

## Buildalot 1366\_Atlas Copco\_AG1200-125X

# Buildalot Carbon Brushes for Atlas Copco AG1200-125X Sander User Manual

Model: 1366\_Atlas Copco\_AG1200-125X

## INTRODUCTION

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These Buildalot carbon brushes are designed as replacement components for the Atlas Copco AG1200-125X Sander. Carbon brushes are essential conductive components in electric motors, facilitating the transfer of electrical current to the rotating armature. Over time, carbon brushes wear down due to friction and electrical arcing, requiring periodic replacement to maintain optimal motor performance and prevent damage to the tool. This specific model includes an automatic stop feature, which halts the motor when the brushes are excessively worn, preventing potential damage to the commutator.

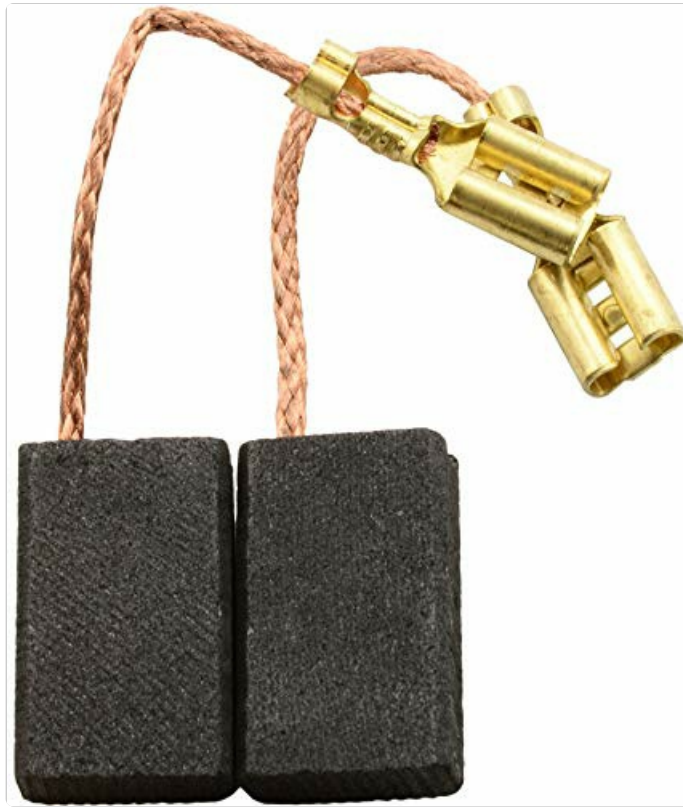


Image 1: A pair of Buildalot carbon brushes with copper wires and terminal connectors. These brushes are designed for the Atlas Copco AG1200-125X Sander.

## INSTALLATION INSTRUCTIONS

Proper installation of carbon brushes is crucial for the safe and efficient operation of your power tool. Always ensure the tool is disconnected from the power source before beginning any maintenance or installation.

### Safety Precautions:

- **Disconnect Power:** Always unplug the sander from the electrical outlet before attempting any installation or maintenance.
- **Wear Protective Gear:** Use safety glasses and gloves to protect against dust and sharp edges.
- **Refer to Tool Manual:** Consult your Atlas Copco AG1200-125X sander's original instruction manual for specific disassembly and assembly procedures.

### Step-by-Step Installation:

1. **Locate Brush Holders:** Identify the brush access covers on the motor housing of your Atlas Copco AG1200-125X sander. These are typically small caps or screws on the sides of the motor.
2. **Remove Old Brushes:** Carefully unscrew or unclip the brush covers. Gently pull out the old carbon brushes and their springs. Note their orientation for correct installation of the new brushes.
3. **Inspect Commutator:** While the brushes are removed, inspect the commutator (the copper segments on the motor's armature). It should be clean and smooth. If it's excessively grooved, pitted, or discolored, professional servicing may be required.
4. **Insert New Brushes:** Insert the new Buildalot carbon brushes into the brush holders. Ensure they slide freely and the copper wire leads are correctly positioned. The automatic stop feature relies on the brush length, so ensure the brush is fully seated.
5. **Connect Leads:** Connect the copper wire leads of the new brushes to the appropriate terminals

inside the tool. Ensure connections are secure.

6. **Secure Brush Covers:** Replace the brush covers, ensuring they are tightened securely but not overtightened.
7. **Test Tool:** Plug the sander back into the power source and perform a brief test run to ensure proper operation. Listen for unusual noises or excessive sparking.



Image 2: A simplified diagram illustrating the general placement and connection of a carbon brush (labeled 100) within a motor housing. This helps visualize the installation process.

## OPERATING CONSIDERATIONS

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Once the new carbon brushes are correctly installed, your Atlas Copco AG1200-125X sander should operate as intended. During the initial use, a brief period of increased sparking may occur as the new brushes seat themselves against the commutator. This is normal and should subside quickly. If excessive sparking persists, refer to the troubleshooting section.

## MAINTENANCE

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Regular inspection and timely replacement of carbon brushes are vital for extending the life of your power tool.

- **Inspection Frequency:** Inspect carbon brushes every 50-100 hours of tool operation, or if you notice a decrease in performance, excessive sparking, or the tool stops working.
- **Wear Indication:** These brushes feature an automatic stop mechanism. When the carbon material wears down to a critical length, the brush will disengage, stopping the motor to prevent damage to the commutator. This is a clear indicator that replacement is necessary.
- **Replacement:** Always replace both carbon brushes at the same time, even if one appears less worn. This ensures balanced performance and wear. Use only genuine Buildalot replacement brushes of the correct size (5x10x16mm) for the Atlas Copco AG1200-125X sander.

## TROUBLESHOOTING

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If your Atlas Copco AG1200-125X sander experiences issues after carbon brush replacement, consider the following:

- **Tool Not Starting:**
  - Ensure the tool is properly plugged in.
  - Verify that the new brushes are fully seated and their leads are securely connected.
  - Check if the automatic stop feature was activated by worn brushes; if so, new brushes should resolve this.
- **Excessive Sparking:**
  - A small amount of sparking is normal with new brushes. If sparking is heavy or persistent, ensure brushes are correctly installed and the commutator is clean.

- Excessive sparking can also indicate a damaged commutator or other internal motor issues, requiring professional inspection.
- **Reduced Performance/Intermittent Operation:**
  - Check for loose connections of the brush leads.
  - Ensure the brushes are not sticking in their holders and can move freely.
  - Confirm the brushes are the correct size and type for your specific sander model.

## SPECIFICATIONS

<b>Brand</b>	Buildalot
<b>Model Compatibility</b>	Atlas Copco AG1200-125X Sander
<b>Dimensions (L x W x H)</b>	5 x 10 x 16 mm (0.5 x 1 x 1.6 cm)
<b>Item Weight</b>	20 g
<b>Item Package Quantity</b>	2
<b>Part Number</b>	1366_Atlas Copco_AG1200-125X
<b>Special Feature</b>	Automatic Stop

## WARRANTY AND SUPPORT

For specific warranty information regarding your Buildalot carbon brushes, please refer to the retailer's purchase terms or contact Buildalot directly. As these are replacement wear parts, their warranty typically covers manufacturing defects rather than normal wear and tear.

For technical support or further inquiries, please visit the official Buildalot website or contact their customer service department.