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Honda 31106-ZB4-003 Brush Assembly User Manual

Genuine Honda Replacement Part

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1. PRODUCT OVERVIEW

The Honda 31106-ZB4-003 Brush Assembly is a genuine replacement part designed for specific Honda equipment. This component is crucial for the proper electrical function of the equipment it is installed in, typically found in generators or similar machinery requiring electrical current transfer via brushes.

Ensuring the use of genuine Honda parts helps maintain the performance, reliability, and longevity of your Honda equipment.

HONDA

GENUINE PARTS
Honda Motor Co., Ltd.

ORIGINAL HONDA PART

Made By Honda for Honda



MADE IN JAPAN

Image 1.1: The Honda 31106-ZB4-003 Brush Assembly as supplied in its original Honda packaging, indicating it is a genuine part.

2. INSTALLATION INSTRUCTIONS

Installation of the Honda 31106-ZB4-003 Brush Assembly requires careful attention to detail and adherence to safety procedures. It is recommended that this procedure be performed by a qualified technician or an individual with experience in equipment repair.

2.1 Safety Precautions

- Always disconnect power to the equipment before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the work area is well-lit and free of obstructions.
- Refer to the specific equipment's service manual for detailed disassembly and reassembly procedures.

2.2 Installation Steps (General)

The following steps are general guidelines. Always consult your equipment's specific service manual for precise instructions.

1. **Access the Brush Holder:** Locate and carefully remove the covers or components necessary to access the existing brush assembly within your Honda equipment.
2. **Disconnect Electrical Connections:** Note the wiring configuration and disconnect any electrical leads attached to the old brush assembly. It is advisable to take a photograph for reference.
3. **Remove Old Brush Assembly:** Carefully unmount and remove the worn or damaged brush assembly. Observe how it is seated and secured.
4. **Inspect Commutator/Slip Rings:** Before installing the new brush assembly, inspect the commutator

or slip rings for wear, scoring, or carbon buildup. Clean if necessary, following the equipment's service manual guidelines.

5. **Install New Brush Assembly:** Position the new Honda 31106-ZB4-003 Brush Assembly into its designated slot. Ensure it is seated correctly and the brushes make proper contact with the commutator/slip rings.
6. **Secure Assembly:** Fasten the new brush assembly using the original mounting hardware. Do not overtighten.
7. **Reconnect Electrical Connections:** Reattach the electrical leads to the new brush assembly, ensuring correct polarity and secure connections.
8. **Reassemble Equipment:** Replace any covers or components removed during disassembly.
9. **Test Functionality:** After reassembly, perform a functional test of the equipment according to its operational manual to ensure proper operation.

3. FUNCTION OF THE BRUSH ASSEMBLY

The brush assembly is a critical component in many electrical machines, such as generators and motors. Its primary function is to conduct electrical current between stationary wiring and moving parts (like a commutator or slip rings) of the machine.

The brushes, typically made of carbon, are held in contact with the rotating surface by springs. As the machine operates, the brushes wear down due to friction. Proper functioning of the brush assembly ensures efficient power transfer and stable electrical output from the equipment.

4. MAINTENANCE AND INSPECTION

Regular inspection and timely replacement of the brush assembly are essential for the longevity and reliable operation of your Honda equipment.

4.1 Inspection Schedule

- Consult your equipment's service manual for recommended inspection intervals.
- Typically, brushes should be inspected every 100-200 operating hours or annually, whichever comes first.
- Inspect more frequently if the equipment operates in dusty or harsh environments.

4.2 What to Look For During Inspection

- **Brush Length:** Check the remaining length of the carbon brushes. If they are worn down to the wear limit indicator (if present) or significantly shorter than new brushes, they require replacement.
- **Brush Condition:** Look for chipping, cracking, or excessive uneven wear on the brush faces.
- **Spring Tension:** Ensure the springs holding the brushes against the commutator/slip rings provide adequate tension. Weak springs can lead to poor contact and arcing.
- **Commutator/Slip Ring Condition:** Inspect for excessive scoring, pitting, or carbon buildup. A clean, smooth surface is ideal.
- **Dust and Debris:** Clean any carbon dust or debris from the brush holder area.

4.3 Replacement

Replace the brush assembly with a genuine Honda 31106-ZB4-003 part when signs of wear or damage are observed. Refer to the "Installation Instructions" section for replacement guidance.

5. TROUBLESHOOTING COMMON ISSUES

Issues related to the brush assembly often manifest as electrical problems in the equipment. Below are some common symptoms and potential causes related to the brush assembly.

Symptom	Possible Cause (Brush Assembly Related)	Recommended Action
Equipment not starting or no power output	Worn-out brushes, poor brush contact, broken brush spring, incorrect installation.	Inspect brush length and condition. Ensure proper seating and spring tension. Verify electrical connections. Replace if necessary.
Intermittent power or fluctuating output	Weak brush springs, dirty commutator/slip rings, uneven brush wear.	Inspect brush springs and brush faces. Clean commutator/slip rings. Replace brush assembly if wear is significant.
Excessive sparking at commutator/slip rings	Worn brushes, weak brush springs, rough or dirty commutator/slip rings, incorrect brush grade.	Inspect and replace worn brushes. Clean and smooth commutator/slip rings. Ensure proper spring tension.
Unusual noise from the brush area	Misaligned brushes, foreign debris, damaged brush holder.	Inspect for proper alignment and clear any debris. Check for damage to the brush holder.

If troubleshooting steps do not resolve the issue, consult a qualified service technician or refer to the comprehensive service manual for your specific Honda equipment.

6. PRODUCT SPECIFICATIONS

The following specifications pertain to the Honda 31106-ZB4-003 Brush Assembly:

- **Part Number:** 31106-ZB4-003
- **Brand:** Honda
- **Item Weight:** Approximately 4 ounces (113 grams)
- **Product Dimensions:** Approximately 0.39 x 0.39 x 0.39 inches (1 x 1 x 1 cm)
- **Manufacturer:** Honda
- **ASIN:** B00CSBTAUA
- **First Available Date:** December 6, 2012
- **Type:** Brush Assembly (Genuine OEM Part)

Note: Dimensions and weight are approximate and may vary slightly.

7. WARRANTY AND SUPPORT

As a genuine Honda part, the 31106-ZB4-003 Brush Assembly is typically covered by Honda's standard warranty for replacement parts. For specific warranty terms and conditions, please refer to the warranty information provided with your original Honda equipment or contact an authorized Honda service center. For technical support, installation assistance, or to locate an authorized service dealer, please visit the official Honda Power Equipment website or consult the service manual for the specific equipment in which

this part is used.

Important: Always use genuine Honda replacement parts to ensure compatibility, performance, and to maintain the validity of your equipment's warranty.