

HERO MSU-JD-0841

HERO® Maintenance Filter Kit User Manual

For John Deere 5103 Tractor (TSN -009122) (ESN 106597-)



HERO: A Maintenance Solutions Unlimited Brand

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and optimal use of your HERO® Maintenance Filter Kit. Designed specifically for the John Deere 5103 Tractor (TSN -009122) (ESN 106597-), this kit ensures your equipment operates with superior filtration efficiency, enhancing performance and extending the life of critical components.

Regular replacement of filters is crucial for maintaining the health and efficiency of your tractor. Please read this manual thoroughly before proceeding with any maintenance.

2. WHAT'S IN THE BOX

Your HERO® Maintenance Filter Kit includes the following replacement filters:

- Primary Air Filter (Replacement for RE68048)
- Secondary Air Filter (Replacement for RE68049)
- Engine Oil Filter (Replacement for RE519626)
- Hydraulic Oil Filter (Replacement for RE45864)
- Fuel Filter Water Separator (Replacement for RE60021)



Image: Contents of the HERO Maintenance Filter Kit, showing the primary air filter, secondary air filter, engine oil filter, hydraulic oil filter, and fuel filter water separator.



Image: An alternative perspective of the filter kit components, highlighting the various filter types and their distinct designs.

3. INSTALLATION AND SETUP

Proper installation of these filters is vital for your tractor's performance and longevity. Always refer to your John Deere 5103 Tractor's official service manual for detailed, model-specific instructions and safety precautions before beginning any filter replacement.

General Safety Precautions:

- Ensure the tractor is turned off, cooled down, and parked on a level surface.
- Engage the parking brake.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.

- Have spill containment materials ready for oil and fuel filters.

Filter Replacement Overview:

1. **Air Filters (Primary & Secondary):** Locate the air filter housing. Open the housing, remove the old filters, clean the housing interior, and install the new filters, ensuring a proper seal.
2. **Engine Oil Filter:** Drain the engine oil according to your tractor's manual. Locate the oil filter. Use an appropriate filter wrench to remove the old filter. Apply a thin film of new oil to the gasket of the new filter before hand-tightening it. Refill engine oil to the correct level.
3. **Hydraulic Oil Filter:** Locate the hydraulic filter. Remove the old filter, being prepared for some fluid leakage. Install the new filter, ensuring the gasket is properly seated. Check hydraulic fluid level and top up if necessary.
4. **Fuel Filter Water Separator:** Locate the fuel filter. Close the fuel shut-off valve if applicable. Remove the old filter, being careful to contain any fuel spills. Install the new filter, ensuring it is properly sealed. Bleed the fuel system as per your tractor's manual if required.

After replacing any filter, start the tractor and check for leaks. Monitor gauges and warning lights to ensure proper operation.

4. MAINTENANCE AND PERFORMANCE

This HERO® Maintenance Filter Kit is designed to support the routine maintenance schedule of your John Deere 5103 Tractor. Regular filter replacement is a cornerstone of preventative maintenance, directly impacting the performance, efficiency, and lifespan of your equipment.

Benefits of Regular Filter Replacement:

- **Superior Filtration Efficiency:** Engineered with advanced technology, these filters effectively capture and remove contaminants, optimizing machinery performance and minimizing wear.
- **Enhanced Equipment Performance:** Clean filters ensure proper airflow, fuel delivery, and lubrication, leading to efficient operation and preventing costly breakdowns.
- **Durable and Reliable Construction:** Built with high-quality materials to withstand demanding agricultural and industrial conditions, meeting or exceeding industry standards for consistent filtration.
- **Cost-Effective Solution:** Purchasing this complete kit offers cost savings and convenience compared to buying individual filters.

Always adhere to the maintenance intervals recommended in your John Deere 5103 Tractor's owner's manual. Operating with clogged or worn-out filters can lead to reduced fuel efficiency, decreased power, increased emissions, and premature component failure.

5. TROUBLESHOOTING

While filter replacement is a straightforward maintenance task, issues can sometimes arise. Here are some common troubleshooting tips related to filter performance:

- **Reduced Engine Power/Performance:** Check air filters for excessive clogging. Ensure fuel filter is not clogged and fuel system is properly bled.

- **Unusual Engine Noises:** Could indicate issues with oil pressure due to a faulty oil filter or low oil levels.
- **Hydraulic System Malfunctions:** Check hydraulic fluid level and ensure the hydraulic filter is not clogged.
- **Fuel System Issues (e.g., rough idling, stalling):** Inspect the fuel filter water separator for clogs or water accumulation. Ensure proper bleeding of the fuel system after replacement.
- **Leaks After Replacement:** Re-check filter seating and gasket integrity. Ensure filters are tightened to the manufacturer's specifications (refer to tractor manual).

If problems persist after verifying filter installation and fluid levels, consult a qualified technician or your John Deere service center.

6. SPECIFICATIONS

| Attribute | Detail |
|-------------------------------|---|
| Brand | HERO |
| Manufacturer | Maintenance Solutions Unlimited |
| Model (Tractor Compatibility) | John Deere 5103 (TSN -009122) (ESN 106597-) |
| Item Model Number | MSU-JD-0841 |
| ASIN | B0CGGHXRVM |
| UPC | 810146170938 |
| Country of Origin | USA |

7. WARRANTY AND SUPPORT

For specific warranty information regarding your HERO® Maintenance Filter Kit, please refer to the documentation provided with your purchase or contact Maintenance Solutions Unlimited directly. General return policies may apply as per the retailer's terms.

If you have any questions regarding the compatibility, installation, or performance of your filter kit, please contact the manufacturer or your authorized dealer for assistance.

Manufacturer: Maintenance Solutions Unlimited

Website: [Seller Information on Amazon](#) (for contact details)

