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Briggs & Stratton 27828S

Briggs & Stratton 27828S Intake Gasket User Manual

Model: 27828S | Brand: Briggs & Stratton

1. Product Overview

The Briggs & Stratton 27828S Intake Gasket is a genuine replacement part designed to maintain the peak performance of outdoor power equipment. This gasket is crucial for ensuring a proper seal in the engine's intake system, preventing air leaks that can affect engine operation and efficiency. It is manufactured to exact OEM standards, ensuring compatibility and optimal performance with Briggs & Stratton engines, particularly for most 7 & 8 Gross HP Horizontal Briggs & Stratton Engines.
Key features include:

- Genuine Briggs & Stratton Intake Gasket.
- Directly replaces old Briggs part numbers 27828 and 27828S.
- Engineered for most 7 & 8 Gross HP Horizontal Briggs & Stratton Engines.
- Ensures compliance with applicable EPA emission regulations when installed correctly.



Image 1.1: Close-up view of the Briggs & Stratton 27828S Intake Gasket. This gasket is a flat, grey, diamond-shaped component with a large central circular opening and two smaller circular bolt holes on either side, designed to create a seal in an engine's intake system.

2. Installation Guide

Proper installation of the intake gasket is critical for engine performance and longevity. Always refer to your specific engine's service manual for detailed, model-specific instructions. The following steps provide a general overview for replacing an intake gasket.

2.1 Safety Precautions

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

2.2 Required Tools

- Socket wrench set or appropriate wrenches
- Screwdriver set
- Gasket scraper or plastic razor blade (for old gasket removal)
- Clean rags

2.3 Installation Steps

1. **Prepare the Engine:** Ensure the engine is off and cool. Disconnect the spark plug wire.
2. **Locate and Remove Components:** Identify the carburetor and intake manifold. Carefully remove any air filter housing, shrouds, or other components that obstruct access to the intake gasket.
3. **Remove Old Gasket:** Loosen and remove the bolts or nuts securing the carburetor and intake manifold. Carefully separate the components. Remove the old gasket. Use a gasket scraper or plastic razor blade to gently clean any remaining gasket material from the mating surfaces. Ensure surfaces are smooth and free of debris.
4. **Install New Gasket:** Position the new Briggs & Stratton 27828S intake gasket onto the clean mating surface, ensuring the bolt holes align correctly.
5. **Reassemble Components:** Carefully reattach the carburetor and intake manifold, ensuring they are properly seated against the new gasket. Insert and hand-tighten the bolts or nuts.
6. **Tighten Fasteners:** Tighten the bolts or nuts evenly and gradually in a crisscross pattern to the manufacturer's specified torque settings. Overtightening can damage the gasket or components.
7. **Final Checks:** Reattach any removed shrouds, air filter housing, and the spark plug wire. Double-check all connections and ensure no tools or debris are left near moving parts.

3. Function and Operation

The intake gasket plays a vital role in the internal combustion engine by creating a sealed pathway for the air-fuel mixture to travel from the carburetor (or fuel injection system) to the engine's combustion chamber. Specifically, the Briggs & Stratton 27828S intake gasket ensures a tight seal between the carburetor and the engine's intake manifold. Without a proper seal, unmetered air can enter the engine, leading to a "lean" air-fuel mixture. This can cause various operational issues, including:

- Rough idling
- Stalling
- Loss of power
- Difficulty starting

- Increased fuel consumption
- Potential engine damage due to overheating or improper combustion.

By maintaining an airtight seal, the gasket ensures that the engine receives the correct air-fuel ratio, allowing for efficient combustion and optimal engine performance.

4. Maintenance and Care

While the intake gasket itself does not require routine maintenance, its condition is integral to overall engine health. It is recommended to inspect the intake gasket whenever other engine components in its vicinity are serviced, such as the carburetor or intake manifold.
Consider replacing the intake gasket:

- Whenever the carburetor or intake manifold is removed for service or cleaning. Gaskets are typically single-use items and can be damaged during removal.
- If signs of wear, cracking, or deterioration are observed.
- If troubleshooting indicates a potential air leak in the intake system.

Using genuine Briggs & Stratton replacement parts, like the 27828S gasket, ensures proper fit and material quality, contributing to the longevity and reliability of your engine.

5. Troubleshooting

If your engine exhibits symptoms such as rough idling, stalling, loss of power, or difficulty starting, an air leak at the intake gasket could be a contributing factor. Here are some troubleshooting steps related to the intake gasket:

5.1 Symptoms of a Faulty Intake Gasket

- **Engine Surging or Hunting:** The engine RPM fluctuates erratically, often described as "hunting" for a steady speed.
- **Rough Idle:** The engine runs unevenly at idle speed.
- **Stalling:** The engine dies unexpectedly, especially when coming to a stop or at idle.
- **Difficulty Starting:** The engine may crank but struggle to start, or require excessive cranking.
- **Loss of Power:** The engine may not produce its usual power output under load.
- **Increased Fuel Consumption:** A lean condition can sometimes lead to the engine trying to compensate by using more fuel.

5.2 Inspection and Diagnosis

1. **Visual Inspection:** With the engine off and cool, visually inspect the area around the intake gasket for any visible cracks, tears, or signs of deterioration. Look for fuel residue or dirt accumulation that might indicate a leak.
2. **Listen for Hissing:** With the engine running (if it can), carefully listen for a distinct hissing sound around the carburetor-to-engine mating surface, which can indicate an air leak.
3. **Spray Test (Use Caution):** While the engine is idling, carefully spray a small amount of carburetor cleaner or unlit propane gas around the intake gasket area. If the engine RPM changes (either increases or decreases), it indicates that the cleaner/gas is being drawn into the engine through a leak, confirming a faulty gasket. **Exercise extreme caution and ensure proper ventilation when performing this test. Avoid spraying on hot exhaust components.**
4. **Check Fastener Torque:** Ensure that the bolts or nuts securing the carburetor and intake manifold are tightened to the correct specifications. Loose fasteners can cause leaks.

If an intake gasket leak is confirmed, replacement with a genuine Briggs & Stratton 27828S gasket is recommended to restore proper engine function.

6. Specifications

Attribute	Detail
Brand	Briggs & Stratton
Model Number	27828S
Replaces Old Part Numbers	27828
Material	Plastic (Note: Gaskets are often composite materials, "Plastic" might be a general classification)
Color	Multi
UPC	024847238655
Manufacturer	Briggs & Stratton
Unit Count	1.0 Count
Product Dimensions	1 x 7 x 8 inches
Item Weight	0.32 ounces
ASIN	B005F6QTUE
Compatibility	Most 7 & 8 Gross HP Horizontal Briggs & Stratton Engines

7. Support and Further Information

For additional support, detailed engine diagrams, or to explore other genuine Briggs & Stratton parts and accessories, please visit the official Briggs & Stratton store or contact their customer service.
Official Brand Store: Briggs & Stratton Store on Amazon
Always ensure you are using genuine Briggs & Stratton parts to maintain the integrity and performance of your equipment and to comply with emission regulations.

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