

**Luoran 791545791835**

## Instruction Manual for Luoran Carbon Brushes

Compatible with Kobalt 12" Miter Saw Models 0358936 SM3055LW

### PRODUCT OVERVIEW

These are replacement carbon brushes designed for electric motors, specifically compatible with certain miter saw models. Carbon brushes are critical components that conduct electricity between the stationary and rotating parts of a motor, ensuring its proper function. They are consumable parts that wear down over time and require periodic replacement to maintain motor performance.

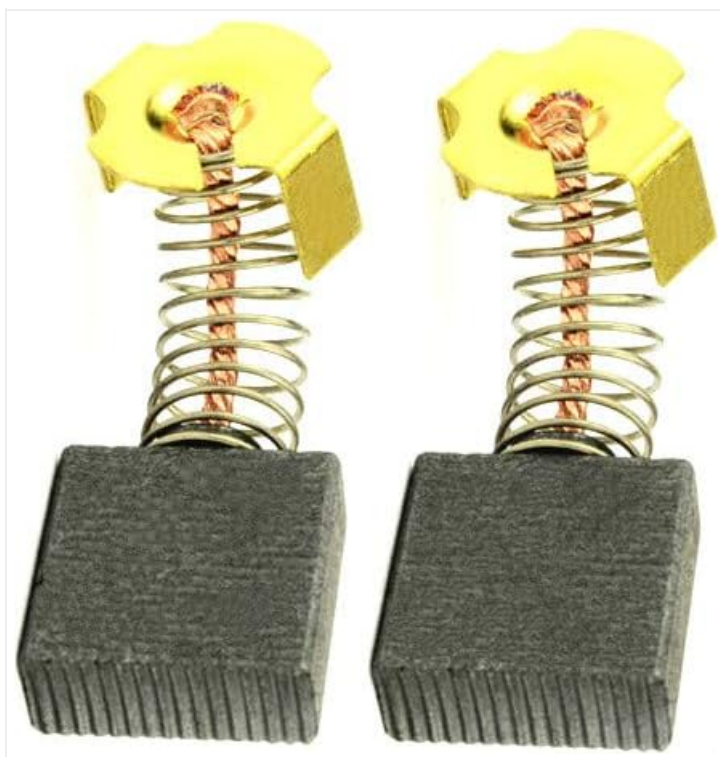


Image: Two Luoran carbon brushes, showing the carbon block, spring, and brass terminal. These brushes are essential for the electrical conductivity within a motor.

### COMPATIBILITY

These carbon brushes are specifically designed to be compatible with the following Kobalt 12" Miter Saw models:

- Kobalt 12" Miter Saw Model 0358936
- Kobalt 12" Miter Saw Model SM3055LW

Please verify your saw's model number before purchasing to ensure proper fit and function.

## INSTALLATION INSTRUCTIONS

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**Safety First:** Always disconnect the power tool from its power source before attempting any maintenance or installation. Wear appropriate personal protective equipment (PPE) such as safety glasses.

1. **Locate Brush Caps:** Identify the brush caps on the motor housing of your miter saw. These are typically small, round, or slotted caps on the sides of the motor.
2. **Remove Old Brushes:** Use a screwdriver or appropriate tool to unscrew and remove the brush caps. Carefully pull out the old carbon brushes and their springs. Note their orientation.
3. **Inspect Commutator:** Briefly inspect the commutator (the copper segments on the motor's armature) for excessive wear or damage. It should be relatively smooth and clean.
4. **Insert New Brushes:** Gently insert the new carbon brushes into the brush holders, ensuring they slide in smoothly and the spring is positioned correctly to apply pressure to the brush. The carbon end should face the commutator.
5. **Secure Brush Caps:** Screw the brush caps back into place, ensuring they are snug but not overtightened.
6. **Test Operation:** Reconnect the power tool to its power source. Briefly run the motor without a load to allow the new brushes to seat properly. Some minor sparking is normal during the initial break-in period.

If you are unsure about any step, consult a qualified technician or refer to your miter saw's specific service manual.

## MAINTENANCE

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Carbon brushes are wear items and will eventually need replacement. The lifespan of brushes varies depending on usage intensity and motor load. Regular inspection is recommended.

- **Periodic Inspection:** Check the carbon brushes every few months or after significant use. Replace them if they are worn down to approximately one-quarter of their original length, or if they appear chipped or damaged.
- **Cleanliness:** Keep the motor's ventilation openings clear of dust and debris to ensure proper cooling and prevent premature brush wear.



Image: An industrial machine in operation, showing the manufacturing process of carbon brushes. This highlights the precision involved in producing these components.

## TROUBLESHOOTING

If your miter saw is experiencing issues related to motor performance, worn carbon brushes could be a cause. Consider the following:

- **Motor Not Starting:** If the motor does not start or runs intermittently, check if the carbon brushes are fully seated and making proper contact. Severely worn brushes can prevent the motor from operating.
- **Reduced Power or Speed:** Worn brushes can lead to inefficient power transfer, resulting in a noticeable decrease in motor power or speed.
- **Excessive Sparking:** While some minor sparking is normal, excessive or continuous sparking at the commutator indicates worn brushes, a dirty commutator, or other motor issues. Replace brushes if they are worn.
- **Unusual Noise or Smell:** Grinding noises or a burning smell from the motor can indicate severely worn brushes or other internal damage. Discontinue use and inspect immediately.

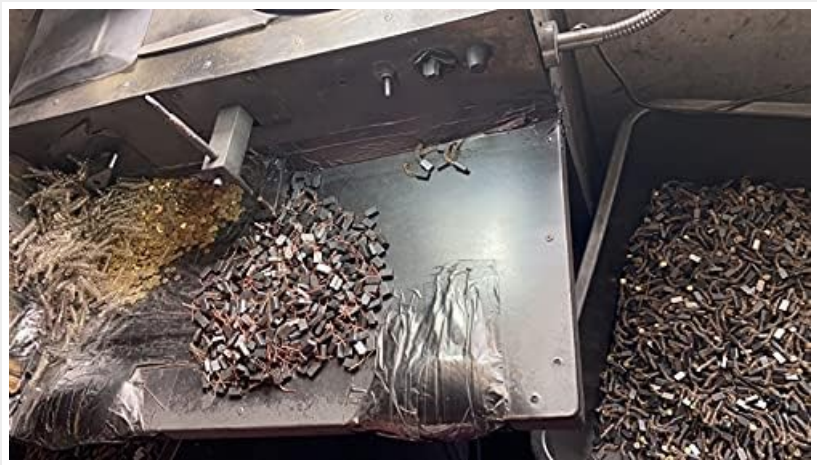


Image: A close-up view of numerous carbon brush components, including the carbon blocks and springs, in a manufacturing environment, ready for assembly or packaging.

## SPECIFICATIONS

Attribute	Value
Part Number	0358936 SM3055LW (Compatible)
Manufacturer	Luoran
Item Weight	0.317 ounces
Package Dimensions	3.7 x 2.56 x 0.55 inches
Item Model Number	791545791835
Material	High Speed Steel (Note: This might be a general product spec, brushes are carbon)
UPC	791545791835

*Note: While the material is listed as "High Speed Steel" in general product specifications, carbon brushes are primarily made of carbon composite materials. This specification might refer to other components of the tool or a general category.*



Image: A different angle of the industrial machinery used in the production of carbon brushes, illustrating the scale of manufacturing.

## WARRANTY AND SUPPORT

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For specific warranty information regarding these carbon brushes, please refer to the seller's policy or contact Luoran directly. Product support and technical assistance can typically be obtained through the point of purchase or the manufacturer's official channels.

You can visit the [Luoran Store on Amazon](#) for more information or to contact the seller.

