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Stihl FS 89

Stihl FS 89 Brushcutter User Manual

Model: FS 89

1. INTRODUCTION

Thank you for choosing the Stihl FS 89 Brushcutter. This manual provides essential information for the safe and efficient operation, maintenance, and care of your brushcutter. Please read this manual thoroughly before first use and keep it in a safe place for future reference. The Stihl FS 89 is a versatile and powerful tool designed for clearing tough grass and weeds, featuring a lightweight and compact design with a fuel-efficient 4-Mix engine.



Image: Stihl FS 89 Brushcutter, showcasing its design with the bike handle and cutting head.

2. SAFETY INSTRUCTIONS

Your safety is paramount. Always follow these safety guidelines to prevent injury and damage to the equipment.

- **Personal Protective Equipment:** Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, sturdy footwear, long trousers, and gloves. Wearing safety glasses is strongly recommended when using this tool.
- **Work Area:** Ensure the work area is clear of bystanders, children, and pets. Remove any obstacles such as rocks, branches, or debris that could be thrown by the cutting head.
- **Fuel Handling:** Handle fuel with extreme care. Fuel is highly flammable. Always refuel in a well-ventilated area with the engine switched off and cool. Avoid spilling fuel.
- **Inspection:** Before each use, inspect the brushcutter for any damaged parts, loose fasteners, or worn cutting attachments. Do not operate a damaged machine.
- **Commercial Use:** For commercial use, please observe all applicable safety regulations and guidelines.
- **Operation:** Hold the brushcutter firmly with both hands. Maintain a stable footing. Do not overreach.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and undamaged:

- 1 x Stihl FS 89 Brushcutter with two-handle grip
- 1 x Stihl TrimCut 31-2 Cutting Head
- 1 x Stihl Carrying Strap
- 1 x Pair of Stihl Safety Glasses
- 1 x User Manual (this document)

4. SETUP

Follow these steps to prepare your Stihl FS 89 for operation:

1. **Handle Assembly:** Attach the two-handle grip (bike handle) to the shaft according to the instructions provided in the separate assembly guide or diagrams. Ensure it is securely fastened and positioned for comfortable operation.
2. **Cutting Head Installation:** Mount the TrimCut 31-2 cutting head onto the gearbox shaft. Refer to the specific instructions for cutting head attachment to ensure it is correctly and safely installed.
3. **Fuel Mixture:** The FS 89 features a Stihl 4-Mix engine. This engine requires a specific mixture of gasoline and Stihl 2-stroke engine oil. Always use Stihl's recommended mixing ratio (typically 50:1, but refer to the engine manual for exact specifications). Use fresh, high-quality unleaded gasoline.
4. **Fill Fuel Tank:** Carefully fill the fuel tank with the prepared fuel mixture. Do not overfill. Securely close the fuel cap.
5. **Adjust Carrying Strap:** Attach and adjust the carrying strap to distribute the weight of the brushcutter comfortably across your shoulders, ensuring good balance and reducing fatigue during operation.

5. OPERATING INSTRUCTIONS

Before starting, ensure you have read and understood all safety instructions.

5.1 Starting the Engine

1. Place the brushcutter on a firm, level surface.
2. Set the master control lever to the cold start position (choke).

3. Press the fuel pump (primer) several times until fuel is visible in the transparent bulb.
4. Pull the starter cord firmly until the engine fires briefly.
5. Immediately move the master control lever to the run position.
6. Pull the starter cord again until the engine starts and runs smoothly.
7. Allow the engine to warm up for a few moments before engaging the cutting head.

5.2 Operating the Brushcutter

- Hold the brushcutter firmly with both hands on the handle.
- Maintain a safe distance from the cutting head.
- Use a sweeping motion to cut grass and weeds.
- Avoid hitting hard objects with the cutting head.
- If the cutting head becomes entangled, release the throttle and switch off the engine before clearing the obstruction.

5.3 Stopping the Engine

To stop the engine, move the master control lever to the STOP position.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Stihl FS 89.

- **Cleaning:** After each use, clean the brushcutter, especially the cutting head and air intake, to remove grass, dirt, and debris.
- **Air Filter:** Regularly inspect and clean the air filter. Replace if damaged or excessively dirty.
- **Spark Plug:** Check the spark plug periodically. Clean or replace if necessary. Ensure the correct gap.
- **Cutting Head:** Inspect the cutting head for wear and damage. Replace worn cutting lines or damaged blades.
- **Fuel Filter:** Check and replace the fuel filter as recommended in the full service manual.
- **Storage:** When storing the brushcutter for extended periods, drain the fuel tank or use a fuel stabilizer. Clean the machine thoroughly and store it in a dry, secure location.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Stihl FS 89.

Problem	Possible Cause	Solution
Engine does not start	No fuel, incorrect choke setting, fouled spark plug, clogged fuel filter	Check fuel level, adjust choke, clean/replace spark plug, check/replace fuel filter
Engine runs poorly/lacks power	Dirty air filter, incorrect fuel mixture, worn spark plug	Clean air filter, use correct fuel mixture, replace spark plug
Cutting head does not spin	Obstruction, damaged cutting head, clutch issue	Clear obstruction (engine off!), inspect/replace cutting head, consult service center for clutch issues

If you encounter problems that cannot be resolved using this troubleshooting guide, please contact an authorized Stihl service dealer.

8. SPECIFICATIONS

Key technical specifications for the Stihl FS 89 Brushcutter:

- **Displacement:** 28.4 cm³
- **Power Output:** 0.95 kW / 1.3 hp
- **Weight:** 5.8 kg (12.8 lbs)
- **Overall Length:** 180 mm (7.1 inches)
- **Fuel Tank Capacity:** 0.71 L (24 fl oz)
- **Cutting Tool:** TrimCut 31-2
- **Engine Type:** Stihl 4-Mix Engine (Gas-powered)
- **Color:** Orange/Black

9. WARRANTY AND SUPPORT

Your Stihl FS 89 Brushcutter is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Stihl website. For technical support, spare parts, or service, please contact your authorized Stihl dealer. Spare parts information may not be available directly from general product listings; always consult an official Stihl service center for genuine parts.

For further assistance, please visit the official Stihl website or contact their customer service department.