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John Deere GY20852

John Deere OEM High-Lift Mower Blade Kit (Model GY20852) - Installation and Maintenance Guide

1. Introduction

This instruction manual provides essential information for the safe and effective use of your John Deere OEM High-Lift Mower Blade Kit, Model GY20852. These blades are engineered for superior cutting performance, durability, and efficient mulching or bagging of grass clippings. Please read this manual thoroughly before installation and operation to ensure proper usage and to maintain the longevity of your equipment.

2. Safety Information

Always prioritize safety when working with lawnmower blades. Failure to follow safety precautions can result in serious injury.

- **Disconnect Spark Plug:** Before performing any maintenance or blade replacement, always disconnect the spark plug wire to prevent accidental engine startup.
- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection when handling mower blades, as they are sharp and can cause cuts.
- **Secure the Mower:** Ensure the lawnmower is stable and cannot tip over during blade removal or installation. Use appropriate blocking or stands.
- **Inspect Blades Regularly:** Check blades for damage, cracks, or excessive wear before each use. Replace damaged blades immediately.
- **Proper Torque:** Ensure blade bolts are tightened to the manufacturer's specified torque settings to prevent blades from loosening during operation.

3. Product Overview and Features

The John Deere OEM High-Lift Mower Blade Kit (Model GY20852) is designed to deliver a clean and efficient cut for various John Deere lawn tractors. These blades are constructed from a durable alloy steel, combining carbon and boron for enhanced hardness and a long-lasting sharp edge.

Key Features:

- **High-Lift Design:** Creates a strong airflow to lift grass for a precise cut and efficient bagging or mulching.

- **Durable Construction:** Manufactured from premium alloy steel with carbon and boron for superior hardness and extended blade life.
- **OEM Quality:** Original Equipment Manufacturer parts ensure perfect fit and performance for specified John Deere models.
- **Optimized for Mulching:** The blade design facilitates finer grass clipping dispersal when mulching, promoting lawn health.



Figure 1: John Deere High-Lift Mower Blades in original packaging, showing the model number GY20852.



Figure 2: Side profile of a John Deere High-Lift Mower Blade, illustrating the curved high-lift design for enhanced airflow.

4. Compatibility

This John Deere OEM High-Lift Mower Blade Kit (Model GY20852) is compatible with the following John Deere lawn tractor models, typically featuring a 48-inch cutting deck:

- 145, 155C, 160
- D140, D150, D160
- LA130, LA140, LA145, LA155, LA165
- X165 Select Series Tractors

Replaces OEM Part Numbers: GY20852, AM141035, GX21784, GX21786.

5. Setup and Installation

Proper installation of your new mower blades is crucial for safety and optimal performance. Refer to your lawnmower's specific owner's manual for detailed instructions and safety warnings.

General Installation Steps:

1. **Prepare the Mower:** Ensure the mower is turned off, the engine is cool, and the spark plug wire is disconnected to prevent accidental starting.
2. **Access Blades:** Tilt the mower onto its side, ensuring the carburetor side is facing up to prevent fuel leakage. Secure the mower to prevent it from tipping.
3. **Remove Old Blades:** Use a blade lock tool or a block of wood to prevent the blade from turning. Loosen and remove the blade bolt and washer. Carefully remove the old blade.
4. **Clean Deck:** Clean any accumulated grass clippings and debris from the underside of the mower deck.
5. **Install New Blades:** Place the new blade onto the spindle, ensuring the curved side of the blade faces the mower deck. Reinstall the washer and blade bolt.
6. **Tighten Blade Bolt:** Use a torque wrench to tighten the blade bolt to the manufacturer's specified torque setting (refer to your mower's manual).
7. **Final Check:** Once both blades are installed, return the mower to its operating position, reconnect the spark plug wire, and ensure all tools are clear of the mower.

Visual Guide for Blade Installation:

Video 1: This video demonstrates the installation process for mulching mower blades, including securing the mower, removing old blades, and attaching new ones. It highlights the importance of proper orientation and tightening.

Video 2: A detailed video showing the unboxing and installation of Gator Mulching Blades on a push mower. It covers safety steps like spark plug disconnection and using a block to secure the blade during removal and installation.

6. Operating Instructions

With new high-lift blades installed, your John Deere lawn tractor is ready for optimal cutting performance. High-lift blades are particularly effective for:

- **Bagging:** The increased airflow generated by high-lift blades helps to propel grass clippings into the collection bag more efficiently, reducing clumping and improving collection rates.
- **Mulching:** While primarily designed for bagging, the high-lift action also contributes to effective mulching by keeping clippings suspended longer in the deck, allowing them to be cut into finer pieces before falling back onto the lawn.

Always operate your lawnmower according to the manufacturer's instructions provided in your specific mower's owner's manual.

Video 3: This video provides a comparison of different mower blade lift types, including low-lift, medium-lift, and high-lift, demonstrating how each design affects grass cutting and collection.

7. Maintenance

Regular maintenance of your mower blades ensures consistent cutting quality and extends their lifespan.

- **Cleaning:** After each use, clean grass clippings and debris from the blades and the underside of the mower deck. This prevents rust and maintains optimal airflow.
- **Sharpening:** Sharpen blades regularly to maintain a clean cut. Dull blades tear grass, leading to an unhealthy lawn. Use a file or grinder, maintaining the original blade angle. Ensure blades are balanced after sharpening to prevent excessive vibration.
- **Inspection:** Periodically inspect blades for any signs of damage, such as bends, cracks, or excessive wear. Replace blades if they are severely damaged or worn beyond safe limits.
- **Storage:** Store blades in a dry place to prevent rust. If storing for an extended period, apply a light coat of oil to the blades.

8. Troubleshooting

If you experience issues with cutting performance after installing new blades, consider the following:

- **Uneven Cut:** Check if blades are installed correctly with the curved side facing the deck. Ensure blades are not bent or damaged. Verify tire pressure on the mower.
- **Excessive Vibration:** This often indicates an unbalanced blade. Remove and re-balance the blade, or replace it if balancing is not possible. Also, check for loose blade bolts.
- **Poor Bagging/Mulching:** Ensure the mower deck is clean and free of obstructions. Verify that the blades are sharp and correctly installed. Adjust mowing height if grass is too tall.
- **Blades Not Spinning:** Disconnect the spark plug. Inspect the blade spindle and belt for any obstructions or damage.

9. Specifications

Attribute	Detail
Brand	John Deere
Model Number	GY20852
OEM Part Numbers	GY20852, AM141035, GX21784, GX21786
Material	Alloy Steel (Carbon and Boron)
Color	Black
Item Weight	5.9 Pounds
Cutting Width	48 Inches (for compatible decks)
Product Dimensions	1.7"D x 48"W x 48"H (approximate, for a set of blades)
UPC	759936704871

10. Warranty and Support

For warranty information, technical support, or replacement parts, please contact John Deere customer service or visit their official website. Always refer to your original product documentation for specific warranty terms and conditions.

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