John Deere AT171854

John Deere Original Equipment Air Filter - AT171854 User Manual

Brand: John Deere | Model: AT171854

Product Overview

This document provides essential information for the John Deere Original Equipment Air Filter, model AT171854. This air filter is a genuine O.E.M. John Deere part designed to fit various John Deere equipment models. It is crucial for maintaining engine performance and longevity by preventing contaminants from entering the engine's combustion chamber.

Figure 1: Front view of the John Deere Original Equipment Air Filter AT171854, showing its cylindrical shape and blue filtration material.

Installation Guide

Proper installation of the air filter is vital for optimal engine performance and protection. Always refer to your specific John Deere equipment's service manual for detailed, model-specific instructions. The following are general steps for air filter replacement:

1. **Preparation:** Ensure the equipment engine is turned off and cool. Disconnect the battery if required by your equipment's manual.
2. **Locate Air Filter Housing:** Identify the air filter housing, typically a plastic or metal box connected to the engine's air intake.
3. **Open Housing:** Unlatch or unscrew the clips/bolts securing the air filter housing cover. Carefully remove the cover.
4. **Remove Old Filter:** Gently pull out the old air filter. Note its orientation for correct installation of the new filter.
5. **Clean Housing:** Wipe the inside of the air filter housing with a clean, damp cloth to remove any dust or debris. Avoid letting debris fall into the air intake.
6. **Install New Filter:** Insert the new John Deere AT171854 air filter into the housing, ensuring it seats properly and is oriented correctly. Do not force it.
7. **Secure Housing:** Replace the air filter housing cover and secure it with the clips or screws. Ensure a tight seal to prevent unfiltered air from entering the engine.
8. **Final Check:** Reconnect the battery if it was disconnected. Start the engine briefly to confirm proper operation.



Figure 2: Bottom view of the air filter, showing the "JOHN DEERE AT171854 MADE IN MEXICO" inscription and "DO NOT CLEAN" warning.



Figure 3: Top view of the air filter, revealing the internal mesh and filtration media, designed for efficient air flow and particle capture.

Operation

Once installed, the John Deere AT171854 air filter operates continuously to filter incoming air for the engine. It traps dust, dirt, pollen, and other airborne particles, preventing them from entering the engine's cylinders. This clean air supply is essential for efficient combustion, optimal engine power, and reduced wear on internal engine components.

Maintenance

Regular inspection and timely replacement of your air filter are critical for maintaining the performance and longevity of your John Deere equipment. A dirty air filter can restrict airflow, leading to decreased engine efficiency and potential damage.

- **Inspection Frequency:** Inspect the air filter regularly, especially in dusty conditions or after prolonged use. Refer to your equipment's service manual for recommended inspection intervals.
- **Visual Check:** Remove the air filter and hold it up to a light source. If you cannot see light through the filter media, or if it appears heavily soiled, it needs replacement.
- **Cleaning:** *Do not attempt to clean this air filter by washing or using compressed air.* The filter media is designed for single-use and cleaning can damage the filter, reducing its effectiveness and potentially allowing contaminants into the engine. The filter is marked "DO NOT CLEAN".
- **Replacement:** Replace the air filter with a new John Deere Original Equipment Air Filter AT171854 when it shows signs of clogging or damage.



Figure 4: Side view of the air filter, highlighting the robust outer casing and the intricate blue filtration material, designed for durability and effective particle capture.

Troubleshooting

If your John Deere equipment is experiencing performance issues, a clogged or improperly installed air filter could be a contributing factor. Consider the following common issues:

- **Reduced Engine Power:** A dirty air filter restricts airflow, leading to a "starved" engine and noticeable loss of power.
- **Increased Fuel Consumption:** The engine may run richer to compensate for reduced air, leading to higher fuel usage.
- **Black Smoke from Exhaust:** An overly rich fuel mixture due to insufficient air can cause black smoke.
- **Engine Misfires or Rough Idling:** Inconsistent air supply can lead to irregular engine operation.
- **Difficulty Starting:** A severely clogged filter can make starting the engine challenging.

Solution: If you observe any of these symptoms, inspect your air filter immediately. If it is dirty or damaged, replace it with a new John Deere AT171854 air filter following the installation guide. Ensure the air filter housing is properly sealed after replacement.

Product Specifications

Brand	John Deere
Model Number	AT171854
Manufacturer Part Number	AT171854
OEM Part Number	AT171854
Item Weight	10.4 ounces
Product Dimensions	14.5 x 4.3 x 4.3 inches
Date First Available	December 18, 2013

Warranty and Support

As an Original Equipment Manufacturer (OEM) part, the John Deere AT171854 Air Filter is manufactured to John Deere's quality standards. For specific warranty information pertaining to this part, please refer to the warranty documentation provided with your John Deere equipment or contact an authorized John Deere dealer or customer support directly. John Deere provides comprehensive support for its genuine parts.

For further assistance or inquiries, please visit the official John Deere website or contact their customer service department.

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