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Stihl 70-78-550

Instruction Manual: Stihl Backpack Blower Air Filter (2-Pack)

Model: 70-78-550 | Replacement for Stihl Part # 4282 141 0300 / 4282 141 0300B

Product Overview

This document provides essential information for the installation, operation, and maintenance of the replacement air filters designed for Stihl BR500, BR550, and BR600 backpack blowers. Each package contains two high-quality replacement air filters, ensuring you have a spare for future maintenance.

These filters are direct replacements for Stihl Part Numbers 4282 141 0300 and 4282 141 0300B, manufactured to meet the performance requirements of your equipment.



Image: Two new air filters, featuring orange frames and pleated yellow filter material, ready for installation in Stihl backpack blowers.

Specifications

Brand	Stihl (Replacement Part)
Model Number	70-78-550
Replaces Part Numbers	4282 141 0300, 4282 141 0300B
Compatible Models	Stihl BR500, BR550, BR600 Backpack Blowers
Package Contents	2 x Air Filters
Package Dimensions	9 x 4.2 x 4.1 inches
Item Weight	9.6 ounces
Country of Origin	USA
UPC	700953830609

Installation (Setup)

Replacing the air filter in your Stihl backpack blower is a straightforward process. Regular replacement ensures optimal engine performance and longevity.

1. **Safety First:** Ensure the blower's engine is off and cool before beginning any maintenance. Disconnect the spark plug wire to

prevent accidental starting.

2. **Locate the Air Filter Cover:** The air filter is typically housed under a cover on the side of the blower's engine. Refer to your Stihl blower's original manual for the exact location if unsure.
3. **Remove the Cover:** Unlatch or unscrew the air filter cover. Some models may require a screwdriver or a specific tool.
4. **Remove the Old Filter:** Carefully pull out the old, dirty air filter. Note its orientation for correct installation of the new filter.
5. **Clean the Housing:** Before installing the new filter, clean any debris, dust, or dirt from the air filter housing using a clean cloth or compressed air. Ensure no debris falls into the carburetor.
6. **Install the New Filter:** Insert one of the new replacement air filters into the housing, ensuring it fits snugly and is oriented correctly, matching the position of the filter you removed. The orange frame should align properly within the housing.
7. **Secure the Cover:** Reattach the air filter cover, ensuring it is securely latched or screwed back into place.
8. **Reconnect Spark Plug:** Reconnect the spark plug wire.

Operation

Once installed, the air filter operates passively as an integral part of your Stihl backpack blower's engine system. Its primary function is to prevent dust, dirt, and debris from entering the carburetor and engine cylinders. A clean air filter ensures a proper air-fuel mixture, which is crucial for efficient combustion, optimal power output, and reduced emissions.
Operating your blower with a clean air filter helps maintain consistent engine performance and extends the lifespan of internal engine components by protecting them from abrasive particles.

Maintenance

Regular maintenance of your air filter is vital for the health of your Stihl backpack blower. The frequency of inspection and replacement depends on the operating conditions and usage intensity.

- **Inspection:** Inspect the air filter regularly, especially after every 5-10 hours of operation or more frequently if operating in dusty environments. Look for signs of excessive dirt, debris, tears, or damage to the filter material.
- **Cleaning:** For light dust, you may gently tap the filter against a hard surface to dislodge loose debris.*Do not use compressed air at high pressure* as it can damage the filter media. *Do not wash the filter with water or cleaning solutions*, as this can compromise its filtering capabilities.
- **Replacement:** Replace the air filter when it appears heavily soiled, clogged, or damaged. A clogged filter restricts airflow, leading to reduced engine power, increased fuel consumption, and potential engine damage. It is recommended to replace the air filter at least once per season or every 25-50 hours of operation, whichever comes first, even if it doesn't appear severely dirty.

Troubleshooting

Issues related to the air filter often manifest as engine performance problems. Here are common symptoms and their potential solutions:

Symptom	Possible Cause (Air Filter Related)	Solution
Reduced Engine Power / Loss of RPM	Clogged or dirty air filter restricting airflow.	Inspect and replace the air filter.
Engine Runs Rough / Stalls	Insufficient air supply due to a heavily clogged filter.	Replace the air filter. Check for proper installation.
Increased Fuel Consumption	Engine compensating for restricted airflow by drawing more fuel.	Replace the air filter.

Symptom	Possible Cause (Air Filter Related)	Solution
Difficulty Starting Engine	Severely clogged air filter preventing proper air-fuel mixture.	Replace the air filter.
Visible Dirt/Debris in Carburetor Area	Damaged or improperly installed air filter.	Inspect filter for damage and ensure correct installation. Replace if damaged.

If these troubleshooting steps do not resolve the issue, consult a qualified service technician or refer to your Stihl blower's comprehensive service manual.

Warranty and Support

As this product is a replacement part manufactured by Alamia, Inc., any specific warranty information or direct product support should be sought from the manufacturer or the retailer from whom the product was purchased. Please retain your proof of purchase for any warranty claims.
For general maintenance and operation of your Stihl backpack blower, always refer to the original Stihl owner's manual.

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