Mytkoj Ground-penetrating signal sensors

Mytkoj Cliff Sensors/Bumper Sensor Set Instruction Manual

Model: Ground-penetrating signal sensors

Product Overview

This Mytkoj Cliff Sensors/Bumper Sensor Set provides essential replacement parts for compatible Ecovacs DEEBOT OZMO and Yeedi Smart Robotic Vacuums. Sensors are critical components that enable your robotic vacuum to detect obstacles, prevent collisions, and avoid falls, ensuring efficient and intelligent navigation within complex home environments. This set is designed to restore optimal performance to your vacuum cleaner's navigation system.

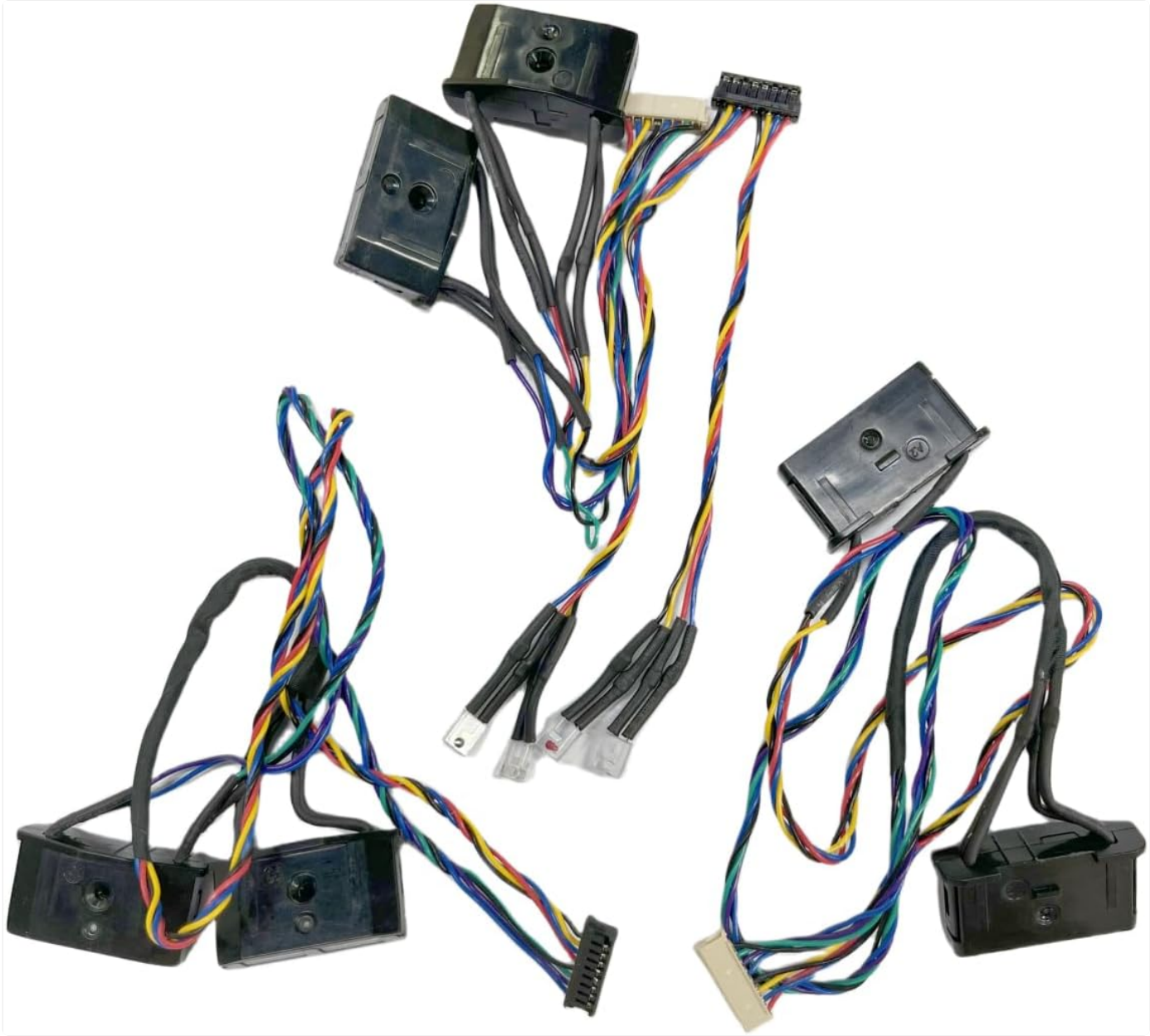


Image: The complete Mytkoj Cliff Sensors/Bumper Sensor Set, showing multiple sensor units with their connecting wires.

Installation Guide

This sensor set is intended for replacing existing ground-penetrating signal sensors in your compatible robotic vacuum. The set includes three pieces: left, right, and lower (front) sensors. Careful distinction of the wire head colors and lengths is crucial during installation.

1. **Preparation:** Before beginning, ensure your robotic vacuum is powered off and disconnected from any charging base. It is recommended to consult your vacuum's specific service manual or online resources for detailed disassembly instructions, as accessing the sensors typically requires opening the robot's casing.
2. **Identify Sensor Locations:** The sensors are located on the underside of the robotic vacuum. There are typically two side sensors (left and right) and one front/lower sensor.
3. **Distinguish Sensors:**
   - The lower (front) view sensor has shorter leads compared to the left and right side sensors.
   - Pay close attention to the color of the wire heads for correct placement:
     - **Front Sensor:** Typically identified by black and white wire connections.
     - **Left Sensor:** Often associated with black wire connections.

- **Right Sensor:** Often associated with white wire connections.

4. **Removal of Old Sensors:** Carefully disconnect the old sensor modules from their respective ports and remove them from the vacuum's chassis.
5. **Installation of New Sensors:** Insert the new Mytkoj sensors into their corresponding locations. Ensure the wire heads are correctly matched to the ports based on color and length. Secure the sensors in place if applicable.
6. **Reassembly:** Carefully reassemble your robotic vacuum, ensuring all connections are secure and no wires are pinched.
7. **Testing:** After reassembly, place the vacuum on the floor and power it on to test its functionality. Observe if any error messages related to drop sensors persist.



Image: Underside view of a robotic vacuum illustrating the connection points for the left, right, and front (black and white) sensors. This image highlights the importance of matching wire colors during installation.



Image: A detailed view showing the physical placement of the sensors within the robotic vacuum's chassis, with close-ups of the sensor modules themselves.



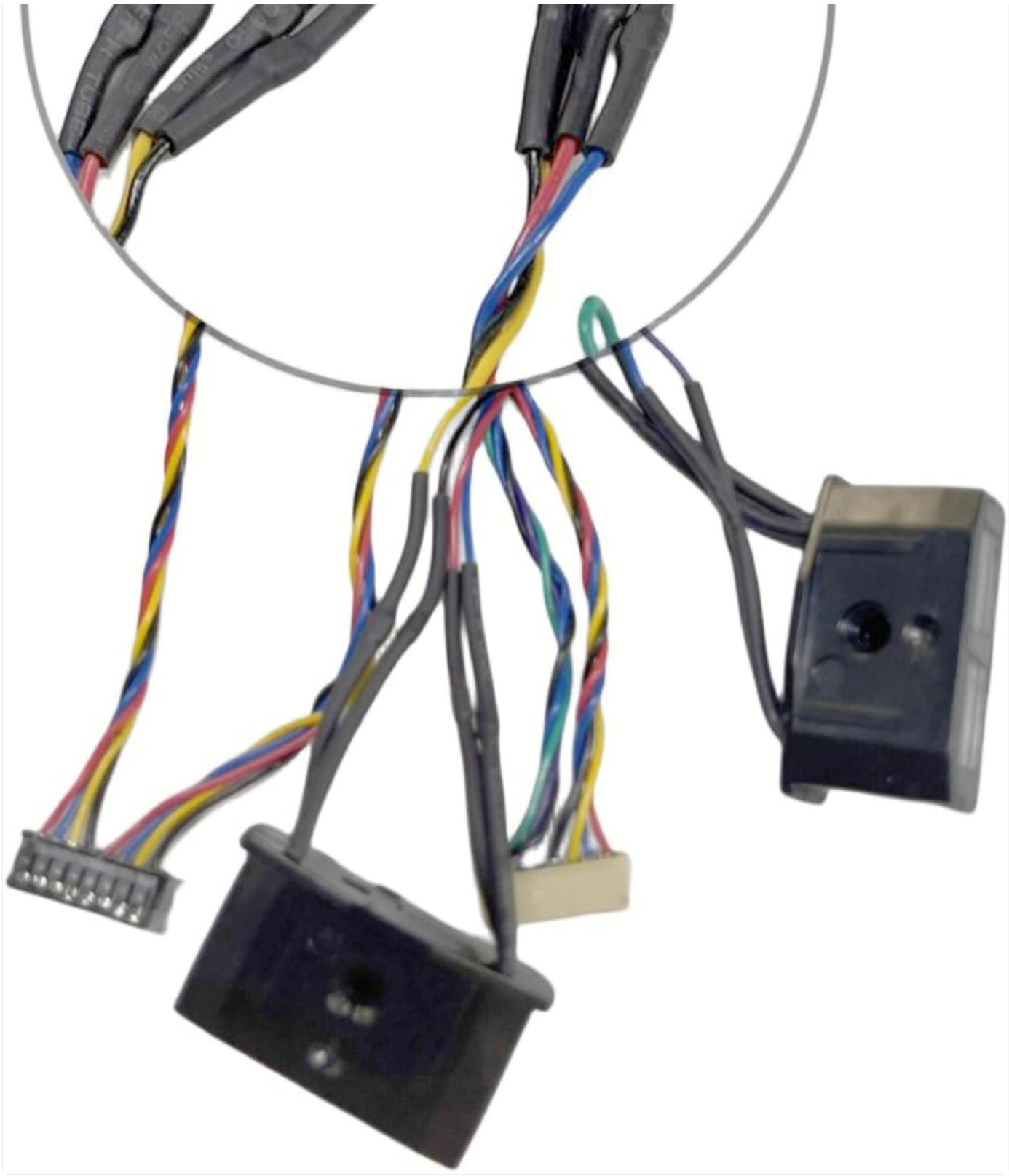


Image: A close-up of the individual sensor heads, showing their transparent covers and internal components.

Operating Principle

The ground-penetrating signal sensors, also known as cliff or bumper sensors, are integral to your robotic vacuum's autonomous operation. They function by emitting signals (often infrared) downwards or forwards and detecting their reflection. This allows the robot to:

- **Detect Obstacles:** Identify objects and furniture in its path, enabling the robot to slow down or change direction to avoid collisions.

- **Prevent Falls:** Recognize sudden drops, such as stairs or ledges, preventing the robot from falling.
- **Navigate Complex Environments:** Contribute to the robot's ability to efficiently and intelligently clean around various household items and floor transitions.

Properly functioning sensors ensure your robotic vacuum operates safely and effectively, maximizing its cleaning performance and extending its lifespan.

Maintenance

While these sensors are replacement parts, their longevity and the overall performance of your robotic vacuum can be extended with proper care and timely replacement.

- **Sensor Cleaning:** Periodically inspect the sensor windows on the underside of your robotic vacuum. Dust, dirt, or debris can accumulate on these surfaces, obstructing the sensor's ability to emit and receive signals accurately. Gently wipe the sensor windows with a clean, dry microfiber cloth. Avoid using abrasive cleaners or excessive moisture.
- **Timely Replacement:** The most common indicator that your sensors need replacement is when your vacuum cleaner displays an error message such as ***"dust accumulation in the lower view"***or a similar anti-drop/bumper sensor malfunction warning. Replacing faulty sensors promptly will restore your vacuum's navigation capabilities and prevent potential damage from collisions or falls.

Troubleshooting

If your robotic vacuum continues to exhibit issues related to navigation or error messages after replacing the sensors, consider the following troubleshooting steps:

- **Verify Installation:** Double-check that all three sensors (left, right, and front/lower) are correctly installed and their wire connections are secure and matched according to color and length. An incorrect connection can lead to persistent errors.
- **Clean Surrounding Areas:** Ensure that the areas around the sensor windows on the vacuum's chassis are clean and free of any obstructions that might interfere with sensor operation.
- **Software/Firmware Reset:** Some robotic vacuums may benefit from a factory reset or firmware update after hardware replacement. Consult your vacuum's user manual for instructions on how to perform these actions.
- **Other Components:** If the error persists, the issue might not be solely with the sensors. Other components of the vacuum's navigation system or main board could be faulty. In such cases, professional diagnosis or contacting the vacuum cleaner's manufacturer support may be necessary.
- **Compatibility Check:** Reconfirm that this sensor set is fully compatible with your specific robotic vacuum model. Refer to the product's compatibility list.

Specifications

Brand	Mytkoj
Model Name	Cliff Sensors/Bumper Sensor Set replacement parts
Item Model Number	Ground-penetrating signal sensors

Compatible Devices	Ecovacs DEEBOT OZMO Yeedi T9 /T8 AIVI/T8/N8 Pro/N8 Pro plus/N8/N8+/920/950/T5 DX9G Smart Robotic Vacuum Bumper Actuators
Product Dimensions	9.6"L x 2"W x 8.2"H
Item Weight	5.9 ounces
UPC	733998521140
Manufacturer	Mytkoj

Warranty and Support

For specific warranty information regarding your Mytkoj Cliff Sensors/Bumper Sensor Set, please refer to the product packaging or contact the seller directly. As this is a replacement part, warranty terms may vary. For technical support or further assistance with installation and troubleshooting, please reach out to the manufacturer, Mytkoj, or the retailer from whom the product was purchased.
Always ensure you are purchasing genuine Mytkoj replacement parts to guarantee compatibility and performance.

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