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John Deere GX21582

John Deere Original Equipment Spring #GX21582 Instruction Manual

Model: GX21582

1. Introduction

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of the John Deere Original Equipment Spring, part number GX21582. This spring is designed as a direct replacement part for various John Deere riding mower models, ensuring optimal performance and fit.

2. Safety Information

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

- Ensure the equipment is turned off, the engine is cool, and the spark plug wire is disconnected before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Use proper tools for installation and removal.
- If unsure about any procedure, consult a qualified technician or refer to your specific mower's service manual.

3. Product Overview

The John Deere Original Equipment Spring GX21582 is a high-quality, durable spring manufactured to exact specifications for John Deere riding mowers. It plays a crucial role in various mechanisms, often providing tension or recoil for components such as deck lift systems, brake linkages, or throttle controls, depending on the specific mower model and application.



Figure 3.1: Main view of the John Deere Original Equipment Spring GX21582. This image shows the full length of the black coiled spring with its two hooked ends.

4. Setup and Installation

This spring is compatible with the following John Deere riding mower models:

- 145, 155C, 190C
- D140, D150, D155, D160, D170
- E140, E150, E160, E170, E180
- G110
- L120, L130
- LA130, LA140, LA145, LA150, LA155, LA165, LA175
- X140, X165, X166

Installation Steps (General):

1. **Prepare the Equipment:** Ensure the mower is on a flat, stable surface. Turn off the engine, remove the

ignition key, and disconnect the spark plug wire to prevent accidental starting.

2. **Locate the Old Spring:** Identify the spring that needs replacement. Note its exact position and how it connects to the components. Taking a photo before removal can be helpful.
3. **Remove the Old Spring:** Carefully unhook the old spring using appropriate tools (e.g., spring puller, pliers). Be cautious as springs can release tension suddenly.
4. **Install the New Spring:** Hook one end of the new GX21582 spring to its designated anchor point. Then, using a spring puller or strong pliers, stretch the spring and attach the other end to its corresponding connection point. Ensure it is securely seated.
5. **Verify Installation:** Gently test the mechanism the spring is connected to to ensure it operates smoothly and the spring provides the correct tension.
6. **Reconnect and Test:** Reconnect the spark plug wire. Start the mower and perform a functional test in a safe area, observing the operation of the component the spring affects.



Figure 4.1: Close-up view of one hooked end of the spring. This image highlights the precise bending and finish of the spring's attachment point.

5. Operating Principles

The GX21582 spring functions by storing and releasing mechanical energy. When a component moves, stretching the spring, it stores potential energy. When the force is removed, the spring contracts, releasing this energy to return the component to its original position or to apply tension. This is critical for the proper functioning of various mower systems, including maintaining belt tension, assisting with deck height adjustments, or ensuring proper engagement/disengagement of controls.

6. Maintenance

While the GX21582 spring is a durable component, regular inspection can prolong its lifespan and ensure continued safe operation of your equipment.

- **Visual Inspection:** Periodically inspect the spring for signs of wear, corrosion, stretching, or breakage. Look for any deformation in the coils or hooks.
- **Cleanliness:** Keep the spring and surrounding area free from dirt, debris, and grass clippings, which can impede its movement or accelerate wear.
- **Lubrication:** In some applications, a light coating of grease or lubricant on the spring's contact points can reduce friction and wear. Consult your mower's specific service manual for lubrication recommendations.
- **Replacement:** Replace the spring immediately if any signs of damage or excessive wear are observed. A failing spring can lead to improper equipment function or safety hazards.



Figure 6.1: Detailed view of the coiled section of the spring. This image shows the consistent winding and black finish of the spring's main body.

7. Troubleshooting

If you experience issues related to a spring, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Component not returning to position	Spring is stretched or broken.	Inspect spring for damage; replace if necessary.
Excessive play or looseness in mechanism	Spring has lost tension or is improperly installed.	Verify spring installation; replace if tension is weak.
Unusual noises (e.g., squeaking)	Lack of lubrication or friction at contact points.	Clean and lubricate spring contact points.

Problem	Possible Cause	Solution
Spring repeatedly breaking	Incorrect spring type, excessive load, or underlying mechanical issue.	Ensure correct part number (GX21582); inspect associated components for binding or misalignment.



Figure 7.1: Angled view of the spring, showing the transition from the coil to the hook. This perspective helps in understanding the spring's overall shape and design.

8. Specifications

Key specifications for the John Deere Original Equipment Spring GX21582:

Specification	Value
Product Dimensions	16 x 10 x 1 inches
Item Weight	1 pounds
Manufacturer	John Deere
ASIN	B00BWAF7QE
Item Model Number	GX21582
Discontinued By Manufacturer	No



Figure 8.1: Another angled view of the spring, providing a different perspective on its form and the quality of its construction.

9. Warranty Information

As an Original Equipment (OE) part, the John Deere Spring GX21582 is covered by John Deere's standard warranty for genuine replacement parts. For specific details regarding warranty terms, duration, and claim procedures, please refer to the official John Deere warranty documentation provided with your product or visit the official John Deere website. Keep your purchase receipt as proof of purchase.

10. Customer Support

For further assistance, technical support, or inquiries regarding the John Deere Original Equipment Spring GX21582, please contact John Deere customer service or visit their official support channels. You can typically find contact information on the John Deere website or in your mower's owner's manual.

John Deere Official Website: www.deere.com

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