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› Buildalot Universal Carbon Brushes for AEG, Atlas Copco & Milwaukee Power Tools - 5x8x14mm Instruction Manual

**Buildalot Bu\_8719468500589**

## Buildalot Universal Carbon Brushes Instruction Manual

Model: Bu\_8719468500589

### 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Buildalot universal carbon brushes. These brushes are designed as replacement parts for various AEG, Atlas Copco, and Milwaukee power tools, featuring an automatic stop function for enhanced motor protection.



Figure 1: Two Buildalot universal carbon brushes, showing the graphite block, spring, and connector. The brushes are marked with '12'.

### 2. PRODUCT FEATURES

- **Dimensions:** 5 x 8 x 14 mm (0.20 x 0.31 x 0.55 inches).

- **Automatic Stop Function:** Designed to stop the motor when the carbon brush is worn, preventing spark damage and irregular wear to the commutator.
- **Durability:** Engineered to exceed the lifespan of original carbon brushes.
- **Complete Set:** Each package contains two carbon brushes, complete with springs, cables, and connectors.
- **Universal Compatibility:** Suitable for a wide range of AEG, Atlas Copco, and Milwaukee power tools.

### 3. COMPATIBILITY

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These carbon brushes are compatible with various power tools from AEG, Atlas Copco, and Milwaukee. They are a direct replacement for original part numbers 4.931.310.6, 4.931.382.551, and others. A partial list of compatible models includes:

- 341465, 345061, 346184, 355311, 361496, 36194, 364628, 379676, 382080, 382511, 384958
- BH625 Fixtec, DE16RD, PHE24R, PHE24RX, PHE24RX2, PN2400R, PN3000R, PN3000R2, PN3000SUPXN2, PN3000X, PN3000X N2, PN3000XN2, PN3000XN2 GOLD, PN30M
- PPH24E, PPH24X2E, SB2-600, SB2-700, SB2-700D, SB216N, SB2E550, SB2E600R, SB2E650R, SB2E650RL, SB2E700, SBE15R, SBE520R, SP216
- ST400 - 110 V, ST400 127 V, ST500 - 110 V, STE500 - 110 V, TXE150

Always verify the dimensions and compatibility with your specific power tool model before purchase and installation.

### 4. INSTALLATION (SETUP)

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Replacing carbon brushes requires careful handling and adherence to safety procedures. If you are unsure, consult a qualified technician.

1. **Safety First:** Always disconnect the power tool from its power source before beginning any maintenance or installation.
2. **Locate Brush Holders:** Identify the carbon brush access points on your power tool. These are typically covered by caps or screws.
3. **Remove Old Brushes:** Carefully unscrew the caps or covers and remove the old carbon brushes. Note the orientation of the old brushes for correct installation of the new ones.
4. **Inspect Commutator:** While the brushes are out, inspect the commutator (the part of the motor that the brushes make contact with) for excessive wear or damage. Clean any carbon dust.
5. **Install New Brushes:** Insert the new Buildalot carbon brushes into the brush holders. Ensure they slide in smoothly and make proper contact with the commutator. The springs should provide firm pressure.
6. **Replace Both Brushes:** It is highly recommended to replace both carbon brushes at the same time, even if only one appears worn. This ensures balanced performance and extends motor life.
7. **Secure Covers:** Reattach the brush caps or covers securely.
8. **Test:** Reconnect the power tool to the power source and perform a brief test run to ensure proper operation.

*Note:* Some new brushes may produce minor sparking during the initial break-in period. This is normal as the brushes conform to the commutator's shape.

### 5. OPERATION

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Once installed, the carbon brushes operate automatically as part of your power tool's motor system. The primary function of these brushes is to conduct electrical current to the rotating commutator, allowing the motor to function.

The integrated **automatic stop function** is a safety and maintenance feature. When a carbon brush wears down to a critical length, this mechanism will automatically interrupt the electrical circuit, causing the motor to stop. This prevents potential damage to the motor's commutator from direct contact with the brush holder or excessive sparking, thereby extending the overall life of your power tool.

## 6. MAINTENANCE

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Regular inspection and timely replacement are crucial for maintaining the performance and longevity of your power tools.

- **Inspection Frequency:** The lifespan of carbon brushes varies depending on tool usage. Inspect them periodically, especially if you notice reduced power, excessive sparking, or unusual noises from the motor.
- **Replacement Indication:** The automatic stop function will indicate when a brush has reached its wear limit by stopping the tool. At this point, both brushes must be replaced.
- **Always Replace in Pairs:** For optimal performance and even wear, always replace both carbon brushes simultaneously.
- **Cleanliness:** Keep the brush holders and commutator free from dust and debris.

## 7. TROUBLESHOOTING

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If your power tool is not functioning correctly after installing new carbon brushes, consider the following:

- **Tool Not Starting:**
  - Ensure the tool is properly plugged in and the power source is active.
  - Verify that the new brushes are correctly seated and making firm contact with the commutator.
  - Check that the brush caps or covers are securely fastened.
  - Confirm that both brushes were replaced. The automatic stop feature will prevent operation if one brush is worn or improperly installed.
- **Excessive Sparking:**
  - Minor sparking is normal during the initial break-in period.
  - If sparking is severe or persists, check for proper seating of the brushes and ensure the commutator is clean and undamaged.
  - A damaged commutator may require professional repair.
- **Reduced Power or Intermittent Operation:**
  - Re-check brush installation for proper contact.
  - Ensure the springs are providing adequate pressure to the brushes.
  - Inspect the wiring and connectors for any loose connections.

If issues persist, discontinue use and consult a qualified technician or the tool manufacturer's service center.

## 8. SPECIFICATIONS

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Attribute	Detail
Brand	Buildalot
Model Number	Bu_8719468500589
Dimensions (L x W x H)	5 x 8 x 14 mm (0.20 x 0.31 x 0.55 inches)
Material	Graphite
Color	Black

Attribute	Detail
Weight	Approximately 20 grams (for the pair)
Feature	Automatic Stop Function
Usage	Professional and DIY

## 9. IMPORTANT SAFETY INFORMATION

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- Always disconnect power tools from the power source before installing or replacing components.
- Wear appropriate personal protective equipment (PPE), such as safety glasses, when working with power tools.
- Ensure the work area is well-lit and clear of obstructions.
- Do not modify the carbon brushes or use them for purposes other than their intended application.
- Store carbon brushes in a dry, cool place, away from direct sunlight and moisture.

## 10. SUPPORT

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For further questions, comments, or assistance regarding your Buildalot carbon brushes, please contact your retailer or the manufacturer directly. Ensure you have your product model number (Bu\_8719468500589) available when seeking support. You can often find contact information on the product packaging or the retailer's website. Buildalot maintains a large stock of carbon brushes and offers custom solutions.

