John Deere 1002053

John Deere LT170 Maintenance Kit and Highlift Blades Instruction Manual

Model: LT170 (Part Number: 1002053)

Introduction

This instruction manual provides guidance for the proper installation and maintenance of the John Deere Original Equipment Model LT170 Maintenance Kit, which includes Highlift Blades for 38-inch mower decks. This kit is designed to help maintain the performance and longevity of your John Deere LT170 lawn tractor.
It is essential to refer to your original equipment owner's manual for your specific John Deere LT170 model to verify compatibility and for detailed safety procedures and operational instructions not covered in this kit-specific guide.

Safety Information

Always prioritize safety when performing maintenance on your equipment. Failure to follow safety precautions can result in serious injury or damage to the equipment.

- **Read all manuals:** Before beginning any work, thoroughly read this manual and your John Deere LT170 owner's manual.
- **Wear protective gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- **Disconnect spark plug:** Before working on the mower deck or engine, always disconnect the spark plug wire to prevent accidental engine starting.
- **Allow engine to cool:** Ensure the engine and all components are cool to the touch before servicing to avoid burns.
- **Secure the machine:** Use jack stands or other approved methods to securely support the mower deck or tractor when working underneath it. Never rely solely on a jack.
- **Use correct tools:** Use only the correct tools for each task to prevent damage to fasteners and components.
- **Dispose of fluids properly:** Dispose of used oil, fuel, and other fluids according to local environmental regulations.

Kit Contents

The John Deere LT170 Maintenance Kit (Part Number 1002053) includes the following genuine OEM John Deere parts:

- **(1) LG190 Maintenance Kit:** This typically includes engine oil, an oil filter, an air filter, a fuel filter, and spark plugs.
- **(1) AM141041 Highlift Blades:** A set of two highlift blades for a 38-inch mower deck.



Image: Complete John Deere LT170 Maintenance Kit showing engine oil, oil filter, air filter, fuel filter, spark plugs, and highlift blades.

Maintenance Procedures

Perform these maintenance tasks regularly to ensure optimal performance of your John Deere LT170.

1. Highlift Blade Replacement

Replacing worn or damaged blades is crucial for a clean cut and efficient mowing.

1. **Prepare the mower:** Park the tractor on a flat, level surface. Engage the parking brake, disengage the PTO, lower the mower deck, and turn off the engine. Remove the ignition key and disconnect the spark plug wire.
2. **Access the blades:** Carefully raise the front of the mower deck or the entire tractor using a jack and secure it with jack stands. Ensure the deck is stable.
3. **Remove old blades:** Use a block of wood to prevent the blade from turning and a wrench to loosen the blade retaining nut. Remove the nut, washer, and old blade. Note the orientation of the blade for correct installation of the

new one.

4. **Install new blades:** Position the new highlift blade (AM141041) with the cutting edge facing the direction of rotation. Ensure the blade is properly seated on the spindle. Install the washer and retaining nut.
5. **Tighten blades:** Tighten the blade retaining nut to the torque specified in your John Deere LT170 owner's manual.
6. **Repeat for all blades:** Repeat the process for the other blade.
7. **Lower mower:** Carefully lower the mower deck or tractor.



Image: Two John Deere highlift blades, showing their curved design for improved grass lift.



Image: Top view of the John Deere highlift blades, illustrating the star-shaped mounting hole and cutting edges.

2. Engine Oil and Oil Filter Replacement

Regular oil changes are vital for engine health.

1. **Warm up engine:** Run the engine for a few minutes to warm the oil, then shut it off and disconnect the spark plug wire.
2. **Drain oil:** Place a suitable container under the oil drain plug. Remove the drain plug and allow all old oil to drain completely.
3. **Replace oil filter:** Remove the old oil filter (AM125424c) using an oil filter wrench. Apply a thin film of new oil to the gasket of the new filter. Install the new filter and hand-tighten it until the gasket contacts the engine, then tighten an additional 1/2 to 3/4 turn.
4. **Refill oil:** Reinstall the drain plug. Fill the engine with the recommended amount and type of John Deere Turf-Gard SAE 10W-30 4-Cycle Engine Oil (TY22029). Check the dipstick to ensure the oil level is correct.
5. **Check for leaks:** Reconnect the spark plug wire, start the engine, and let it run for a few minutes. Check for any leaks around the filter and drain plug. Shut off the engine and recheck the oil level.





Image: Bottle of John Deere Turf-Gard SAE 10W-30 4-Cycle Engine Oil (946 mL).



Image: Close-up of a John Deere oil filter, part number AM125424c.

3. Air Filter Replacement

A clean air filter ensures proper engine performance and prevents dirt from entering the engine.

1. **Prepare the engine:** Ensure the engine is off and cool. Disconnect the spark plug wire.
2. **Access air filter:** Locate the air filter housing, usually on the side of the engine. Open the clips or remove the screws securing the cover.
3. **Remove old filter:** Carefully remove the old air filter element. Note if there is a pre-filter (foam) and its orientation.
4. **Install new filter:** Install the new air filter element (and pre-filter if applicable) into the housing, ensuring it is seated correctly.
5. **Secure cover:** Reinstall the air filter housing cover and secure it with clips or screws.



Image: A round John Deere air filter with a mesh exterior and paper pleats inside.

4. Spark Plug Replacement

New spark plugs ensure efficient ignition and fuel combustion.

1. **Prepare the engine:** Ensure the engine is off and cool. Disconnect the spark plug wire.
2. **Remove old spark plug:** Use a spark plug wrench to carefully remove the old spark plug.
3. **Inspect and gap new plug:** Check the gap of the new spark plug (included in the kit) using a feeler gauge. Adjust if necessary according to your owner's manual specifications.
4. **Install new spark plug:** Thread the new spark plug into the cylinder head by hand to prevent cross-threading. Once finger-tight, use the spark plug wrench to tighten it to the recommended torque.
5. **Reconnect wire:** Reconnect the spark plug wire securely.



Image: Close-up of a John Deere spark plug, showing the electrode and threads.

5. Fuel Filter Replacement

A clean fuel filter protects the engine from contaminants in the fuel.

1. **Prepare the engine:** Ensure the engine is off and cool. Disconnect the spark plug wire.
2. **Locate fuel filter:** Identify the inline fuel filter, typically located between the fuel tank and the carburetor.
3. **Clamp fuel lines:** Use fuel line clamps on both sides of the filter to prevent fuel leakage.
4. **Remove old filter:** Loosen the clamps securing the fuel lines to the filter and carefully remove the old filter. Be prepared for a small amount of fuel spillage.
5. **Install new filter:** Install the new fuel filter, ensuring the arrow on the filter points in the direction of fuel flow (towards the engine). Reattach the fuel lines and secure them with clamps.
6. **Check for leaks:** Remove the fuel line clamps. Reconnect the spark plug wire. Start the engine and check for any fuel leaks around the new filter.

Operating After Maintenance

After completing all maintenance tasks, ensure all components are securely reinstalled and all safety devices are in place. Reconnect the spark plug wire. Start the engine and allow it to run for a few minutes, checking for any unusual noises, vibrations, or leaks. Refer to your John Deere LT170 owner's manual for specific operating instructions and safety guidelines.

Maintenance Schedule

For a detailed maintenance schedule, always consult your John Deere LT170 owner's manual. General recommendations for these components often include:

- **Engine Oil & Filter:** Every 50 operating hours or annually, whichever comes first.
- **Air Filter:** Every 25 operating hours or annually, more frequently in dusty conditions.
- **Spark Plugs:** Annually or every 100 operating hours.
- **Fuel Filter:** Annually or every 100 operating hours.
- **Mower Blades:** Inspect before each use, sharpen or replace as needed (typically annually or more often depending on use).

Troubleshooting

This maintenance kit addresses common wear items. If you experience issues with your John Deere LT170 after performing maintenance, consider the following general troubleshooting steps:

- **Engine not starting:** Check spark plug connection, fuel level, and ensure the new spark plug is correctly gapped.
- **Poor engine performance:** Verify air filter and fuel filter are clean and installed correctly. Ensure proper oil level.
- **Uneven cut:** Recheck blade installation and ensure blades are tightened to specification. Inspect for bent or damaged blades.
- **Leaks:** Inspect all connections (oil drain plug, oil filter, fuel lines) for proper tightening and sealing.

For more complex issues or if problems persist, refer to the troubleshooting section of your John Deere LT170 owner's manual or contact an authorized John Deere service technician.

Specifications

Feature	Detail
Brand	John Deere
Model Number (Kit)	1002053
Compatible Mower Deck	38-inch Mower Deck (for John Deere LT170)
Highlift Blade Part Number	AM141041
Maintenance Kit Part Number	LG190
Product Dimensions	18 x 16 x 10 inches
Item Weight	13.9 pounds

ASIN	B085P1BJYX

Warranty Information

This product consists of John Deere Original Equipment parts. Warranty coverage for these parts is typically provided by John Deere. Please refer to the warranty information included with your original John Deere LT170 tractor or contact an authorized John Deere dealer for specific warranty terms and conditions applicable to replacement parts.

Support

For technical assistance, questions regarding part compatibility, or service, please contact your authorized John Deere dealer or visit the official John Deere website. Always provide your tractor's model and serial number when seeking support to ensure accurate assistance.
You can find more information and locate a dealer at theJohn Deere Store on Amazon or the official John Deere website.

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