components to facilitate accurate identification and repairs. Can I repair my chainsaw myself using a parts diagram? Yes, a detailed parts diagram can assist you in performing basic repairs or replacements if you have some mechanical skills and follow safety precautions. What should I do if I can't find a parts diagram for my Stihl chainsaw model? If unavailable online, contact an authorized Stihl dealer or customer service for assistance in obtaining the correct parts diagram and guidance for repairs.

**Related keywords:** stihl chainsaw parts, chainsaw diagram, stihl saw parts, chainsaw parts list, stihl saw diagram, chainsaw repair diagram, stihl chainsaw schematic, chainsaw component diagram, stihl saw parts breakdown, chainsaw assembly guide

## fs 87 stihl

**fs 87 stihl** is a renowned chainsaw model celebrated for its exceptional balance of power, maneuverability, and user-friendly features. Designed for both professional arborists and serious homeowners, the FS 87 Stihl offers a reliable performance that makes it a top choice for pruning, cutting firewood, and small to medium tree felling. Its innovative engineering and durable construction ensure that users can rely on this tool for years to come, making it a valuable addition to any outdoor equipment arsenal. In this comprehensive guide, we will explore all aspects of the FS 87 Stihl, including its features, specifications, benefits, maintenance tips, and why it stands out among other chainsaws on the market.

### Overview of the FS 87 Stihl

The FS 87 Stihl is a professional-grade, lightweight, and versatile chainsaw with a focus on ease of use and high performance. It features a well-balanced design that reduces fatigue during extended use, along with advanced safety features to protect operators. Whether you are trimming branches, pruning trees, or undertaking small logging tasks, the FS 87 offers precision and power wrapped into a compact frame.

#### Key Features of the FS 87 Stihl

- Powerful 2-MIX Engine
- Lightweight and Ergonomic Design
- Advanced Anti-Vibration System
- Easy Start Mechanism
- Adjustable Cutting Head
- Durable Construction and Quality Materials
- Enhanced Safety Features
- Low Emission and Fuel Consumption

Understanding these features can help users determine if the FS 87 Stihl is the right fit for their needs.

### Detailed Specifications of the FS 87 Stihl

Knowing the technical specs of the FS 87 Stihl can help prospective buyers and users better understand its capabilities.

#### Engine and Power

- Engine Type: 2-MIX, 2-stroke engine
- Displacement: 27.2 cc
- Power Output: Approximately 0.9 HP (horsepower)
- Fuel Mixture: 50:1 (gasoline to oil ratio)

## Dimensions and Weight

- Weight (without cutting equipment): Around 4.2 kg (9.3 lbs)
- Bar Length: 25 cm to 30 cm (10 to 12 inches) options
- Sound Power Level: 112 dB(A)
- Vibration Levels: Reduced thanks to anti-vibration system

## Operational Features

- Fuel Tank Capacity: 0.34 liters
- Oil Tank Capacity: 0.2 liters
- Chain Speed: Up to 22.6 m/sec

## Benefits of Using the FS 87 Stihl

Choosing the right chainsaw depends on understanding its core advantages. The FS 87 Stihl offers numerous benefits that make it a superior choice for many users.

### 1. High Performance with Fuel Efficiency

The 2-MIX engine technology combines power with low fuel consumption and emissions, making the FS 87 both eco-friendly and economical to operate.

### 2. Lightweight and Maneuverable

Its lightweight design reduces user fatigue, enabling longer work periods without discomfort. The ergonomic handles and balanced weight distribution further enhance control.

### 3. User-Friendly Operation

Features such as easy-start mechanisms, adjustable cutting heads, and intuitive controls make operating the FS 87 straightforward, even for less experienced users.

### 4. Enhanced Safety

Safety features like chain brake, anti-vibration system, and low kickback design ensure the operator's safety during use.

## 5. Versatility

Suitable for a variety of tasks including pruning, trimming, and small-scale felling, making it an all-in-one tool for outdoor professionals and enthusiasts.

## How to Use the FS 87 Stihl Effectively

Proper usage maximizes the performance and lifespan of your chainsaw. Here are tips for optimal operation:

### 1. Pre-Operation Checks

- Inspect the chain tension and lubrication levels.
- Ensure the chain brake is engaged when starting.
- Check for any damages or loose parts.

### 2. Starting the Chainsaw

- Use the easy start system for smooth ignition.
- Place the chainsaw on a flat surface.
- Engage the chain brake before starting.
- Pull the starter cord firmly until the engine fires.

### 3. Cutting Techniques

- Maintain a firm grip with both hands.
- Use the lower part of the bar for controlled cuts.
- Avoid forcing the saw; let the chain do the work.
- Keep the chain sharp for efficient cutting.

### 4. Post-Use Maintenance

- Clean debris and sawdust from the chain and bar.
- Check chain tension and lubricate as needed.

- Store in a dry, safe place away from children.

## Maintenance Tips for the FS 87 Stihl

Regular maintenance ensures the longevity and optimal performance of your chainsaw.

### 1. Sharpen the Chain

- Use a proper chainsaw file to maintain sharpness.
- Follow manufacturer guidelines for sharpening angles.
- Replace the chain if it becomes too worn.

### 2. Check and Replace the Bar

- Inspect for wear or damage.
- Replace if the groove becomes uneven or the bar is bent.

### 3. Lubrication

- Regularly check chain oil levels.
- Use high-quality chain oil for smooth operation.

### 4. Engine Maintenance

- Mix fuel accurately according to specifications.
- Clean air filters regularly.
- Use fresh fuel to prevent engine issues.

### 5. Inspection and Replacement of Parts

- Replace worn-out or damaged parts promptly.
- Ensure safety features are functioning properly.

## Why Choose the FS 87 Stihl? Comparing with Other Chainsaws

While there are many chainsaw options available, the FS 87 Stihl distinguishes itself through its



unique combination of features.

## Advantages over Competitors

- Superior Power-to-Weight Ratio: Offers ample power without being heavy or cumbersome.
- Innovative Engine Technology: The 2-MIX engine reduces emissions and fuel consumption.
- Enhanced Comfort: Anti-vibration system reduces fatigue.
- Reliability and Durability: Built with high-quality materials for long-term use.
- Ease of Maintenance: Designed for straightforward upkeep.

## Customer Feedback and Reviews

Most users praise the FS 87 for its reliable performance, ease of handling, and low operating costs. Many professionals rely on it for daily tasks, emphasizing its durability and safety features.

## Conclusion: Is the FS 87 Stihl the Right Chainsaw for You?

The FS 87 Stihl combines power, efficiency, and user comfort in a compact package, making it an excellent choice for a variety of outdoor tasks. Its advanced safety features, lightweight design, and efficient engine make it suitable for both professionals and homeowners who require a dependable tool. Regular maintenance and proper operation will ensure that this chainsaw serves you well for many years.

If you're seeking a versatile, reliable, and efficient chainsaw, the FS 87 Stihl deserves serious consideration. Whether you're trimming branches, pruning trees, or handling small felling jobs, this model is engineered to meet your needs with excellence.

Keywords: FS 87 Stihl, chainsaw, Stihl chainsaw, professional chainsaw, lightweight chainsaw, pruning chainsaw, durable chainsaw, fuel-efficient chainsaw, safety features chainsaw, Stihl FS 87 review

## FS 87 Stihl: An In-Depth Review of the Versatile and Reliable Gas-Powered Brush Cutter

When it comes to tackling demanding landscaping tasks, especially those involving thick grass, weeds, and brush, a dependable and powerful string trimmer or brush cutter becomes an essential tool. Among the numerous options available in the market, the Stihl FS 87 stands out as a professional-grade, versatile machine designed to meet the needs of landscapers, property owners, and forestry workers alike. In this comprehensive review, we'll explore every aspect of the Stihl FS 87, from its technical specifications and features to user experience and maintenance considerations, providing you with all the information needed to determine if it's the right tool for

your outdoor tasks.

## Introduction to the Stihl FS 87

The Stihl FS 87 is part of Stihl's robust lineup of professional trimmers and brush cutters. Known for its durability, high performance, and user-friendly design, this model has earned a reputation among professionals and serious hobbyists. It is particularly suited for clearing overgrown areas, managing roadside vegetation, and maintaining large properties with challenging terrain.

Key Highlights:

- High power-to-weight ratio
- Easy starting system
- Ergonomic design for reduced fatigue
- Compatibility with various cutting attachments
- Built-in safety features

## Technical Specifications and Features

### Engine and Powertrain

The Stihl FS 87 is equipped with a 2-stroke, 27.2 cc engine that delivers reliable power while maintaining a manageable weight. It produces approximately 0.9 horsepower, making it suitable for heavy-duty tasks but still accessible for extended use.

- Engine Displacement: 27.2 cc
- Power Output: ~0.9 hp
- Fuel Mixture: 50:1 (gasoline with two-stroke oil)
- Fuel Capacity: 0.33 liters

This engine design emphasizes efficiency and robustness, capable of handling thick weeds, brush, and small trees with ease.

### Cutting Head and Attachments

The FS 87 supports multiple cutting attachments, making it a versatile tool:

- Polyamide Line Head: Ideal for grass and light weeds.

- Metal Blades: For thicker brush and woody material.
- String Trimmers: Compatible with various diameter lines.
- Optional Accessories: Hedge trimmers and cultivators for expanded functionality.

The ability to interchange attachments allows users to adapt the tool to diverse tasks, maximizing its utility.

## Design and Ergonomics

Stihl has prioritized user comfort with the FS 87's design:

- Anti-vibration System: Multiple dampers reduce operator fatigue.
- Adjustable Throttle and Handle: Customizable for optimal control.
- Balanced Weight Distribution: Enhances maneuverability.
- Ergonomic Loop Handle: Provides a secure grip and comfortable operation.

The overall design aims to reduce fatigue during prolonged use, which is essential for professional landscapers and serious homeowners.

## Starting System and Ease of Use

The FS 87 features Stihl's IntelliCarb system (or similar starting innovations), which simplifies the startup process:

- Easy Start-up: Reduced effort during startup, minimizing pull force.
- Primer Bulb: Ensures quick fueling and priming.
- Quick-Release Throttle Lock: Enhances safety and convenience.

These features make the FS 87 accessible even for less experienced users, reducing the frustration often associated with starting powerful outdoor tools.

## Safety Features

Safety is paramount with power tools, and the FS 87 incorporates several features:

- Throttle Trigger Lock: Prevents accidental engagement.
- Chain Brake/Blade Guard: Protects the operator from debris.
- Vibration Dampers: Minimize hand fatigue and improve control.

- Protective Shield: Shields the user from debris thrown during operation.

## Performance Analysis

### Power and Cutting Efficiency

The Stihl FS 87 excels in providing consistent, high torque across its operational range. Whether trimming grass or slicing through dense brush, the engine's power delivery remains steady, ensuring clean cuts and efficient work.

- Grass and Light Weeds: The polyamide line head handles these with ease, providing fast and clean trimming.
- Thick Brush and Small Trees: Metal blades or heavy-duty trimmer lines are effective, allowing the user to clear overgrowth quickly.
- Heavy-duty Tasks: The combination of engine power and robust attachments makes the FS 87 capable of handling challenging overgrowth with minimal effort.

Performance feedback from users often emphasizes the machine's reliability and ability to maintain performance over prolonged periods without significant decline.

### Handling and Maneuverability

Thanks to its ergonomic design, the FS 87 offers excellent handling:

- Lightweight Construction: Weighing approximately 11 pounds (without attachments), it reduces operator fatigue.
- Vibration Control: Dampers and balanced design contribute to smoother operation.
- Adjustable Components: Handle and controls can be customized for optimal comfort.

Operators report that the FS 87 is easy to maneuver around obstacles, trees, and uneven terrain, making it suitable for both professional and residential applications.

### Fuel Efficiency and Runtime

Given its 27.2 cc engine and efficient design, the FS 87 offers respectable fuel economy:

- Estimated Runtime: Up to 45-60 minutes per tank, depending on workload.
- Fuel Consumption: Moderate, with the 50:1 mixture offering a good balance between power and

economy.

Regular maintenance, such as cleaning the air filter and carburetor adjustments, can optimize fuel efficiency and extend the machine's lifespan.

## Maintenance and Durability

Maintaining the Stihl FS 87 is straightforward, thanks to its accessible design:

- Air Filter: Easy to access and replace, crucial for maintaining performance.
- Spark Plug: Simple to inspect and replace.
- Cutting Head and Blades: Require periodic sharpening and replacement depending on use.
- Fuel System: Should be checked regularly for clogs or leaks.

Stihl's reputation for durability is evident in the FS 87's construction, with high-quality materials and components designed to withstand rigorous use. Proper maintenance ensures the tool remains reliable for years.

## Pros and Cons

Pros:

- Powerful engine suitable for heavy-duty tasks
- Versatile with multiple attachment options
- Ergonomic and balanced design reduces fatigue
- Easy to start with innovative systems
- Robust safety features

Cons:

- Slightly heavier than some consumer-grade trimmers
- Requires mix gasoline, which may be inconvenient for some users
- Higher price point compared to basic models
- Maintenance knowledge required for optimal performance

## Who Should Consider the FS 87?

The Stihl FS 87 is best suited for:

- Professional landscapers and groundskeepers
- Property owners with extensive overgrown areas
- Utility workers and forestry personnel
- Serious DIY enthusiasts seeking a durable, versatile tool

Its combination of power, durability, and adaptability makes it a valuable investment for demanding outdoor tasks.

## Conclusion: Is the Stihl FS 87 the Right Choice?

The Stihl FS 87 stands out as a top-tier, professional-grade brush cutter that offers impressive power, versatility, and ergonomic comfort. While it requires a higher investment and some basic maintenance knowledge, its performance and durability justify the cost for those who need a reliable tool capable of handling challenging outdoor work.

If you're seeking a machine that can efficiently clear thick brush, manage overgrown areas, and adapt to various attachments, the FS 87 is an excellent choice. Its thoughtful design, safety features, and proven performance make it a standout in the realm of gas-powered trimmers and brush cutters.

In summary:

- For demanding landscaping and forestry work, the FS 87 provides unmatched reliability.
- Its versatility makes it suitable for a range of tasks beyond basic trimming.
- Investing in the FS 87 means choosing a tool built to last, with the support of the trusted Stihl brand.

Before making your purchase, consider your specific needs, the scope of your projects, and your comfort with maintenance routines. For those requiring a powerful, durable, and adaptable outdoor power tool, the Stihl FS 87 is undoubtedly worth serious consideration.

**Question** What are the key features of the Stihl FS 87 trimmer? The Stihl FS 87 features a lightweight design, a powerful 27.2 cc engine, anti-vibration system for reduced user fatigue, and a straight shaft for easy maneuverability, making it ideal for professional and homeowner use. **Answer** How does the Stihl FS 87 compare to other trimmers in its class? The FS 87 offers a balanced combination of power, comfort, and durability, making it a popular choice among professionals. Its anti-vibration system and easy start mechanism set it apart from many competitors in the same category. What maintenance tips are recommended for the Stihl FS 87? Regularly clean the air filter, check and replace the spark plug, keep the cutting head sharp, and inspect the fuel system. Proper maintenance ensures optimal performance and longevity of the trimmer. Is the Stihl FS 87

suitable for heavy-duty trimming tasks? Yes, the FS 87 is designed to handle demanding trimming jobs, thanks to its robust engine and durable construction. However, for very heavy or commercial use, users should ensure proper handling and maintenance. Where can I purchase genuine Stihl FS 87 parts and accessories? Genuine Stihl parts and accessories can be purchased through authorized Stihl dealers, official online stores, or certified retailers to ensure quality and compatibility.

**Related keywords:** chainsaw, Stihl FS 87, outdoor power equipment, brush cutter, grass trimmer, garden tools, lawn equipment, Stihl trimmer, weed eater, garden machinery

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