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## Briggs & Stratton 808654

# Briggs & Stratton OEM Air Filter Instruction Manual

Essential guide for installation, maintenance, and troubleshooting of your Briggs & Stratton OEM Air Filter.

## Product Overview

This manual provides detailed instructions for the proper use and maintenance of your Briggs & Stratton OEM Air Filter, part number 808654. This genuine replacement part is designed to ensure optimal performance and longevity of your Briggs & Stratton engine by providing clean air for combustion.



**Image:** Briggs & Stratton OEM Air Filter. This image displays the black, rectangular air filter assembly, featuring a robust casing with integrated latches on its sides. This component is crucial for filtering air entering the engine, protecting internal parts from dust and debris.

**Compatible Engine Models:** This air filter is compatible with a wide range of Briggs & Stratton engines, including but not limited to models: 358772-0045-G1, 358772-3045-G1, 358776-1146-G1, 358776-3146-G1, 358777-0036-E1,

358777-0036-G1, 358777-0100-E1, 358777-0100-G1, 358777-0110-E1, 358777-0112-B1, 358777-0112-E1, 358777-0112-G1, 358777-0113-B1, 358777-0113-E1, 358777-0113-G1, 358777-0114-E1, 358777-0114-G1, 358777-0116-G1, 358777-0117-E1, 358777-0117-G1, 358777-0118-B1, 358777-0118-G1, 358777-0119-B1, 358777-0119-G1, 358777-0120-G1, 358777-0121-G1, 358777-0122-B1, 358777-0122-G1, 358777-0124-G1, 358777-0126-B1, 358777-0127-B1, 358777-0128-B1, 358777-0181-G1, 358777-0280-E1, 358777-0280-G1, 358777-0281-B1, 358777-0281-G1, 358777-1124-G1, 358777-3036-G1, 380442-0102-E1, 380442-0130-E1, 380447-0024-E1, 380447-0042-E1, 380447-0048-E1, 380447-0065-E1, 380447-0075-E1, 380447-0076-E1, 380447-0077-E1, 380447-0078-E1, 380447-0079-E1, 380447-0079-E2, 380447-0100-E1, 380447-0101-E1, 380447-0112-E1, 380447-0112-E2, 380447-0115-E1, 380447-0116-E1, 380447-0118-E1, 380447-0119-E1, 380447-0125-E1, 380447-0126-E1, 380447-0127-E1, 380447-0128-E1, 380447-0129-E1, 380447-0131-E1, 380447-0132-E1, 380447-0133-E1, 380447-0134-E1, 380447-0135-E1, 380447-0136-E1, 380447-0137-E1, 380447-0139-E1, 380447-0141-E1, 380447-0142-E1, 380447-0143-E1, 380447-0144-E1, 380447-0146-E1, 380447-0150-E1, 380447-0151-E1, 380447-0152-E1, 380447-0153-E1, 380447-0154-E1, 380447-0155-E1, 380447-0158-01, 380447-0161-E1, 380447-0163-E1, 380447-0164-01, 380447-0165-E1, 380447-0166-E1, 380447-0171-E1, 380447-0171-E2, 380447-0173-E1, 380447-0174-E1, 380447-0174-E2, 380447-0175-E1, 380447-0177-01, 380447-0217-E1, 380447-0218-E1, 380772-0102-E1, 380777-0024-E1.

## Installation (Setup)

Proper installation of the air filter is critical for engine protection and performance. Always refer to your specific engine's service manual for detailed, model-specific instructions. The following are general guidelines:

1. **Safety First:** Ensure the engine is turned off and cool before beginning any maintenance. Disconnect the spark plug wire to prevent accidental starting.
2. **Locate Air Filter Housing:** Identify the air filter housing on your engine. It is typically a plastic or metal cover secured with clips, screws, or wing nuts.
3. **Remove Old Filter:** Carefully open the air filter housing. Note the orientation of the old filter. Remove the old filter, taking care to prevent any debris from falling into the carburetor or engine intake.
4. **Clean Housing:** Wipe the inside of the air filter housing and cover with a clean, damp cloth to remove any accumulated dirt or dust. Ensure no moisture remains before installing the new filter.
5. **Install New Filter:** Place the new Briggs & Stratton OEM Air Filter (part number 808654) into the housing, ensuring it is seated correctly and securely. The filter should fit snugly without force.
6. **Secure Housing:** Reattach the air filter housing cover, ensuring all clips, screws, or wing nuts are tightened properly to create a sealed environment.
7. **Reconnect Spark Plug:** Reconnect the spark plug wire.

***Important:*** *Never run the engine without an air filter installed, as this can lead to severe engine damage from ingested dirt and debris.*

## Function and Importance (Operating)

The air filter is a critical component of your engine's intake system. Its primary function is to prevent dirt, dust, grass clippings, and other airborne contaminants from entering the carburetor and engine cylinders. Clean air is essential for proper fuel combustion and to prevent premature wear of internal engine components such as pistons, cylinder walls, and valves.

- **Engine Protection:** Filters out abrasive particles that can cause significant wear and damage to engine parts.
- **Optimal Performance:** Ensures a clean air-to-fuel mixture, which is vital for efficient combustion, consistent power output, and reduced emissions.
- **Fuel Efficiency:** A clean filter allows the engine to "breathe" properly, preventing it from running rich (too much fuel, not enough air) which can waste fuel.

A clogged or dirty air filter restricts airflow, leading to reduced engine power, increased fuel consumption, and potential engine damage over time.

## Maintenance

Regular maintenance of your air filter is crucial for the longevity and efficiency of your Briggs & Stratton engine. The frequency of maintenance depends on operating conditions (e.g., dusty environments require more frequent checks).

### Inspection and Cleaning:

- **Frequency:** Inspect the air filter every 25 operating hours or annually, whichever comes first. In very dusty conditions, inspect daily.
- **Procedure:**
    a. Remove the air filter as described in the "Installation" section.
    b. Visually inspect the filter element. If it is heavily soiled, torn, or damaged, it must be replaced.
    c. For foam pre-filters (if applicable), wash in liquid detergent and water. Squeeze dry in a clean cloth. Lightly oil with engine oil, then squeeze out excess oil.
    d. For paper cartridge filters (like this OEM part 808654), cleaning is generally not recommended as it can damage the filter media. Tapping the filter gently on a hard surface to dislodge loose debris may be done, but never use compressed air or wash with liquids, as this can damage the paper element.

### Replacement:

Replace the air filter annually or more frequently if operating in dusty conditions, or if inspection reveals it is heavily clogged or damaged. Always use genuine Briggs & Stratton OEM replacement parts, such as part number 808654, to ensure proper fit and filtration performance.

## Troubleshooting

A dirty or improperly installed air filter can lead to several engine performance issues. Here are common symptoms and their solutions:

| Symptom | Possible Cause | Solution |
|---|---|---|
| Reduced Engine Power / Loss of RPM | Clogged air filter restricting airflow. | Inspect and replace the air filter. |
| Increased Fuel Consumption | Engine running rich due to insufficient air. | Inspect and replace the air filter. |
| Engine Runs Rough / Misfires | Improper air-fuel mixture due to restricted airflow. | Inspect and replace the air filter. |
| Black Smoke from Exhaust | Engine running too rich (excess fuel, not enough air). | Inspect and replace the air filter. |
| Engine Not Starting | Severely clogged air filter preventing proper air intake. | Inspect and replace the air filter. |

If these steps do not resolve the issue, consult your engine's specific service manual or contact a certified service technician.

## Specifications

| Attribute | Detail |
|---|---|
| Product Type | OEM Air Filter |
| Brand | Briggs & Stratton |
| Part Number (Manufacturer Reference) | 808654 |
| Product Dimensions | 1 x 1 x 1 cm (0.39 x 0.39 x 0.39 inches) |
| Item Weight | 810 g (1.78 lbs) |
| Manufacturer | Power Distributors |
| ASIN | B002WO03TK |
| First Available Date | August 4, 2017 |

## Warranty Information

Briggs & Stratton OEM parts are typically covered by a limited warranty against defects in material and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase. For detailed warranty information, refer to the documentation included with your product or visit the official Briggs & Stratton website.

*Note: Use of non-OEM parts or improper installation may void your engine's warranty.*

## Support

For technical assistance, replacement part inquiries, or further support regarding your Briggs & Stratton engine or OEM parts, please contact Briggs & Stratton customer service or visit their official website. You may also consult an authorized Briggs & Stratton service dealer in your area.

When contacting support, please have your engine model number, type, and code readily available, along with the air filter part number (808654).

**Online Resources:** www.briggsandstratton.com

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