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Briggs & Stratton 693408

Briggs & Stratton 693408 Mechanical Governor Spring/Link Replacement Part Instruction Manual

Model: 693408

Overview Installation Operating Principles Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Briggs & Stratton 693408 Mechanical Governor Spring/Link is a genuine OEM replacement part designed to maintain the optimal performance of your outdoor power equipment. This component plays a crucial role in the engine's governor system, which regulates engine speed under varying loads.

Using genuine Briggs & Stratton parts ensures compatibility, durability, and adherence to original equipment manufacturer (OEM) standards. This helps in keeping your engine running efficiently and in compliance with applicable emission regulations.



Figure 1: The Briggs & Stratton 693408 Mechanical Governor Spring/Link. This image displays the complete assembly of the governor spring and link, which is a critical component for engine speed regulation in Briggs & Stratton outdoor power equipment.

2. Installation Guide

This section provides general guidance for the installation of the Briggs & Stratton 693408 Mechanical Governor Spring/Link. Due to the variety of engine models and configurations, specific steps may vary. Always refer to your specific engine's service manual for detailed instructions and safety precautions.

2.1 Safety Precautions

- Ensure the engine is turned off and cool before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Work in a well-ventilated area.

2.2 Required Tools

- Appropriate wrenches or sockets
- Pliers (needle-nose may be useful)
- Service manual for your specific engine model

2.3 Installation Steps (General)

1. **Access the Governor Assembly:** Depending on your engine model, you may need to remove air filters, shrouds, or other components to gain access to the governor spring and link assembly. Consult your engine's service manual for exact disassembly procedures.
2. **Note Existing Connections:** Before removing the old spring/link, carefully observe and note how it is connected to the governor arm and carburetor linkage. Taking a photograph can be helpful.
3. **Remove Old Component:** Carefully detach the old governor spring/link from its connection points. Be mindful of any tension in the spring.
4. **Install New Component:** Attach the new Briggs & Stratton 693408 Mechanical Governor Spring/Link in the exact same manner as the old one. Ensure it is securely fastened at both ends. The spring should be properly seated and provide the necessary tension.
5. **Reassemble:** Reinstall any components that were removed to access the governor assembly (e.g., shrouds, air filter).
6. **Reconnect Spark Plug:** Once all components are reassembled, reconnect the spark plug wire.
7. **Test Operation:** Start the engine and observe its operation. The engine should maintain a consistent speed and respond appropriately to throttle changes. If the engine runs erratically or at incorrect speeds, shut it off immediately and re-check the installation.

3. Operating Principles (Governor System)

The mechanical governor system, which includes the governor spring and link, is designed to maintain a desired engine speed regardless of the load applied to the engine. It does this by adjusting the throttle opening on the carburetor.

3.1 How it Works

- When the engine speed decreases due to an increased load, the governor weights (internal to the engine) move inward, which in turn moves the governor arm.
- This movement of the governor arm pulls on the governor link and spring, opening the carburetor throttle plate further to allow more fuel and air into the engine, thereby increasing engine speed.
- Conversely, when the engine speed increases beyond the set point (e.g., when the load is removed), the governor weights move outward, causing the governor arm to move in the opposite direction.
- This action reduces the throttle opening, decreasing fuel and air flow, and bringing the engine speed back down to the desired level.

The governor spring provides the necessary tension to counteract the force of the governor weights, allowing for precise speed regulation.

4. Maintenance

The Briggs & Stratton 693408 Mechanical Governor Spring/Link is a durable component, but regular inspection is recommended as part of your engine's overall maintenance schedule.

4.1 Inspection

- **Visual Check:** Periodically inspect the spring and link for signs of wear, stretching, corrosion, or damage.
- **Tension Check:** Ensure the spring maintains proper tension. A stretched or weakened spring can lead to erratic engine speed or "hunting" (fluctuating RPMs).
- **Connection Points:** Verify that the link and spring are securely attached at their connection points and that there is no excessive play.

4.2 Replacement

Replace the governor spring/link if any signs of damage, stretching, or corrosion are observed. A faulty governor spring/link can lead to poor engine performance, including:

- Engine "hunting" or surging
- Inconsistent engine speed under load
- Engine running too fast or too slow

Always use genuine Briggs & Stratton replacement parts to ensure proper fit and function.

5. Troubleshooting Common Issues

If you experience issues related to engine speed or governor function after installing or inspecting the governor spring/link, consider the following:

Symptom	Possible Cause	Solution
Engine "hunting" or surging	Stretched or weak governor spring; incorrect governor adjustment; carburetor issues.	Replace governor spring (693408); consult service manual for governor adjustment; inspect/clean carburetor.
Engine runs too fast/slow	Incorrect governor adjustment; damaged governor spring/link; throttle linkage issues.	Consult service manual for governor adjustment; replace governor spring/link (693408); check throttle linkage for binding.
Engine does not respond to throttle changes	Disconnected or broken governor link/spring; seized governor arm; throttle cable issues.	Inspect and reattach/replace governor link/spring (693408); check governor arm for free movement; inspect throttle cable.

For complex issues or if you are unsure about any repair, it is recommended to consult a certified Briggs & Stratton service technician.

6. Product Specifications

- **Part Number:** 693408
- **Type:** Mechanical Governor Spring/Link
- **Manufacturer:** Briggs & Stratton

- **Compatibility:** Designed for various Briggs & Stratton engines. Refer to your engine's parts manual for specific compatibility.
- **Material:** Metal (Spring and Link)
- **Dimensions:** Approximately 0.12 x 6.25 x 6.63 inches (0.3 x 15.9 x 16.8 cm)
- **Weight:** Approximately 0.8 ounces (22.7 grams)
- **Condition:** New OEM Part

7. Warranty and Support

7.1 Warranty Information

Genuine Briggs & Stratton replacement parts typically come with a limited warranty against defects in material and workmanship. The specific warranty period and terms may vary. Please retain your proof of purchase. For detailed warranty information, refer to the official Briggs & Stratton website or contact their customer service.

7.2 Customer Support

For technical assistance, parts inquiries, or warranty claims, please contact Briggs & Stratton customer support directly. You can find contact information and additional resources on their official website:

Visit Briggs & Stratton Official Website

When contacting support, please have your engine model number and the part number (693408) readily available.

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