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› Briggs & Stratton 691760 Valve Retainer Instruction Manual

## Briggs & Stratton 691760

# Briggs & Stratton 691760 Valve Retainer Instruction Manual

Model: 691760

## 1. INTRODUCTION

This instruction manual provides essential information for the proper handling, installation, and understanding of the **Briggs & Stratton 691760 Valve Retainer**. This component is a genuine OEM replacement part designed to ensure optimal performance and compliance with emission regulations for Briggs & Stratton engines. Please read this manual thoroughly before attempting any installation or maintenance.

## 2. SAFETY INFORMATION

Always prioritize safety when working with engine components. Failure to follow safety precautions can result in serious injury or damage to equipment.

- Ensure the engine is **turned off and cooled down** before beginning any work.
- Disconnect the spark plug wire to prevent accidental starting.
- Wear appropriate **personal protective equipment (PPE)**, including safety glasses and gloves.
- If you are unsure about any step, consult a qualified service technician or refer to the specific engine's service manual.
- Keep children and pets away from the work area.

## 3. PRODUCT OVERVIEW

The Briggs & Stratton 691760 Valve Retainer is a critical component in the engine's valve train system. Its primary function is to secure the valve spring to the valve stem, ensuring proper valve operation and sealing within the combustion chamber. This genuine part is manufactured to exact OEM standards for reliable performance.

This part replaces old Briggs & Stratton part numbers: **225257, 23184, and 555147**.



*Image 1: Briggs & Stratton 691760 Valve Retainer. This image shows the small, plastic component designed to secure a valve spring to a valve stem in an engine.*

## 4. SETUP AND INSTALLATION

Installation of the valve retainer requires specific tools and knowledge of engine mechanics. It is highly recommended to consult your engine's specific service manual for detailed, step-by-step instructions and torque specifications. The following is a general overview and not a substitute for the official service manual.

### General Installation Steps:

1. **Preparation:** Ensure the engine is cool, spark plug wire is disconnected, and the cylinder head (if removed) is on a clean workbench.
2. **Valve Spring Compression:** Use a suitable valve spring compressor tool to compress the valve spring, exposing the valve stem and the area where the retainer sits.
3. **Remove Old Retainer (if applicable):** Carefully remove the old valve retainer and any associated components (e.g., valve keepers) once the spring is compressed.
4. **Install New Retainer:** Position the new Briggs & Stratton 691760 Valve Retainer onto the valve stem, ensuring it correctly engages with the valve keepers (if separate) and the valve spring.
5. **Release Spring Compressor:** Slowly and carefully release the valve spring compressor, ensuring the retainer and keepers seat properly in the valve stem groove. Verify that the retainer is securely holding the spring.
6. **Reassembly:** Reassemble any other engine components that were removed during the process, following the engine's service manual for proper procedures and torque values.

**Note:** *Incorrect installation can lead to engine damage. If you are not confident in performing this procedure, seek professional assistance.*

## 5. OPERATING PRINCIPLES

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The valve retainer itself does not "operate" in the traditional sense but is a static component crucial for the proper operation of the engine's valves. Once installed, it works in conjunction with the valve spring and valve keepers to:

- **Secure Valve Spring:** It holds the valve spring in its compressed state, allowing it to exert force on the valve.
- **Maintain Valve Position:** It ensures the valve remains correctly positioned on the valve stem, allowing the camshaft to open and close the valve precisely.
- **Prevent Valve Drop:** A properly installed retainer prevents the valve from dropping into the cylinder, which would cause catastrophic engine damage.

The integrity of the valve retainer is vital for the engine's overall performance and longevity.

## 6. MAINTENANCE

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The Briggs & Stratton 691760 Valve Retainer is a replacement part and is not designed for routine maintenance or repair. Its lifespan is typically long, but it can be subject to wear or damage under extreme conditions or if other valve train components fail.

- **Inspection:** During any engine overhaul or valve train service, inspect the valve retainers for signs of wear, cracks, or deformation. Replace if any damage is observed.
- **Replacement:** If a valve retainer is found to be faulty, it should be replaced with a genuine Briggs & Stratton part like the 691760 to ensure compatibility and performance.
- **Engine Maintenance:** Regular engine oil changes and adherence to the engine manufacturer's recommended service schedule will help prolong the life of all internal engine components, including valve retainers.

## 7. TROUBLESHOOTING

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A faulty valve retainer can contribute to various engine performance issues. However, symptoms are often indicative of broader valve train problems rather than just the retainer itself. If you suspect an issue with your engine's valve train, consider the following:

- **Engine Misfires or Rough Running:** Can be caused by improper valve seating due to a damaged retainer or spring.
- **Unusual Engine Noises:** Ticking or clattering sounds from the valve cover area might indicate loose or damaged valve train components, including retainers.
- **Loss of Compression:** If a valve is not closing properly due to a retainer issue, compression will be lost in that cylinder.
- **Visible Damage:** During inspection, look for any visible cracks, bends, or excessive wear on the retainer.

**Recommendation:** Diagnosing valve train issues typically requires specialized tools and expertise. It is strongly advised to have a qualified mechanic inspect and repair any suspected valve train problems.

## 8. SPECIFICATIONS

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Key specifications for the Briggs & Stratton 691760 Valve Retainer:

Attribute	Value
Model Number	691760
Brand	Briggs & Stratton
Material	Plastic
Item Dimensions (L x W x H)	4 x 4 x 0.25 inches
Item Weight	0.01 Ounces
Replaces Part Numbers	225257, 23184, 555147
GTIN / UPC	024847248890

## 9. WARRANTY AND SUPPORT

As a genuine Briggs & Stratton part, the 691760 Valve Retainer is covered by the standard Briggs & Stratton warranty for replacement parts. Specific warranty terms and conditions may vary. Please retain your proof of purchase.

For detailed warranty information, technical support, or to locate an authorized service dealer, please visit the official Briggs & Stratton website or contact their customer service department. Using genuine parts ensures your engine complies with applicable emission regulations and maintains its original performance specifications.

Official Briggs & Stratton Website: [www.briggsandstratton.com](http://www.briggsandstratton.com)