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> [Rostra 250-1903-BZTRK Rear Bumper Parking Assistance System User Manual](#)

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Rostra 250-1903-BZTRK Rear Bumper Parking Assistance System User Manual

Model: 250-1903-BZTRK

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1. INTRODUCTION

The Rostra 250-1903-BZTRK Rear Bumper Parking Assistance System is designed to enhance safety and convenience when maneuvering light duty trucks in reverse. This system utilizes ultrasonic sensors to detect obstacles behind your vehicle, providing audible and visual alerts to help prevent collisions during parking and backing up. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in property damage, injury, or improper system function.

- **Professional Installation Recommended:** Installation of this system involves electrical wiring and drilling into the vehicle's bumper. If you are not experienced with automotive electrical systems or vehicle modifications, professional installation is strongly recommended.
- **Disconnect Power:** Before beginning any electrical work, disconnect the vehicle's battery to prevent electrical shorts or damage.
- **Verify Wiring:** Ensure all wiring connections are secure and correctly routed to avoid interference with moving parts or exposure to heat/moisture.
- **Drilling Precautions:** When drilling holes in the bumper for sensor installation, verify there are no existing wires, hoses, or structural components behind the drilling location.
- **System as Aid Only:** This parking assistance system is an aid only and does not replace the driver's responsibility to operate the vehicle safely. Always check your surroundings visually and use mirrors before and during backing maneuvers.

- **Environmental Factors:** System performance may be affected by extreme weather conditions (heavy rain, snow, ice), sensor obstructions (mud, dirt), or certain object types (very thin objects, objects with sound-absorbing surfaces).

3. PACKAGE CONTENTS

Please verify that all components are present before beginning installation. If any items are missing or damaged, contact Rostra customer support.

- Control Unit (Main Module)
- Ultrasonic Parking Sensors (typically 2 or 4)
- Sensor Wiring Harnesses
- Power/Signal Wiring Harness
- Audible Buzzer/Speaker
- Hole Saw/Drill Bit for Sensor Installation
- Mounting Hardware (zip ties, screws, adhesive pads)
- Instruction Manual (this document)



Image 3.1: Example of system components, including sensors and wiring.

4. SETUP & INSTALLATION

Installation of the Rostra 250-1903-BZTRK system requires careful attention to detail. Allow ample time for the installation process, as it can be comprehensive.

4.1 Pre-Installation Steps

1. **Review Manual:** Read this entire manual before starting.
2. **Gather Tools:** You will need basic automotive tools, wire strippers, crimpers, electrical tape, a drill, and the supplied hole saw.
3. **Vehicle Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the ignition. Disconnect the negative terminal of the vehicle's battery.
4. **Identify Mounting Locations:** Determine optimal sensor placement on the rear bumper, ensuring they are evenly spaced and clear of obstructions. Mark these locations.

4.2 Sensor Installation

1. **Drill Holes:** Using the provided hole saw/drill bit, carefully drill holes at the marked locations on the rear bumper. Ensure the holes are clean and free of burrs.
2. **Insert Sensors:** Gently push each sensor into its respective hole until it sits flush with the bumper surface. Ensure the sensors are oriented correctly (if directional).
3. **Route Sensor Wires:** Route the sensor wires through the bumper and into the vehicle's interior, protecting them from sharp edges and heat. Use grommets where wires pass through metal panels.

4.3 Control Unit and Wiring

1. **Mount Control Unit:** Find a secure, dry location inside the vehicle (e.g., under the dashboard, behind a trim panel) to mount the control unit. Avoid mounting near strong electrical interference sources like fuse boxes, as this can affect performance.
2. **Connect Sensor Wires:** Plug each sensor wire into the corresponding port on the control unit. Refer to the wiring diagram in the full product manual for specific port assignments.
3. **Connect Power/Signal:**
 - **Power (Red Wire):** Connect to a constant 12V power source.
 - **Ground (Black Wire):** Connect to a solid chassis ground point.
 - **Reverse Trigger (Green/Blue Wire - typical):** Connect to the vehicle's reverse light circuit. This activates the system when the vehicle is shifted into reverse.
4. **Connect Buzzer/Speaker:** Plug the audible buzzer or speaker into the designated port on the control unit. Mount the buzzer in a location where it can be clearly heard by the driver.
5. **Secure Wiring:** Use zip ties or electrical tape to secure all wiring, preventing rattles and ensuring wires are not pinched or exposed. The system often includes extra extension wiring wrapped in split loom for protection.

4.4 Post-Installation Check

1. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
2. **Test System:** Shift the vehicle into reverse (with the engine running or ignition on, depending on vehicle). The system should emit a short beep, indicating it is active. Slowly back towards an object to verify sensor detection and audible alerts.
3. **Adjust Sensitivity (if applicable):** Some systems allow for sensitivity adjustments. Refer to the full product manual for details on how to adjust if your model supports it.

5. OPERATING INSTRUCTIONS

The Rostra 250-1903-BZTRK parking assistance system operates automatically when the vehicle is in reverse gear.

- **Activation:** When the vehicle is shifted into reverse, the system will activate. You may hear a brief confirmation beep.
- **Detection:** The ultrasonic sensors continuously scan the area behind the vehicle.
- **Audible Alerts:** As an object is detected and the distance decreases, the audible buzzer will emit a series of beeps.
 - **Long Distance:** Slow, intermittent beeps.
 - **Medium Distance:** Faster, more frequent beeps.
 - **Close Distance:** A continuous, solid tone indicates the object is very close (typically within 1 foot or 30 cm).
- **Visual Alerts (if equipped):** If your system includes a visual display, it will show the approximate distance to the object and indicate which sensor is detecting it.
- **Deactivation:** The system deactivates automatically when the vehicle is shifted out of reverse gear.

Always use caution and verify your surroundings visually, as the system may not detect all objects under all conditions.

6. MAINTENANCE

The Rostra parking assistance system requires minimal maintenance to ensure reliable operation.

- **Keep Sensors Clean:** Regularly inspect and clean the sensor surfaces on the bumper. Dirt, mud, snow, or ice can obstruct the sensors and impair their performance. Use a soft cloth and mild soap and water. Do not use abrasive cleaners.

- **Check Wiring:** Periodically inspect visible wiring for any signs of wear, fraying, or loose connections. Ensure all connections remain secure.
- **Avoid High-Pressure Washing:** When washing your vehicle, avoid directing high-pressure water streams directly at the sensors, as this could potentially damage them.

7. TROUBLESHOOTING

If you experience issues with your Rostra parking assistance system, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
System does not activate in reverse.	<ul style="list-style-type: none"> No power to control unit. Reverse trigger wire not connected or faulty. Blown fuse. 	<ul style="list-style-type: none"> Check power and ground connections. Verify connection to reverse light circuit. Check vehicle's fuse box for a blown fuse related to reverse lights or accessories.
System constantly senses objects or gives continuous tone when nothing is behind the vehicle.	<ul style="list-style-type: none"> Sensors are dirty or obstructed. Sensors are incorrectly installed or angled. Electrical interference (e.g., from nearby wiring, exhaust). System sensitivity is too high (if adjustable). 	<ul style="list-style-type: none"> Clean sensors thoroughly. Verify sensors are flush and correctly oriented in the bumper. Relocate control unit or wiring away from interference sources. If your model allows, reduce system sensitivity.
No audible alerts.	<ul style="list-style-type: none"> Buzzer/speaker disconnected or faulty. Volume set too low (if adjustable). 	<ul style="list-style-type: none"> Check connection of buzzer/speaker to control unit. Ensure buzzer is not obstructed. If your model has volume control, adjust it.
Intermittent or inaccurate detection.	<ul style="list-style-type: none"> Dirty or damaged sensors. Loose wiring connections. Environmental factors (heavy rain, snow). Object type (very thin, sound-absorbing). 	<ul style="list-style-type: none"> Clean sensors. Inspect for physical damage. Check all wiring connections, especially sensor harnesses. Be aware of environmental limitations. Understand that certain objects may be harder to detect.

If troubleshooting steps do not resolve the issue, contact Rostra customer support for further assistance.

8. SPECIFICATIONS

The following specifications apply to the Rostra 250-1903-BZTRK Rear Bumper Parking Assistance System:

- **Model Number:** 250-1903-BZTRK (also referred to as 8542124828)
- **Brand:** Rostra
- **Auto Part Position:** Rear

- **Vehicle Service Type:** Trucks
- **Exterior Finish:** Black
- **Product Dimensions (Control Unit):** Approximately 8"D x 14"W x 3"H (Note: This dimension seems large for a control unit, likely refers to packaging or overall system components. Actual control unit is smaller.)
- **Item Weight:** 0.01 Ounces (Note: This is likely an error in the source data and refers to a single small component or is a placeholder. The full system will weigh more.)
- **Automotive Fit Type:** Vehicle Specific Fit
- **UPC:** 767408278348
- **GTIN:** 767408278348

Note: Specifications are subject to change without prior notice.

9. WARRANTY & SUPPORT

For specific warranty information regarding your Rostra 250-1903-BZTRK Rear Bumper Parking Assistance System, please refer to the documentation included with your product or visit the official Rostra website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

If you require technical assistance, have questions about installation, or need to report a defective component, please contact Rostra customer support directly. Contact information can usually be found on the product packaging or on the official Rostra website.

Rostra Website: www.rostra.com (Note: This is a placeholder URL, please verify the actual official website for Rostra)