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› Stens Air Filter 102-414 Instruction Manual for Stihl BR340, BR340L, BR380, BR420, BR420C

Stens 102-414

Stens Air Filter 102-414 Instruction Manual

Model: 102-414 | Brand: Stens

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and understanding of your Stens 102-414 Air Filter. This air filter is a critical component designed to protect your engine from harmful contaminants, ensuring efficient operation and extending the lifespan of your outdoor power equipment. Regular inspection and replacement are vital for maintaining peak engine performance.

2. PRODUCT OVERVIEW

The Stens 102-414 Air Filter is a high-quality replacement part engineered to meet or exceed OEM specifications. It is designed for specific Stihl equipment models to ensure a precise fit and effective filtration.

- **Dimensions:** Width: 3 7/16 inches (8.73 cm), Length: 5 1/8 inches (13.02 cm), Height: 1 3/8 inches (3.49 cm).
- **Replaces OEM Numbers:** Stihl: 4203 141 0301A, 4203 141 0301.
- **Compatibility:** Fits Stihl BR340, BR340L, BR380, BR420, and BR420C models.
- **Material:** Constructed with durable filtration media for effective particle capture.



Image: Stens 102-414 Air Filter, a rectangular filter with a pleated white media and an orange base.

3. INSTALLATION

Proper installation of the air filter is crucial for its effectiveness. Always refer to your equipment's specific owner's manual for detailed instructions and safety precautions before proceeding.

1. **Safety First:** Ensure the equipment is turned off and cooled down. Disconnect the spark plug wire to prevent accidental starting.
2. **Locate Air Filter Housing:** Identify the air filter housing on your Stihl equipment. It is typically secured with clips or screws.
3. **Remove Cover:** Carefully unfasten the clips or screws and remove the air filter housing cover.
4. **Remove Old Filter:** Take out the old, dirty air filter. Note its orientation for correct installation of the new filter.
5. **Clean Housing:** Clean any debris or dust from inside the air filter housing and cover using a clean cloth or compressed air. Avoid letting debris enter the carburetor.
6. **Install New Filter:** Insert the new Stens 102-414 Air Filter into the housing, ensuring it fits snugly and is correctly seated. A tight fit is essential to prevent unfiltered air from bypassing the filter.
7. **Replace Cover:** Reattach the air filter housing cover and secure it with the clips or screws. Ensure it is properly

sealed.

8. **Reconnect Spark Plug:** Reconnect the spark plug wire.

4. MAINTENANCE

Regular maintenance of your air filter is essential for the longevity and performance of your engine. A dirty or clogged air filter can lead to reduced engine power, increased fuel consumption, and premature engine wear.

- **Inspection:** Inspect the air filter regularly, especially during periods of heavy use or in dusty conditions.
- **Replacement Schedule:** Replace the air filter as recommended by your equipment manufacturer, or more frequently if it appears dirty or damaged. Some equipment, like cut-off saws, may require more frequent filter changes.
- **Cleaning:** While some foam pre-filters can be cleaned, paper filters like the Stens 102-414 are generally designed for replacement rather than cleaning. Attempting to clean a paper filter can damage the filtration media and reduce its effectiveness.

Your browser does not support the video tag.

Video: An informational video from Stens discussing various types of air filters, their importance, and the benefits of using Stens filters for outdoor power equipment.

5. TROUBLESHOOTING

If your equipment experiences issues related to air intake after filter replacement, consider the following:

- **Poor Engine Performance:** If the engine runs poorly, check that the air filter is installed correctly and that the housing cover is securely sealed. An improper seal can allow unfiltered air and debris into the engine.
- **Excessive Smoke:** A severely clogged air filter can sometimes lead to an overly rich fuel mixture and excessive smoke. Ensure the filter is clean and not obstructed.
- **Difficulty Starting:** While less common, a completely blocked air filter can make starting difficult. Verify the filter is not excessively dirty.

If issues persist, consult a qualified service technician or your equipment's owner's manual for further troubleshooting steps.

6. SPECIFICATIONS

Specification	Detail
Product Grade	Replacement Part
Brand	Stens
Model Number	102-414
Fit Type	Vehicle Specific Fit
Product Dimensions (L x W x H)	5.13" x 3.44" x 1.38"
OEM Part Number (Stihl)	4203 141 0301A, 4203 141 0301
Compatible Models	Stihl BR340, BR340L, BR380, BR420, BR420C
Included Components	Air Filter
Unit Count	1.00 Count

7. WARRANTY AND SUPPORT

The Stens 102-414 Air Filter is backed by a **Stens one-year warranty**, ensuring reliability and performance. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or further product information, please contact Stens customer support through their official channels. Always provide your product model number (102-414) and any relevant purchase details when seeking support.

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