

Stihl Fs 87 R Manual

stihl fs 87 r manual is an essential resource for anyone looking to operate, maintain, or troubleshoot this powerful professional-grade brush cutter. As a versatile tool favored by landscapers, gardeners, and property owners, understanding the ins and outs of the STIHL FS 87 R manual ensures optimal performance, safety, and longevity of the equipment. Whether you're a seasoned professional or a beginner, having a comprehensive manual at your fingertips can make all the difference in achieving efficient results and preventing common issues.

Introduction to the STIHL FS 87 R Brush Cutter

The STIHL FS 87 R is renowned for its robust engine, ergonomic design, and reliability in heavy-duty vegetation management. Designed for clearing dense brush, tall grass, and overgrown areas, this brush cutter offers exceptional power combined with user comfort.

Key Features of the STIHL FS 87 R

1. 2-Mix engine technology for reduced emissions and fuel consumption
2. Comfortable loop handle with adjustable features
3. Anti-vibration system for reduced operator fatigue
4. Easy start-up mechanism for quick operation
5. Durable cutting head suitable for various attachments

For maximum efficiency, it's crucial to understand the components, maintenance routines, troubleshooting tips, and safety guidelines outlined in the official manual.

Understanding the STIHL FS 87 R Manual

A comprehensive manual serves as a blueprint for safe and effective operation of the brush cutter. It covers everything from initial setup to detailed troubleshooting.

What Does the Manual Cover?

1. **Assembly Instructions:** Step-by-step guidance on assembling the brush cutter from the box.
2. **Operating Procedures:** Correct start-up, operation, and shut-down procedures.
3. **Maintenance Guidelines:** Routine checks, cleaning, lubrication, and part replacements.
4. **Troubleshooting:** Common problems, causes, and solutions.
5. **Safety Precautions:** Important safety tips to prevent accidents and injuries.
6. **Technical Specifications:** Engine details, cutting capacity, and warranty info.

Having the manual accessible ensures you can quickly reference specific sections when needed, especially during maintenance or troubleshooting.

Operational Tips from the STIHL FS 87 R Manual

Proper operation is key to the longevity of your equipment and safety. The manual offers detailed instructions to maximize efficiency.

Starting the Brush Cutter

1. Ensure the area is clear of debris and bystanders.
2. Check fuel levels and ensure the machine has fresh, correctly mixed fuel.
3. Set the choke according to the engine temperature.
4. Prime the carburetor if necessary, following the manual's instructions.
5. Pull the starter cord firmly until the engine fires, then gradually move to the run position.

Operating the FS 87 R Safely

1. Always wear appropriate personal protective equipment (PPE) such as gloves, goggles, and hearing protection.
2. Maintain a firm grip and proper stance during operation.
3. Avoid working in wet or windy conditions to prevent accidents.
4. Operate at a steady pace, avoiding sudden movements that could cause loss of control.

Shutting Down the Equipment

1. Release the throttle trigger and allow the engine to idle.
2. Switch off the engine using the stop switch.
3. Allow the machine to cool down before storing or performing maintenance.

Maintenance and Care Instructions in the Manual

Routine maintenance is vital for ensuring your STIHL FS 87 R remains in optimal condition. The manual provides detailed schedules and procedures.

Daily Maintenance Tasks

1. Inspect the cutting head and replace any worn parts.
2. Clean the air filter and cooling system to prevent overheating.
3. Check for fuel leaks or loose connections.

Periodic Maintenance

1. Replace spark plugs according to the manual's schedule.
2. Check and adjust carburetor settings for smooth operation.
3. Lubricate the drive shaft and other moving parts as recommended.
4. Inspect and replace the starter cord if frayed or damaged.

Long-Term Storage Tips

1. Drain fuel or add a fuel stabilizer before storage periods.
2. Store in a dry, sheltered location away from direct sunlight.
3. Perform a thorough cleaning before storage to prevent corrosion.

Troubleshooting Common Issues with the STIHL FS 87 R

The manual provides troubleshooting charts that help diagnose and fix common problems.

Engine Won't Start

1. Check fuel mixture and fuel level.
2. Ensure the spark plug is clean and properly connected.
3. Verify that the choke is set correctly for startup.
4. Inspect the air filter for clogs or dirt.

Engine Runs Rough

1. Clean or replace the air filter.
2. Adjust carburetor settings as per manual instructions.
3. Check for fuel contamination or stale fuel.

Loss of Power

1. Ensure the cutting head is not jammed.
2. Inspect the drive shaft for damage or obstruction.
3. Verify proper fuel mixture and engine tuning.

Excessive Vibrations

1. Check for damaged or loose parts.
2. Inspect the anti-vibration mounts and replace if worn.
3. Ensure the cutting head is balanced.

Safety Guidelines in the STIHL FS 87 R Manual

Safety is paramount when operating heavy equipment like the FS 87 R. The manual emphasizes critical safety measures.

Personal Protective Equipment (PPE)

1. Safety goggles or face shields
2. Hearing protection such as earplugs or earmuffs
3. Gloves to improve grip and protect hands
4. Sturdy footwear with non-slip soles

5. Long pants and sleeves to protect skin

Operational Safety Tips

1. Never operate the brush cutter under the influence of alcohol or drugs.
2. Avoid cutting above shoulder height to maintain control.
3. Keep bystanders and pets at a safe distance.
4. Be aware of your surroundings, including power lines and obstacles.

Emergency Procedures

1. Know how to quickly shut down the engine in case of emergency.
2. In case of fuel leakage or fire, follow proper procedures to extinguish and report.
3. Seek professional repair for any damage beyond basic maintenance.

Where to Find the STIHL FS 87 R Manual

The manual is typically included with the purchase of the equipment, but digital versions are also available.

Official STIHL Resources

1. Visit the official STIHL website and search for your model in the manuals section.
2. Contact authorized STIHL dealers for printed or PDF copies.
3. Download PDF versions for quick access on smartphones or tablets.

Additional Support and Resources

1. Watch instructional videos provided by STIHL on proper operation and maintenance.
2. Join online forums and communities for user tips and troubleshooting advice.
3. Consult professional service centers for repairs or complex issues.

Conclusion: Mastering Your STIHL FS 87 R with the Manual

Having a thorough understanding of the **stihl fs 87 r manual** empowers users to operate this powerful tool safely and efficiently. Regular maintenance, adherence to safety guidelines, and proper troubleshooting based on the manual's instructions will extend the lifespan of your brush cutter and ensure optimal performance. Whether you're preparing for a big clearing job or performing routine upkeep, keeping the manual handy is an investment in your equipment's longevity and your safety. Remember, always follow the manufacturer's instructions carefully, and don't hesitate to seek professional assistance when needed to keep your STIHL FS 87 R functioning at its best for

Stihl FS 87 R Manual: An In-Depth Review and Guide The Stihl FS 87 R manual is an essential resource for landscaping professionals, homeowners, and groundskeepers who rely on this versatile string trimmer for maintaining lawns, gardens, and large outdoor areas. Known for its durability, power, and ergonomic design, the FS 87 R has established itself as a reliable tool in the professional-grade trimmer market. This

comprehensive guide aims to explore every aspect of the FS 87 R manual, providing users with detailed insights into its features, operation, maintenance, and troubleshooting.

Overview of the Stihl FS 87 R

The Stihl FS 87 R is a professional-grade, lightweight, and powerful trimmer designed for demanding outdoor tasks. It belongs to Stihl's line of handheld outdoor power tools, renowned for their robustness and ease of use. The "R" in the model name signifies its "professional" design, optimized for high-performance cutting and trimming. Key Features and Specifications - Engine Type: 2-stroke, gasoline-powered engine - Displacement: 27.2 cc - Power Output: Approx. 0.75 kW (1.0 HP) - Cutting Head: Tap-action or semi-automatic head options - Shaft: Round, lightweight, and ergonomic - Weight: Approximately 4.4 kg (9.7 lbs) without attachments - Vibration Control: Yes, to reduce user fatigue - Fuel Capacity: 0.34 liters These specifications make the FS 87 R well-suited for trimming grass edges, weeds, and light brush, especially in medium to large areas.

Understanding the User Manual: Importance and Components

The manual serves as the primary guide for safe and effective operation, maintenance, and troubleshooting of the FS 87 R. For first-time users and seasoned professionals alike, understanding the manual's structure and content is vital. Typical Structure of the Manual 1. Safety Precautions: Warnings, protective gear, and safe handling practices 2. Product Overview: Parts identification and description 3. Assembly Instructions: Step-by-step setup procedures 4. Operation Guidelines: Starting, stopping, and using the trimmer effectively 5. Maintenance and Servicing: Routine checks, cleaning, and repairs 6. Troubleshooting: Common issues and solutions 7. Technical Data: Specifications and replacement parts 8. Warranty and Service Information Each section contains detailed instructions, diagrams, and safety notices to ensure proper use and prolong the lifespan of the equipment.

Assembly and Initial Setup

Before operating the FS 87 R, proper assembly and setup are critical. The manual provides precise steps to assemble the tool securely and prepare it for use. Assembly Steps - Attaching the Shaft and Handle: The straight or curved shaft must be securely connected to the engine housing. The loop handle is attached to the shaft using screws, ensuring it is tight but adjustable for comfort. - Installing the Cutting Head: The cutting head, usually supplied separately, must be mounted onto the driveshaft following torque specifications. Proper locking mechanisms should be engaged to prevent slippage. - Fuel Mixture Preparation: The manual emphasizes mixing high-quality 2-stroke oil with unleaded gasoline in a 50:1 ratio—important for engine health and performance. - Pre-Operation Checks: Verify all nuts, bolts, and safety guards are secure. Check the spark plug and air filter for cleanliness. Calibration and Adjustments - Carburetor Settings: The manual details how to adjust the carburetor screws for optimal engine performance, especially for different altitude and temperature conditions. - Vibration and Anti-Overload Settings: Adjustments may be necessary to minimize user fatigue and prevent overload during demanding tasks.

Operation Instructions: Starting, Using, and Stopping the FS 87 R

Proper operation not only enhances performance but also ensures safety. The manual provides detailed procedures for starting, operating, and stopping the trimmer. Starting the Engine 1. Pre-Start Checks: - Ensure the cutting head is clear of obstructions. - Confirm fuel mixture is adequate. - Check that safety guards and handle are properly installed. 2. Starting Procedure: - Engage the choke if the engine is cold. - Prime the carburetor if equipped with a primer bulb. - Turn the ON switch to the "RUN" position. - Pull the starter cord steadily until the engine fires. - Disengage the choke gradually as the engine warms up. - Let the engine idle briefly before beginning work. Operating the Trimmer - Hold the trimmer with a firm grip using both hands. - Maintain a steady, controlled motion to achieve clean cuts. - Use the protective guard to prevent debris from ricocheting. - Adjust the cutting height using the handle or shaft, depending on the model. Stopping and Safety Precautions - Release the throttle trigger to reduce engine speed. - Engage the stop switch to turn off the engine. - Wait for the cutting head to fully cease rotation before setting the tool down. - Disconnect spark plug wire during maintenance or when transporting.

Maintenance and Servicing: Ensuring Longevity

Regular maintenance as outlined in the manual guarantees the FS 87 R remains reliable and efficient. Neglecting routine checks can lead to decreased performance or costly repairs. Routine Maintenance Tasks - Air Filter Cleaning/Replacement: A clean air filter ensures proper airflow to the engine. The manual recommends inspecting it every 25 hours of operation. - Spark Plug Inspection: Check for wear or fouling; replace if necessary. - Fuel System Checks: Regularly inspect fuel lines for leaks or cracks. - Blade and Cutting Head Maintenance: Sharpen or replace blades to maintain cutting efficiency. - Vibration and Handle Adjustment: Ensure all screws and bolts are tight to prevent excessive vibration or handle loosening. Storage Guidelines - Empty the fuel tank before long-term storage. - Clean the entire tool, especially the cooling fins and air intake. - Store in a dry, well-ventilated area away from moisture and pests.

Troubleshooting Common Issues

Even with proper care, users may encounter issues. The manual offers troubleshooting tips that help identify and resolve common problems.

Common Problems and Solutions	Issue	Possible Cause	Recommended Action
Engine won't start	Fuel mixture incorrect, spark plug fouled, carburetor issues	Check fuel mixture, clean or replace spark plug, adjust carburetor	
Engine stalls during operation	Clogged air filter, dirty carburetor	Clean or replace air filter, clean carburetor	
Loss of power	Worn spark plug, clogged fuel filter	Replace spark plug, clean or replace fuel filter	
Excessive vibration	Loose handle or mounting bolts	Tighten all fasteners, inspect for damaged parts	
Cutting head not rotating	Clutch or drive shaft issues	Inspect clutch, replace worn parts	

Safety Reminder Always consult the manual before attempting repairs. If problems persist, contact authorized service centers to prevent further damage.

Technical Data and Replacement Parts

Understanding technical specifications and having access to genuine replacement parts is crucial for maintenance and repair. Technical Specifications Recap - Engine Displacement: 27.2 cc - Power Output: 0.75 kW - Weight: 4.4 kg - Fuel Capacity: 0.34 liters - Vibration Levels: Reduced through anti-vibration mounts Replacement Parts Genuine Stihl parts ensure optimal performance and safety. Common replacement components include: - Spark plugs - Air filters - Cutting heads/blades - Fuel filters - Drive shafts Consult the manual or official website for part numbers and authorized distributors.

Conclusion: The Value of the FS 87 R Manual

The Stihl FS 87 R manual is more than just a set of instructions—it's a comprehensive guide that empowers users to operate, maintain, and troubleshoot their trimmer confidently. Proper adherence to the manual's guidance promotes safety, efficiency, and longevity of the tool. Whether you are a professional landscaper or a dedicated homeowner, investing time in understanding the manual can result in better performance, fewer repairs, and a safer working environment. In summary, the FS 87 R is a robust, high-performance trimmer that, when used and maintained according to the manual, provides reliable service for years to come. Its combination of power, ergonomics, and durability makes it a valuable asset in any outdoor maintenance arsenal.

Questions & Answers About stihl fs 87 r manual

No	Question	Answer
1	Where can I find the official manual for the Stihl FS 87 R string trimmer?	You can find the official Stihl FS 87 R manual on the Stihl website under the 'Download' or 'Support' section, or by contacting your local Stihl dealer for a copy.
2	What are the key safety instructions in the Stihl FS 87 R manual?	The manual emphasizes wearing protective gear, ensuring the machine is properly assembled, checking for damage before use, and following proper starting and operating procedures to ensure safety.
3	How do I assemble the Stihl FS 87 R according to the manual?	The manual provides step-by-step instructions for attaching the shaft, securing the cutting head, and connecting the handle. It recommends consulting the diagrams and ensuring all parts are securely fastened before operation.
4	What maintenance tips are included in the Stihl FS 87 R manual?	The manual suggests regular cleaning, inspecting and replacing the cutting head and line, checking the spark plug, and lubricating moving parts to keep the trimmer in optimal condition.
5	How do I troubleshoot common issues with the Stihl FS 87 R as per the manual?	Common troubleshooting steps include checking the fuel mixture, inspecting the spark plug, cleaning the air filter, and ensuring the drive shaft is properly connected. The manual provides detailed solutions for various problems.
6	What fuel mixture does the Stihl FS 87 R manual recommend?	The manual recommends a 50:1 ratio of unleaded gasoline to two-stroke engine oil for optimal performance and engine longevity.

7	Are there any warranty or service guidelines in the Stihl FS 87 R manual?	Yes, the manual details warranty coverage, advises on authorized service centers, and emphasizes the importance of using genuine parts for repairs to maintain warranty validity.
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