



Manuals.plus /

› YOKAMU /

› YOKAMU 0502025007 Carbon Brush Replacement User Manual for Ryobi, Ridgid, and Craftsman Table Saws

YOKAMU 32442

YOKAMU 0502025007 Carbon Brush Replacement User Manual

Model: 32442

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your YOKAMU 0502025007 Carbon Brush Replacement kit. These carbon brushes are critical components for the efficient operation of various power tools, ensuring consistent electrical contact with the motor's commutator. Please read these instructions carefully before proceeding with installation or maintenance.

2. SAFETY INFORMATION

Always prioritize safety when working with power tools and electrical components. Failure to follow these safety guidelines may result in injury or damage to equipment.

- **Disconnect Power:** Before performing any maintenance or installation on a power tool, always ensure it is unplugged from the power source to prevent accidental startup.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and gloves.
- **Work in a Well-Lit Area:** Ensure adequate lighting to clearly see components and avoid errors.
- **Use Correct Tools:** Employ the proper tools for disassembly and assembly to avoid damaging fasteners or components.
- **Handle with Care:** Carbon brushes are fragile; handle them gently to prevent breakage.

3. COMPATIBILITY

These YOKAMU 0502025007 carbon brushes are designed as direct replacements for the following power tool models:

Compatible Ryobi Models:

- BTS20R-1 10" Table Saw
- BTS21 10" Table Saw
- BTS16 10" Table Saw

- BTS211 10" Table Saw
- RTS31 10 In. Table Saw

Compatible Ridgid Models:

- R4516 Table Saw

Compatible Craftsman Models:

- 315218050 Table Saw
- 315218061 Table Saw
- 315218060 Table Saw
- 315218290 10" Table Saw

Note: This is an aftermarket replacement part. Always verify the part number (0502025007) and compatibility with your specific tool model before installation. If unsure, consult your tool's original manual or contact support.

4. PACKAGE CONTENTS

Your YOKAMU 0502025007 Carbon Brush Replacement package includes:

- 4 x Carbon Brushes (Part Number: 0502025007)

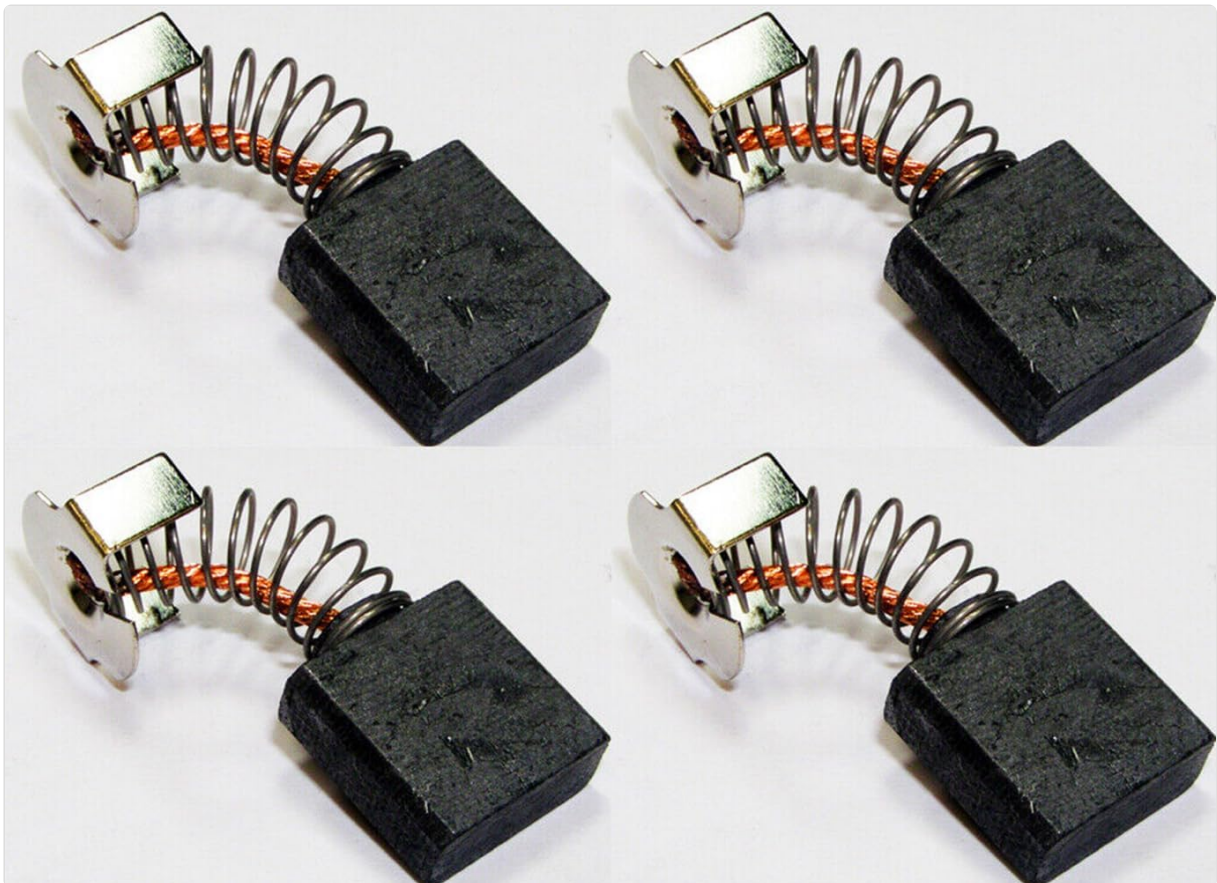


Image 1: Contents of the 4-pack carbon brush replacement kit.

5. INSTALLATION INSTRUCTIONS

Follow these steps to replace the carbon brushes in your compatible table saw. The exact procedure may vary slightly depending on your specific tool model, but the general principles remain the same.

1. **Prepare the Tool:** Ensure the table saw is completely unplugged from the power outlet. Clear the work area

and place the tool on a stable surface.

2. **Locate Brush Caps:** Carbon brushes are typically housed in brush caps on the motor casing. These caps are usually plastic or metal and can be identified by a slot for a screwdriver or a hexagonal shape for a wrench. There are usually two brush caps, one for each brush.

3. **Remove Old Brushes:**

- Carefully unscrew or unclip the brush cap.
- Gently pull out the old carbon brush. Note its orientation and how the spring is positioned.
- Inspect the old brush for wear. If it is significantly shorter than a new brush or chipped, it needs replacement.



Image 2: A single carbon brush, ready for installation.

4. **Install New Brushes:**

- Insert the new YOKAMU carbon brush into the brush holder. Ensure the carbon block slides smoothly into its channel.
- Make sure the spring is properly seated behind the carbon block, applying pressure to push the brush against the commutator.
- Carefully replace and secure the brush cap. Do not overtighten.

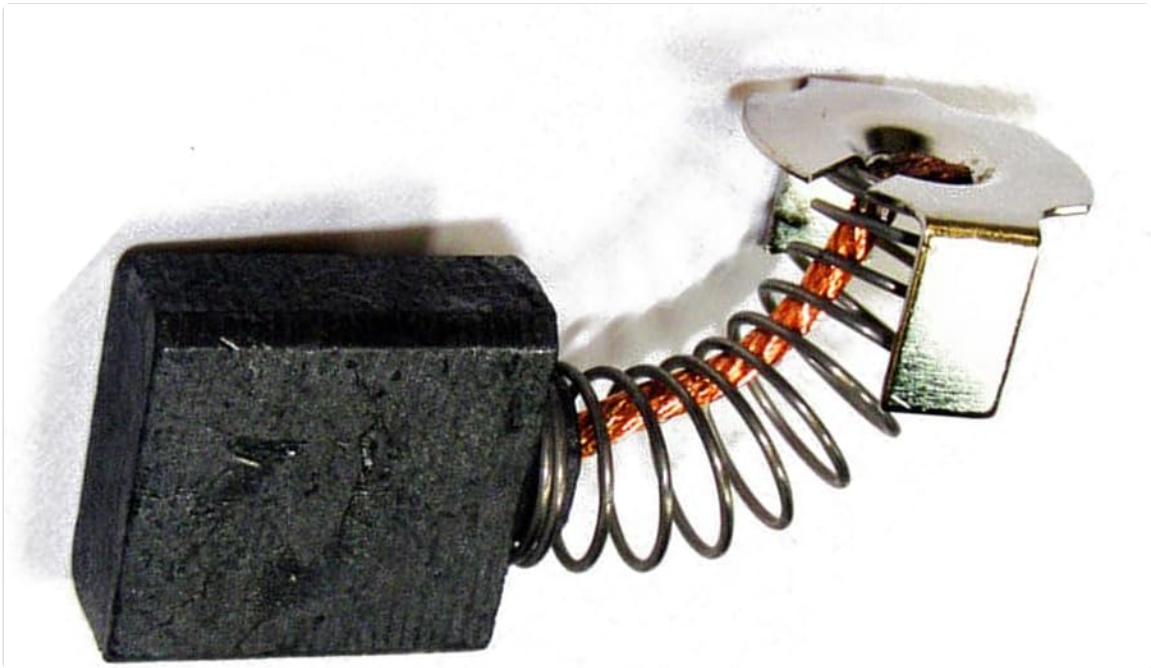


Image 3: Detail of the carbon brush components.

5. **Test the Tool:** Once both brushes are replaced and secured, plug the tool back into the power source. Briefly run the tool to ensure proper operation. It is normal for new brushes to spark slightly more than old ones during the initial break-in period. This should subside after a few minutes of use.

6. MAINTENANCE

Regular inspection of carbon brushes can extend the life of your power tool and prevent unexpected failures.

- **Periodic Inspection:** Depending on tool usage, inspect the carbon brushes every 50-100 hours of operation.
- **Check for Wear:** Replace brushes when they are worn down to approximately one-quarter of their original length, or if they show signs of chipping or uneven wear.
- **Commutator Condition:** While inspecting brushes, also check the commutator for excessive scoring or discoloration. A clean commutator ensures optimal brush contact.

7. TROUBLESHOOTING

If your power tool exhibits issues after carbon brush replacement, consider the following:

Symptom	Possible Cause	Solution
Motor not starting or intermittent operation	Brushes not fully seated, damaged brushes, or incorrect brush type.	Re-seat brushes, inspect for damage, ensure correct part number.
Excessive sparking at the motor	Brushes not properly broken in, worn commutator, or incorrect brush material.	Allow for break-in period (a few minutes of light use). If persistent, inspect commutator or consult a professional.
Reduced motor power or overheating	Brushes not making full contact, or other internal motor issues.	Verify brush installation. If problem persists, professional inspection is recommended.

If troubleshooting steps do not resolve the issue, discontinue use and consult a qualified technician or contact YOKAMU customer support.

8. SPECIFICATIONS

- **Part Number:** 0502025007
- **Model Number:** 32442
- **Brand:** YOKAMU
- **Power Source Compatibility:** AC/DC
- **Included Components:** Carbon Brush
- **Quantity:** 4 per package

9. WARRANTY AND SUPPORT

Every product from YOKAMU is backed by a commitment to quality and customer satisfaction.

- **Money-back Guarantee:** Enjoy a 30-day money-back guarantee from the date of purchase.
- **Worry-free Warranty:** All YOKAMU products come with an 18-month worry-free warranty.
- **Customer Support:** If you have any questions regarding compatibility, installation, or product performance, please feel free to contact YOKAMU customer support. When contacting support, it is helpful to provide your tool's model and serial number.