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Buildalot 0500X_Virutex_E70N

Buildalot Carbon Brushes for VIRUTEX E70N Router - Instruction Manual

INTRODUCTION

This instruction manual provides essential information for the proper installation and use of Buildalot Carbon Brushes, model 0500X_Virutex_E70N, designed as replacement parts for the VIRUTEX E70N router. These carbon brushes are critical components for the electrical motor's operation, ensuring consistent performance and longevity of your tool.

PRODUCT OVERVIEW

The Buildalot Carbon Brushes are supplied as a set of two, complete with springs, cables, and connectors. They are engineered to meet or exceed the performance of original equipment brushes, featuring an automatic stop mechanism to protect your tool from damage when the brushes are worn. The dimensions of each brush are approximately 0.25 x 0.39 x 0.75 inches (6.4 x 10 x 19 mm).



Image: Two Buildalot carbon brushes, each featuring a graphite block, a coiled spring, and a copper wire connector, ready for installation.

SPECIFICATIONS

Attribute	Detail
Brand	Buildalot
Model Number	0500X_Virutex_E70N
Compatibility	VIRUTEX E70N Router
Quantity	2 (Set of two)
Dimensions (approx.)	0.25 x 0.39 x 0.75 inches (6.4 x 10 x 19 mm)
Material	Graphite
Feature	Automatic Stop

INSTALLATION AND SETUP

Replacing carbon brushes requires careful attention to ensure proper function and safety. Always disconnect the power tool from its power source before attempting any maintenance or part replacement.

- Safety First:** Ensure the VIRUTEX E70N router is unplugged from the electrical outlet.
- Locate Brush Holders:** Identify the carbon brush access caps or covers on the router's motor housing. These are typically small, screw-on caps.
- Remove Old Brushes:** Unscrew the caps and carefully pull out the old carbon brushes. Note their orientation if possible, though these brushes are generally symmetrical.

4. **Inspect Commutator:** While the brushes are out, inspect the commutator (the copper segments on the motor's armature). It should be clean and smooth. If it's excessively grooved or dirty, professional servicing may be required.
5. **Install New Brushes:** Insert the new Buildalot carbon brushes into the brush holders. Ensure the spring applies even pressure to the brush, allowing it to slide freely.
6. **Replace Both Brushes:** It is highly recommended to replace both carbon brushes simultaneously, even if only one appears worn. This ensures balanced motor performance and extends the life of the motor.
7. **Secure Caps:** Screw the brush access caps back on firmly, but do not overtighten.
8. **Test Operation:** Plug the router back in and perform a brief test run to ensure proper function. Initial sparking is normal as the new brushes seat themselves.

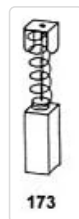


Image: A simplified diagram illustrating the components of a single carbon brush, including the graphite block, spring, and connector wire, labeled with '173' which may refer to a part number or diagram reference.

OPERATION

Once installed, the carbon brushes facilitate the transfer of electrical current to the motor's rotating armature. These brushes are designed with an **Automatic Stop** feature. This mechanism automatically disengages the brush from the commutator when it reaches a critical wear level. This prevents potential damage to the motor's commutator, safeguarding the tool from more extensive and costly repairs.

MAINTENANCE

Carbon brushes are wear-and-tear components and will naturally diminish over time with tool usage. Regular inspection of the brushes is recommended, especially if you notice a decrease in motor performance, excessive sparking, or unusual noises. The automatic stop feature will indicate when replacement is necessary by causing the tool to cease operation. No other specific maintenance is required for the carbon brushes themselves beyond timely replacement.

TROUBLESHOOTING

- **Tool Not Starting:** If the tool does not start after installing new brushes, ensure the brushes are fully seated and the access caps are securely tightened. Verify the tool is properly plugged into a functional power source. The automatic stop feature on worn brushes will prevent the tool from starting.
- **Excessive Sparking:** Some initial sparking is normal as new brushes conform to the commutator. However, if excessive sparking persists, it may indicate an issue with the commutator (e.g., dirt, damage) or improper brush installation.
- **Reduced Power/Intermittent Operation:** This can be a sign of worn brushes, a dirty commutator, or loose connections. Re-check brush installation and commutator condition.

SUPPORT AND CONTACT INFORMATION

Your satisfaction is our priority. If you have any questions, remarks, or encounter any issues with your

Buildalot Carbon Brushes, please do not hesitate to contact us. We maintain a large inventory of carbon brushes and offer specialized services for custom brush development.

For assistance, please refer to the contact information provided with your purchase or visit the official Buildalot website.