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## Rotary 1389

# Rotary 1389 Air Filter Instruction Manual

Model: 1389

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## PRODUCT OVERVIEW

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The Rotary 1389 Air Filter is a high-quality replacement component designed for specific Kohler and John Deere engine models. This air filter is crucial for maintaining engine performance and longevity by preventing dust, dirt, and debris from entering the engine's combustion chamber.

It directly replaces Kohler part number 47-083-03 and John Deere part number M47494. Ensure compatibility with your engine model before installation.



Figure 1: Side view of the Rotary 1389 Air Filter, showing its pleated filter material and blue frame.

## SETUP AND INSTALLATION

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Proper installation of the air filter is essential for optimal engine protection. Always refer to your equipment's specific service manual for detailed instructions and safety precautions.

### Safety Precautions:

- Ensure the engine is turned off and cool before beginning any maintenance.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment, such as gloves and eye protection.

### Installation Steps:

1. **Locate the Air Filter Housing:** On most Kohler engines, the air filter housing is typically a black or grey plastic box located near the carburetor.
2. **Open the Housing:** Unclip or unscrew the cover of the air filter housing. Be careful not to drop any fasteners.

3. **Remove the Old Filter:** Carefully remove the old air filter. Note its orientation. If a pre-filter (foam sleeve) is present, remove it as well.
4. **Clean the Housing:** Wipe the inside of the air filter housing and cover with a clean, damp cloth to remove any accumulated dirt or debris. Avoid letting debris fall into the carburetor intake.
5. **Inspect the New Filter:** Ensure the Rotary 1389 filter is free from damage.
6. **Install the New Filter:** Insert the new Rotary 1389 air filter into the housing, ensuring it seats properly. If your engine uses a pre-filter, install it over the new paper filter according to your engine's manual.
7. **Close the Housing:** Reattach the air filter housing cover, ensuring all clips or screws are securely fastened.
8. **Reconnect Spark Plug:** Reconnect the spark plug wire.



Figure 2: Top angle view of the Rotary 1389 Air Filter, highlighting its circular shape and internal pleats.

## OPERATING CONSIDERATIONS

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Once the new air filter is installed, the engine can be operated normally. A clean air filter ensures proper air-fuel mixture, leading to efficient combustion and reduced emissions. No specific operating adjustments are required for the air filter

itself.

Regularly check the air filter, especially when operating in dusty or dirty conditions, to ensure it remains clean and functional.

## MAINTENANCE

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The air filter is a critical maintenance item. A dirty or clogged air filter can significantly reduce engine performance, increase fuel consumption, and cause premature engine wear.

### Inspection and Replacement Schedule:

- **Regular Inspection:** Inspect the air filter every 25 hours of operation or annually, whichever comes first. More frequent inspection is recommended in dusty environments.
- **Replacement:** Replace the air filter annually or more frequently if it appears heavily soiled, damaged, or if engine performance degrades.

### Cleaning the Air Filter:

The Rotary 1389 is a paper element air filter and **should not be cleaned with water or compressed air**, as this can damage the filter media and reduce its effectiveness. Instead, gently tap the filter on a hard surface to dislodge loose dirt. If the filter remains heavily soiled, it should be replaced.



Figure 3: Top view of the Rotary 1389 Air Filter, showing the full circular profile.

## TROUBLESHOOTING

Issues related to the air filter typically manifest as engine performance problems.

### Common Air Filter Related Issues

| Symptom                                 | Possible Cause (Air Filter Related)   | Solution   |
|---|---|--|
| Engine loses power or runs rough        | Clogged or dirty air filter restricting airflow.                            | Inspect and replace the air filter if necessary. |
| Increased fuel consumption              | Clogged air filter causing a rich fuel mixture.                             | Inspect and replace the air filter.              |
| Engine smokes excessively (black smoke) | Insufficient air due to a clogged filter, leading to incomplete combustion. | Replace the air filter.                          |
| Engine difficult to start               | Severely clogged air filter.  | Replace the air filter.                          |

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

## SPECIFICATIONS

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| Attribute                       | Detail                                  |
|---------------------------------|---|
| Model Number                    | 1389                                    |
| Brand                           | Rotary                                  |
| Item Type                       | Air Filter                              |
| Replaces Kohler Part Number     | 47-083-03                               |
| Replaces John Deere Part Number | M47494                                  |
| Compatible Kohler Engine Models | K241, K301, K321, K361 (10 thru 20 hp)  |
| Dimensions (Approximate)        | ID 5-1/2" x OD 7" x 2-1/2"              |
| Material                        | Pleated paper filter with plastic frame |
| Item Weight                     | 7.2 ounces                              |

## SUPPORT AND CONTACT INFORMATION

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For further assistance, technical support, or inquiries regarding the Rotary 1389 Air Filter, please contact your retailer or the manufacturer directly.

Please have your product model number (1389) and any relevant engine information ready when contacting support.

*Note: This manual provides general guidance. Always refer to your specific engine or equipment manufacturer's manual for detailed instructions and safety information.*

