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› BTJCRLEB Main Brush Gear Box Middle Sweep Motor for LIECTROUX XR500 (Model 830) - Instruction Manual

BTJCRLEB 830

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Model: 830 | Brand: BTJCRLEB

INTRODUCTION

This manual provides essential information for the installation, function, and maintenance of your new BTJCRLEB Main Brush Gear Box Middle Sweep Motor. This component is designed to replace the original motor in compatible robot vacuum cleaners, ensuring efficient and thorough cleaning performance. Please read these instructions carefully before proceeding with installation or maintenance.

Compatibility: This motor is compatible with various robot vacuum models, including but not limited to: LIECTROUX XR500, LIECTROUX C30B, LIECTROUX E30, Proscenic D55, Proscenic 800T, Proscenic 820, Proscenic 830, Proscenic 850P, Proscenic D55 Pro, Proscenic 830T, Proscenic 850T, Proscenic 820T, Proscenic 820S, Blaupunkt, Bluebot, XBOOST, XPRO, LEENKEA, ABIR X5, ABIR X6, and ABIR X8.

SETUP AND INSTALLATION

This section outlines the general procedure for replacing the main brush gear box middle sweep motor. Specific steps may vary slightly depending on your robot vacuum cleaner model. Always refer to your robot vacuum's original manual for detailed disassembly instructions.

Safety Precautions

- Always power off and unplug your robot vacuum cleaner before attempting any installation or maintenance.
- Remove the battery if possible to prevent accidental power-on.
- Use appropriate tools and exercise caution to avoid injury or damage to the robot vacuum.
- Keep small parts away from children and pets.

Installation Steps

1. **Prepare the Robot Vacuum:** Place the robot vacuum upside down on a clean, flat surface. Ensure it is powered off and unplugged.
2. **Locate the Main Brush Module:** Identify the main brush module cover, usually secured by screws.
3. **Remove the Main Brush Cover:** Unscrew and carefully remove the main brush cover. Set aside any screws in a safe place.
4. **Remove the Main Brush:** Take out the main brush and its end caps.
5. **Access the Motor/Gear Box:** Depending on your model, you may need to remove additional screws or clips to access the old main brush gear box middle sweep motor. Disconnect any wiring harnesses attached to the motor.
6. **Remove the Old Motor:** Carefully detach and remove the old motor assembly.
7. **Install the New Motor:** Position the new BTJCRLEB Main Brush Gear Box Middle Sweep Motor into place. Ensure it fits securely.
8. **Connect Wiring:** Reconnect the wiring harness to the new motor. Ensure connections are firm and correctly oriented.
9. **Reassemble:** Reinstall the main brush, its end caps, and the main brush cover. Secure all screws.
10. **Test Functionality:** Power on the robot vacuum and initiate a cleaning cycle to confirm proper operation of the new motor.



Image 1: Overview of the BTJCRLEB Main Brush Gear Box Middle Sweep Motor assembly. This image shows the complete unit with the motor attached to the gear box and brush housing.



Image 2: Side view of the motor assembly, highlighting the motor and its connection points.

OPERATION

The BTJCRLEB Main Brush Gear Box Middle Sweep Motor is an internal component of your robot vacuum

cleaner. Once correctly installed, its operation is integrated with the robot's cleaning cycles. It drives the main brush, which is crucial for effective debris collection from various floor surfaces.

- **Enhanced Cleaning:** A properly functioning motor ensures the main brush rotates at the optimal speed, leading to more thorough cleaning and efficient dirt pickup.
- **Reduced Lagging:** This replacement motor is designed to reduce instances of the main brush lagging or getting stuck, improving the robot's navigation and cleaning path.
- **Smooth Operation:** The new motor contributes to smoother overall operation of the main brush system, minimizing unusual noises during cleaning.

MAINTENANCE

As a replacement part, the primary maintenance for this motor involves ensuring the main brush area is kept clean to prevent strain on the motor. The motor itself is a sealed unit and does not require internal maintenance.

- **Regular Brush Cleaning:** Frequently remove and clean the main brush to prevent hair and debris entanglement. Excessive entanglement can put undue stress on the motor, reducing its lifespan and cleaning efficiency.
- **Inspect for Wear:** Periodically inspect the main brush and its housing for signs of wear or damage. Replace the main brush if bristles are worn or damaged.
- **Replacement Schedule:** The lifespan of the motor can vary based on usage. If you notice a significant decrease in cleaning performance, unusual noises from the brush area, or the main brush stops rotating, it may be time to inspect or replace the motor assembly again.



Image 3: Angled view of the motor and gear box, showing the structural details.

TROUBLESHOOTING

If you encounter issues after installing the new motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Main brush not rotating or rotating slowly.	• Hair/debris entangled in main brush or motor. • Incorrect motor installation or wiring. • Motor malfunction (rare for new part).	• Power off, remove main brush, clean thoroughly. • Recheck installation steps and wiring connections. • If issues persist, contact customer support.
Unusual noises from the main brush area.	• Debris caught in the gear box. • Main brush not seated correctly. • Motor or gear box issue.	• Power off, inspect main brush area for foreign objects. • Ensure main brush and cover are correctly installed. • If noise continues, contact customer support.
Robot vacuum displays an error related to the main brush.	• Main brush jammed. • Motor not communicating with robot's system.	• Clear any obstructions from the main brush. • Verify all electrical connections are secure. • Consult your robot vacuum's original manual for specific error codes.



Image 4: Top-down view of the motor assembly, showing the internal structure and connections.

SPECIFICATIONS

Feature	Detail
Product Type	Main Brush Gear Box Middle Sweep Motor
Brand	BTJCRLEB
Model Number (Current Variant)	830
Compatibility	LIECTROUX XR500, C30B, E30; Proscenic D55, 800T, 820, 830, 850P, D55 Pro, 830T, 850T, 820T, 820S; Blaupunkt; Bluebot; XBOOST; XPRO; LEENKEA; ABIR X5/X6/X8

Feature	Detail
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Assembly Required	No (component assembly)
Number of Pieces	1



Image 5: Underside view of the motor housing, showing the brush compartment.

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available documentation. For warranty claims, technical support, or further assistance, please contact the seller or manufacturer directly through your purchase platform.

Manufacturer: ronglan