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Stihl 4180 120 1800, 4180-120-1800, 41801201800

Instruction Manual for Stihl OEM Air Filter

Model: 4180 120 1800

1. Introduction

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your Stihl OEM Air Filter. This genuine Stihl part is designed to ensure optimal performance and longevity of your Stihl equipment by effectively filtering air intake.



Image 1.1: The Stihl OEM Air Filter, part number 4180 120 1800. This filter is a crucial component for protecting your engine from dust and debris.

2. Product Overview and Compatibility

The Stihl OEM Air Filter (Part No. 4180 120 1800) is a direct replacement part manufactured by Stihl to meet the exact specifications of your equipment. It is compatible with a wide range of Stihl Kombi-engines and other power tools.

Compatible Models:

- Stihl KM130, KM130R Kombi-engines
- SP90, SP90T
- FR130T

- HL90K, HL95, HL95K, HL100, HL100K
- FS87, FS87R, FS100, FS100R, FS100RX, FS110, FS110R, FS110X, FS110RX, FS130, FS130R, FS310, FS90, FS90R
- KM100, KM100R, KM110R, KM90, KM90R
- FC100, FC110, FC90, FC95
- HT100, HT101
- FT10

3. Setup and Installation

Proper installation of the air filter is crucial for engine protection. Always refer to your specific equipment's owner's manual for detailed, model-specific instructions. The following are general steps for air filter replacement:

1. **Safety First:** Ensure the engine is turned off and cool. Disconnect the spark plug wire to prevent accidental starting.
2. **Locate Air Filter Cover:** Identify the air filter cover on your Stihl equipment. This is typically secured with clips or screws.
3. **Remove Cover:** Carefully unclip or unscrew the air filter cover and remove it.
4. **Remove Old Filter:** Take out the old air filter. Note its orientation for correct installation of the new filter.
5. **Clean Housing:** Before installing the new filter, clean any dust or debris from the air filter housing using a clean cloth or compressed air. Ensure no debris falls into the carburetor.
6. **Install New Filter:** Insert the new Stihl OEM Air Filter (Part No. 4180 120 1800) into the housing, ensuring it is seated correctly and oriented as the old one was.
7. **Replace Cover:** Securely reattach the air filter cover, ensuring all clips are fastened or screws are tightened.
8. **Reconnect Spark Plug:** Reconnect the spark plug wire.

Note: Always dispose of old filters responsibly according to local regulations.

4. Operating Considerations

The air filter functions passively within your engine system. Its primary role is to prevent dirt, dust, and other airborne contaminants from entering the carburetor and engine cylinders. A clean, properly installed air filter ensures the engine receives clean air for combustion, leading to efficient operation and reduced wear on internal components.
No specific operational steps are required for the air filter itself beyond ensuring it is correctly installed and regularly maintained.

5. Maintenance

Regular maintenance of your air filter is vital for the performance and lifespan of your Stihl equipment. A clogged or dirty air filter can significantly reduce engine power, increase fuel consumption, and cause premature engine wear.

Inspection and Replacement:

- **Frequency:** Inspect the air filter regularly, especially after use in dusty or dirty conditions. For typical use, inspect every 10-20 operating hours or at least once per season.
- **Visual Check:** Remove the air filter and visually inspect it for dirt, debris, tears, or damage. Hold it up to a light source; if you cannot see light through it, it is likely clogged and needs replacement.
- **Cleaning:** This particular air filter type is generally not designed for cleaning. Attempting to clean it with compressed air or washing may damage the filter media and reduce its effectiveness. Replacement is the

recommended action when the filter is dirty or clogged.

- **Replacement:** Replace the air filter with a genuine Stihl OEM Air Filter (Part No. 4180 120 1800) when it appears dirty, damaged, or clogged.

6. Troubleshooting

Most issues related to the air filter stem from it being dirty or improperly installed. Below are common symptoms and their solutions:

Symptom	Possible Cause	Solution
Engine loses power or runs poorly	Clogged or dirty air filter	Inspect and replace the air filter.
Engine hard to start or won't start	Severely clogged air filter restricting airflow	Replace the air filter.
Increased fuel consumption	Dirty air filter causing engine to run rich	Replace the air filter.
Visible dirt or debris in carburetor area	Damaged or improperly installed air filter	Inspect filter for damage, ensure proper installation. Replace if damaged.

7. Specifications

Key specifications for the Stihl OEM Air Filter (Part No. 4180 120 1800):

Specification	Detail
Manufacturer	Stihl
Brand	Stihl
OEM Part Number	4180 120 1800
Item Model Number	4180 120 1800
Item Weight	5.9 ounces
Package Dimensions	3.19 x 2.91 x 0.55 inches
Automotive Fit Type	Vehicle Specific Fit

8. Important Safety Information

Always observe general safety precautions when working with power tools and their components:

- Always turn off the engine and allow it to cool before performing any maintenance or part replacement.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Ensure the work area is well-ventilated and free from flammable materials.
- If you are unsure about any procedure, consult a qualified service technician or your equipment's full owner's manual.

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