

John Deere M149638

John Deere Original Equipment Bushing M149638 Instruction Manual

Model: M149638

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the John Deere Original Equipment Bushing, part number M149638. This bushing is designed as a replacement component, primarily for fuel tank applications in various John Deere equipment models. Adhering to these instructions will help ensure the longevity and correct function of the part.

2. PRODUCT OVERVIEW

The M149638 bushing is an original equipment manufacturer (OEM) part from John Deere. It is a rubber bushing designed to provide a seal and secure fit for components, typically within a fuel tank assembly. Its specific dimensions ensure compatibility with the listed John Deere models.



Figure 2.1: John Deere Original Equipment Bushing M149638. This image shows the reddish-brown rubber bushing with a central hole and a flange, designed for sealing and securing components in a fuel tank.

3. SPECIFICATIONS

Key specifications for the John Deere Original Equipment Bushing M149638 are detailed below:

Feature	Detail
Part Number	M149638
Material	Rubber
Inside Diameter	0.365 inches (9.27 mm)
Outside Diameter	0.571 inches (14.50 mm)
Length	0.606 inches (15.39 mm)
Flange Thickness	0.252 inches (6.40 mm)
Flange Diameter	1.063 inches (27.00 mm)

Feature	Detail
Item Weight	Approximately 1 pound (0.45 kg)

4. COMPATIBLE MODELS

The M149638 bushing is compatible with a wide range of John Deere equipment. Please verify your specific model number against this list to ensure proper fitment. This bushing is known to fit, but is not limited to, the following models:

- 111H, 112L, 108 (190001-), 111 (190001-)
- 1420, 1435, 1445, 1545, 1550, 1565, 1570, 1575, 1580, 1585, 1600, 1620
- 170, 175, 180, 185, 240, 245, 260, 265, 320, 285
- 2500 (GAS AND DIESEL), 2500A (GAS AND DIESEL), 2500B (GAS AND DIESEL), 2500E (Gas and Diesel)
- 2550 E-Cut Riding Greens Mower, 2550 PrecisionCut Riding Greens Mower
- 2653, 2653A, 2653B, 325, 335
- 4X2 HPX and 4X4 HPX (Diesel) Gator Utility Vehicle, G100
- GT225, GT242, GT262, GT275, GX255, GX325, GX335, GX345, GX355
- LX172, LX173, LX176, LX178, LX186, LX188, LX255, LX266, LX277, LX279, LX280, LX288, LX289
- M653, M655, M665
- TH 6X4 Gator Utility Vehicle (Gas), TS 4X2 Gator Utility Vehicle (-070000)
- XUV850D, XUV855D (-060000), XUV855D S4 (-060000)
- Z510A, Z520A, Z710A (-020000), Z720A (-020000), Z810A, Z820A, Z830A, Z840A, Z850A, Z860A
- Z910A (-020000), Z920A (-020000), Z925A (-020000), Z930A (-020000), Z950A (-020000), Z960A (-020000), Z970A (-020000), Z997R

Note: Always consult your equipment's specific service manual for the most accurate and detailed parts information.

5. INSTALLATION

Proper installation is crucial for the bushing's performance and to prevent leaks, especially in fuel tank applications. Follow these general steps:

1. **Safety First:** Ensure the equipment is turned off, cooled down, and disconnected from any power source. If working with fuel tanks, ensure proper ventilation and take precautions against spills and fire hazards.
2. **Access the Area:** Depending on your equipment model, you may need to disassemble surrounding components to gain access to the fuel tank or the area where the bushing is to be installed. Refer to your equipment's service manual for specific disassembly instructions.
3. **Remove Old Bushing (if applicable):** Carefully remove the old or damaged bushing. Inspect the surrounding area for any damage or debris.
4. **Clean the Surface:** Thoroughly clean the mounting surface where the new bushing will be seated. Ensure it is free from dirt, old sealant, and fuel residue. A clean surface is essential for a proper seal.
5. **Prepare the New Bushing:** For easier installation and to prevent damage, it is recommended to apply a small amount of lubricant, such as silicone grease or a compatible oil, to the outer surface of the new M149638 bushing.

6. **Install the Bushing:** Carefully insert the bushing into its designated opening. Apply firm, even pressure to ensure it is fully seated. The flange should sit flush against the surface.
7. **Install Associated Components:** Once the bushing is in place, install the fuel pickup tube or other associated components into the bushing. Again, a small amount of lubricant on the component being inserted can aid in seating and prevent damage to the bushing. Ensure the component is fully seated within the bushing.
8. **Reassemble and Test:** Reassemble any components that were removed. After reassembly, perform a leak test if applicable, especially for fuel tank installations, before operating the equipment.

Caution: *Incorrect installation can lead to fuel leaks, equipment malfunction, or safety hazards. If you are unsure about any step, consult a qualified service technician.*

6. OPERATING CONSIDERATIONS

As a static component, the M149638 bushing does not have "operating" instructions in the traditional sense. Its function is passive: to provide a secure, sealed passage for a fuel line or other component through a tank wall. Once correctly installed, it should function without direct user interaction during equipment operation. Ensure that no external forces or abrasions compromise the bushing's integrity during equipment use.

7. MAINTENANCE

To ensure the long-term performance and integrity of the M149638 bushing, consider the following maintenance guidelines:

- **Regular Inspection:** Periodically inspect the bushing and the surrounding area for any signs of wear, cracking, hardening, or fuel leaks. This is especially important for fuel tank applications.
- **Cleanliness:** Keep the area around the bushing clean and free of debris, dirt, and corrosive chemicals that could degrade the rubber material.
- **Avoid Harsh Chemicals:** Do not use harsh solvents or petroleum-based cleaners directly on the rubber bushing, as these can cause material degradation over time. Use mild soap and water if cleaning is necessary.
- **Replacement:** If any signs of damage or leakage are observed, replace the bushing immediately with a genuine John Deere M149638 part to prevent further issues.

8. TROUBLESHOOTING

If you encounter issues related to the M149638 bushing, consider the following:

- **Fuel Leakage:**
 - **Cause:** Improper installation, damaged bushing, or degraded material.
 - **Solution:** Re-inspect the installation to ensure the bushing is fully seated and the mating surfaces are clean. If the bushing appears damaged (cracked, hardened), replace it. Ensure the fuel pickup tube or component inserted into the bushing is also correctly seated and not damaged.
- **Loose Fit:**
 - **Cause:** Incorrect part, worn bushing, or damaged mounting hole.
 - **Solution:** Verify that M149638 is the correct part number for your application. If the bushing is

worn, replace it. If the mounting hole in the tank is damaged or enlarged, professional repair or tank replacement may be necessary.

For persistent issues or complex repairs, it is recommended to contact an authorized John Deere service center.

9. WARRANTY AND SUPPORT

John Deere Original Equipment parts are manufactured to high standards. For specific warranty information regarding the M149638 bushing, please refer to the warranty documentation provided with your purchase or contact an authorized John Deere dealer. For technical support or assistance, please visit the official John Deere website or contact their customer service department.

John Deere Official Website: www.deere.com