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Briggs & Stratton 84003327

Briggs & Stratton Model 84003327 Ignition Tester User Manual

For use with Briggs & Stratton and other small engine ignition systems.

1. Introduction

The Briggs & Stratton Model 84003327 Ignition Tester is a diagnostic tool designed to quickly and easily determine if an engine's ignition system is producing a spark. This tool helps identify issues with spark plugs, ignition coils, or related components in small engines, ensuring efficient troubleshooting and maintenance of outdoor power equipment.

2. Safety Information

Always observe the following safety precautions when using the ignition tester:

- **High Voltage Hazard:** Ignition systems produce high voltage. Avoid direct contact with the tester, spark plug, or spark plug wire during operation to prevent electrical shock.
- **Eye Protection:** Always wear appropriate eye protection, such as safety glasses, to protect against potential sparks or debris.
- **Engine Off:** Ensure the engine is completely off and cool before connecting or disconnecting the ignition tester.
- **Ventilation:** Use the tester in a well-ventilated area to avoid inhaling exhaust fumes if the engine is briefly cranked.
- **Keep Clear:** Keep hands, clothing, and tools clear of moving engine parts when cranking the engine.
- **Not for Running Engines:** This tool is for diagnostic testing during engine cranking, not for continuous use on a running engine.

3. Package Contents

- 1 x Briggs & Stratton Ignition Tester (Model 84003327)

4. Product Overview

The Briggs & Stratton Ignition Tester is a simple, inline device. It consists of a main body with a transparent viewing window, a probe that connects to the spark plug, and a wire with an alligator clip for grounding.



Figure 1: Briggs & Stratton Model 84003327 Ignition Tester. This image shows the complete ignition tester, including the main body with its transparent spark viewing window, the metal probe for connecting to the spark plug, and the attached ground wire with an alligator clip.

When connected between the spark plug wire and the spark plug, the tester allows for visual confirmation of the ignition spark within its viewing window. A strong, consistent spark indicates a healthy ignition system up to that point.

5. Setup

Before using the ignition tester, ensure the engine is completely off, cool, and the spark plug wire is easily accessible. No special tools are required for the setup of the tester itself.

6. Operating Instructions

Follow these steps to test the ignition system:

1. **Prepare the Engine:** Ensure the engine is turned off and the ignition key (if applicable) is in the OFF position.

2. **Disconnect Spark Plug Wire:** Carefully remove the spark plug wire boot from the spark plug.
3. **Connect Tester to Spark Plug:** Insert the metal probe end of the ignition tester firmly into the spark plug terminal.
4. **Connect Spark Plug Wire to Tester:** Attach the spark plug wire boot firmly onto the other end of the ignition tester.
5. **Ground the Tester:** Connect the alligator clip on the tester's ground wire to a clean, unpainted metal part of the engine block. This ensures a proper ground connection.
6. **Crank the Engine:** With all connections secure and safety precautions observed, crank the engine using the starter rope or electric starter. Do not attempt to start the engine.
7. **Observe for Spark:** Look into the transparent viewing window of the ignition tester.
    - A **strong, consistent blue or white spark** indicates the ignition system is functioning correctly up to the spark plug.
    - A **weak, intermittent, or yellow/orange spark** suggests a potential issue with the ignition coil, spark plug wire, or other ignition components.
    - **No spark** indicates a complete failure in the ignition system.
8. **Disconnect:** After testing, turn off the engine, disconnect the ground clip, remove the spark plug wire from the tester, and then remove the tester from the spark plug. Reconnect the spark plug wire to the spark plug.

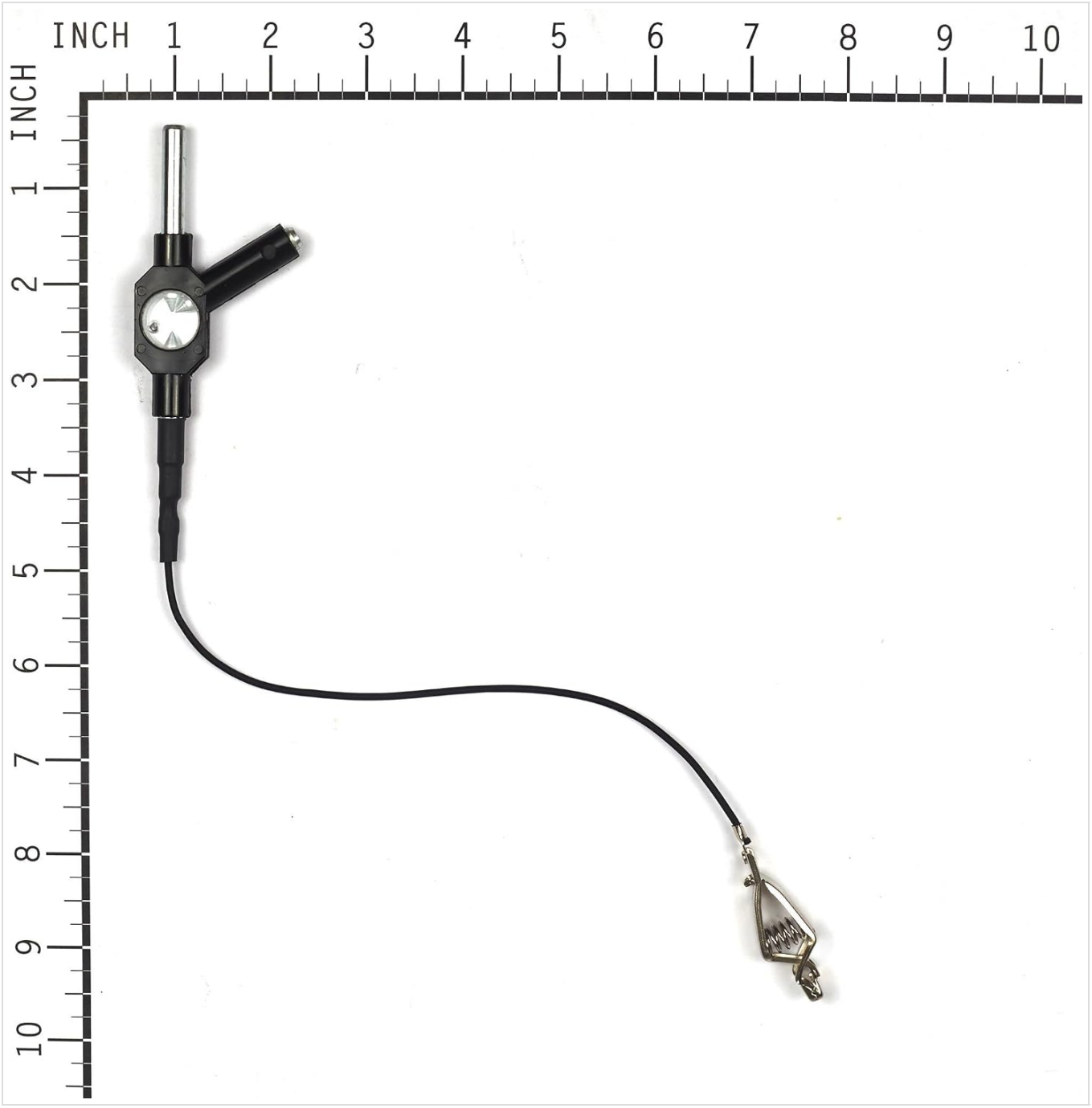

Figure 2: Briggs & Stratton Ignition Tester with scale. This image provides a view of the ignition tester alongside a ruler, illustrating its approximate dimensions and overall design for reference during connection.

7. Troubleshooting

If you observe no spark or a weak spark, consider the following:

- **No Spark:**
  - Ensure all connections are secure and the ground clip is attached to a clean, unpainted metal surface.
  - Inspect the spark plug wire for damage or corrosion.
  - Test with a known good spark plug (if possible) to rule out a faulty spark plug.
  - If still no spark, the ignition coil or magneto may be faulty. Consult your engine's service manual for further diagnostic steps.
- **Weak or Intermittent Spark:**
  - Check for loose connections or corrosion at the spark plug, spark plug wire, or ground clip.

- A weak spark can indicate a failing ignition coil or a partially shorted spark plug wire.
- Ensure the engine's kill switch is not partially engaged.

8. Specifications

Feature	Specification
Model Number	84003327
Brand	Briggs & Stratton
Color	Black
Product Dimensions (L x W x H)	0.5 x 6.25 x 7.25 inches
Item Weight	1.76 ounces (0.05 kg)
UPC	047282813065
Country of Origin	United States

9. Care and Maintenance

To ensure the longevity and proper function of your ignition tester:

- **Cleaning:** Wipe the tester with a clean, dry cloth after each use. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the tester in a dry, cool place, away from direct sunlight and extreme temperatures. Keep it protected from physical damage.
- **Inspection:** Periodically inspect the wire and alligator clip for any signs of damage, fraying, or corrosion. Replace the tester if any damage is observed.

10. Warranty and Support

For warranty information, technical support, or to purchase genuine replacement parts, please contact Briggs & Stratton directly through their official website or customer service channels. Refer to your product packaging or the Briggs & Stratton website for the most current contact information.

Briggs & Stratton Official Website: www.briggsandstratton.com

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