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## John Deere GY21070

# John Deere Tire And Wheel Assembly GY21070

Instruction Manual

## Introduction

This manual provides essential information for the proper installation, use, and maintenance of your John Deere Tire And Wheel Assembly, model GY21070. This assembly is designed as a non-powered wheel replacement part for compatible John Deere tractors. Please read these instructions carefully before proceeding with installation or use to ensure safety and optimal performance.

## Safety Information

Always prioritize safety when working with machinery and replacement parts. Failure to follow safety guidelines can result in injury or damage to equipment.

- Ensure the tractor is turned off, the engine is cool, and the parking brake is engaged before beginning any work.
- Use appropriate personal protective equipment (PPE), including gloves and eye protection.
- Support the tractor securely with jack stands after lifting; never rely solely on a jack.
- Handle the tire and wheel assembly carefully to avoid pinching or crushing injuries.
- Verify that the replacement part is correct for your specific tractor model before installation.

## Setup and Installation

Follow these steps for safe and correct installation of the tire and wheel assembly.

### Tools Required:

- Jack and Jack Stands
- Lug Wrench or Socket Set
- Torque Wrench (recommended)
- Wheel Chocks

### Installation Steps:

1. **Prepare the Tractor:** Park the tractor on a flat, stable surface. Engage the parking brake and place wheel chocks on the wheels that will remain on the ground to prevent movement.

2. **Loosen Lug Nuts:** Using a lug wrench, slightly loosen the lug nuts on the wheel to be replaced while the wheel is still on the ground. Do not remove them completely.
3. **Lift the Tractor:** Place a jack under the tractor's frame near the wheel to be replaced. Lift the tractor until the wheel is clear of the ground. Place jack stands securely under the frame to support the tractor. Lower the jack slightly until the tractor rests firmly on the jack stands.
4. **Remove Old Wheel:** Completely remove the loosened lug nuts and carefully pull the old wheel and tire assembly off the hub.
5. **Install New Wheel:** Align the new John Deere GY21070 Tire And Wheel Assembly with the wheel studs on the hub. Carefully slide the new assembly onto the studs.
6. **Hand-Tighten Lug Nuts:** Thread the lug nuts onto the studs by hand. Ensure they are seated correctly and not cross-threaded.
7. **Lower Tractor:** Raise the tractor slightly with the jack to remove the jack stands. Slowly lower the tractor until the wheel is on the ground, but the full weight is not yet applied.
8. **Torque Lug Nuts:** Tighten the lug nuts in a star pattern to the manufacturer's specified torque. Refer to your tractor's owner's manual for the correct torque specifications.
9. **Final Lowering:** Fully lower the tractor and remove the jack. Remove the wheel chocks.




**Image:** John Deere GY21070 Tire and Wheel Assembly. This image shows the complete tire and wheel assembly, ready for installation on a tractor.

## Operating Considerations

As a non-powered wheel, the GY21070 assembly requires minimal operational considerations beyond proper installation. However, regular checks are important for safety and longevity.

- **Pre-Operation Check:** Before each use of the tractor, visually inspect the tire for any signs of damage, punctures, or excessive wear.
- **Tire Pressure:** Ensure the tire is inflated to the pressure recommended in your tractor's owner's manual. Incorrect tire pressure can affect handling, traction, and tire lifespan.
- **Lug Nut Tightness:** Periodically check that all lug nuts remain securely tightened, especially after the first few hours of operation following installation.

## Maintenance

Regular maintenance will extend the life of your tire and wheel assembly and ensure safe operation.

- **Tire Pressure:** Check tire pressure monthly, or more frequently during significant temperature changes. Adjust to the recommended PSI.
- **Visual Inspection:** Regularly inspect the tire for cuts, cracks, bulges, or embedded objects. Check the wheel for bends, cracks, or corrosion.
- **Cleaning:** Clean the tire and wheel assembly as needed to remove dirt, mud, and debris. Avoid using harsh chemicals that could damage the rubber or wheel finish.
- **Storage:** If the tractor is stored for extended periods, ensure the tires are properly inflated and, if possible, store in a cool, dry place away from direct sunlight.

## Troubleshooting

This section addresses common issues you might encounter with your tire and wheel assembly.

- **Low Tire Pressure:** Check for punctures or valve stem leaks. If no obvious leak is found, reinflate to the correct PSI. If pressure loss persists, professional inspection may be required.
- **Uneven Tire Wear:** This can indicate improper tire pressure, misalignment, or worn suspension components on the tractor. Consult your tractor's service manual or a qualified technician.
- **Vibration or Wobble:** Ensure lug nuts are properly torqued. If vibration persists, the wheel may be bent or the tire damaged. Seek professional assistance.
- **Visible Damage (Cuts, Cracks):** Small punctures might be repairable, but significant cuts, bulges, or sidewall damage usually require tire replacement. A damaged wheel should also be replaced.

## Specifications

Key specifications for the John Deere Tire And Wheel Assembly GY21070:

| Feature | Specification |
|---|---|
| Model Number | GY21070 |
| Brand | John Deere |
| Material | Rubber |
| Item Weight | 2 Pounds |
| Vehicle Service Type | Tractor |
| Color | Black |
| Manufacturer | John Deere |
| Compatible with Vehicle Type | Tractor |

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