## Brandmotion 9002-3010

# Brandmotion Universal 4-Sensor Parking Sensor System

**MODEL: 9002-3010**

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Brandmotion Universal 4-Sensor Switchable Front or Rear Parking Sensor System (Model 9002-3010). This system is designed to assist drivers in avoiding common parking accidents by providing distance detection and audible alerts.

## 2. Safety Information

Always exercise caution when parking. This system is an aid and should not replace careful driving and visual inspection of your surroundings. Ensure all connections are secure and properly insulated to prevent electrical hazards. Professional installation is recommended for optimal safety and performance.

## 3. Package Contents

Verify that all components are present before beginning installation:

- 4 Ultrasonic Sensors
- LED Display Unit
- Speaker Unit
- Electronic Control Unit (ECU)
- Sensor Harness (4 feet)
- Switch Cable (5 feet)
- Speaker Cable (5 feet)
- Body Harness (8 feet)
- Display Extension Cable (8 feet)

- Mounting Hardware (as applicable for tape-in/drill-in)

# 4. Setup and Installation

The Brandmotion 9002-3010 system can be installed on either the front or rear of your vehicle. It is compatible with both steel and plastic bumpers. Professional installation is highly recommended. DIY installation typically takes 180-240 minutes, while professional installation is estimated at 120-180 minutes.

## 4.1 Sensor Mounting

- **Plastic Bumpers:** Sensors are designed for rear tape-in mounting.
- **Metal Bumpers:** Sensors are designed for front drill-in mounting.
- Consult an automotive paint technician if you wish to customize the sensor color.



*Image 1: Example of the four ultrasonic parking sensors. These sensors are designed for flush mounting into the vehicle's bumper.*

## 4.2 Wiring Connections

1. Connect the 4' Sensor Harness from the body harness to the driver side sensor.
2. Connect the 5' Switch Cable to the Electronic Control Unit (ECU).
3. Connect the 5' Speaker Cable to the ECU.
4. Connect the 8' Body Harness from the ECU to the vehicle's power source and other necessary connections.

5. Connect the 8' Display Extension Cable to the LED Display Unit and the ECU.



*Image 2: The Electronic Control Unit (ECU) with a barcode label F20230801218. This unit processes sensor data and controls the display and speaker.*

## 5. Operating Instructions

Once installed, the parking sensor system provides visual and audible feedback to assist with parking maneuvers.

### 5.1 LED Display Unit

*Image 3: The LED display unit. It shows numerical distance to an object and uses color-coded segments (green, yellow, red) to indicate proximity.*

- The display shows the distance to the nearest object numerically.
- Color-coded segments (green, yellow, red) illuminate to visually represent proximity. Green indicates a safe distance, yellow indicates caution, and red indicates very close proximity.

## 5.2 Audible Alert Speaker



*Image 4: The speaker unit, visible as part of the display assembly. It features a switch with 'Off', 'Lo' (Low), and 'Hi' (High) volume options.*

- The speaker emits an audible alert that increases in frequency as your vehicle approaches an object.

- The speaker unit features a switch with "Off", "Low", and "High" volume options to suit user preference.

## 6. Maintenance

To ensure optimal performance and longevity of your parking sensor system:

- Keep sensors clean from dirt, snow, ice, and debris. Obstructions can lead to inaccurate readings.
- Periodically check all wiring connections for security and signs of wear.
- Avoid using harsh chemicals or abrasive materials when cleaning the sensors or display unit.

## 7. Troubleshooting

If you experience issues with your parking sensor system, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Inconsistent or False Alerts | <ul><li>Sensors are dirty or obstructed.</li><li>Heavy rain or snow.</li><li>Interference from other vehicle systems.</li><li>Improper sensor angle/installation.</li></ul> | <ul><li>Clean sensors thoroughly.</li><li>System performance may be affected by severe weather.</li><li>Ensure proper grounding and wiring.</li><li>Verify sensors are flush and correctly angled.</li></ul> |
| No Display or Audible Alert | <ul><li>Power connection issue.</li><li>Loose cable connections.</li><li>Speaker volume set to "Off".</li></ul> | <ul><li>Check power supply to the ECU.</li><li>Inspect all harness and cable connections.</li><li>Adjust speaker volume switch to "Lo" or "Hi".</li></ul> |
| Display Shows Incorrect Distance | <ul><li>Sensor obstruction.</li><li>Damaged sensor.</li></ul> | <ul><li>Clear any obstructions from sensors.</li><li>Contact support if a sensor is suspected to be faulty.</li></ul> |

## 8. Specifications

- **Model:** 9002-3010
- **Sensor Type:** 4 Ultrasonic Sensors
- **Operation:** Front or Rear (Switchable)
- **Display:** High-Quality LED, Numerical and Color-Coded
- **Alerts:** Audible, increasing frequency with proximity
- **Speaker Options:** Off, Low, High
- **Sensor Harness Length:** 4 feet
- **Switch Cable Length:** 5 feet
- **Speaker Cable Length:** 5 feet
- **Body Harness Length:** 8 feet
- **Display Extension Cable Length:** 8 feet
- **UPC:** 819779022409

- **Product Dimensions (Packaging):** 9.75" L x 7.25" W x 2.5" H
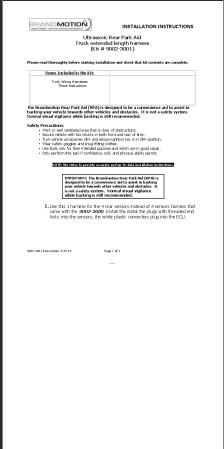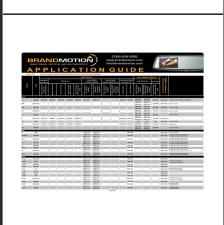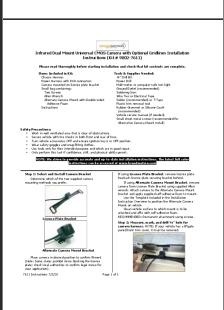- **Product Weight (Packaging):** 1.65 lbs

## 9. Warranty and Support

For warranty information or technical support, please contact Brandmotion customer service. Keep your proof of purchase for warranty claims.

**Brandmotion Contact:** Refer to the official Brandmotion website or your product packaging for the most current contact information.
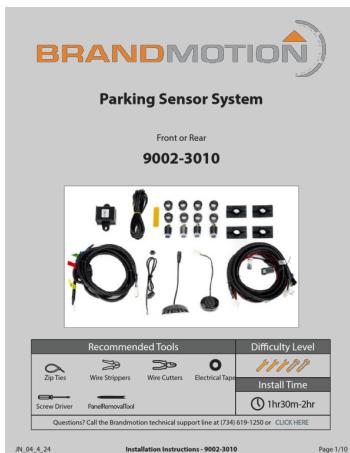
**Online Resources:** Visit the Brandmotion Store on Amazon

## Related Documents - 9002-3010

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|---|---|
|  | **BRANDMOTION 9002-3010 Parking Sensor System Installation Guide** <br> Comprehensive installation guide for the BRANDMOTION 9002-3010 Parking Sensor System. Covers front and rear bumper installation for plastic and metal bumpers, detailed wiring instructions, and system functionality for enhanced vehicle safety. |
|  | **Brandmotion Ultrasonic Rear Park Aid Truck Extended Length Harness Installation (Kit # 9002-3001)** <br> Official installation instructions for the Brandmotion Ultrasonic Rear Park Aid (RPA) Truck extended length harness, kit number 9002-3001. Includes safety precautions and step-by-step guidance. |
|  | **Brandmotion Application Guide: Vehicle Compatibility for Rear Vision and Mirror Systems** <br> The Brandmotion Application Guide provides essential compatibility information for automotive rear vision systems, auto-dimming mirrors, and related accessories. This guide helps users find the correct Brandmotion products for specific vehicle makes, models, and years, ensuring seamless integration and enhanced vehicle safety and convenience. |
|  | **Brandmotion Infrared Dual Mount Universal CMOS Camera Installation Instructions (Kit 9002-7611)** <br> Detailed installation guide for the Brandmotion Infrared Dual Mount Universal CMOS Camera Kit 9002-7611, including parts list, tools needed, safety precautions, and step-by-step instructions for mounting and wiring. |

Documents - Brandmotion – 9002-3010

BRANDMOTION 9002-3010 Parking Sensor System Installation Guide

Comprehensive installation guide for the BRANDMOTION 9002-3010 Parking Sensor System. Covers front and rear bumper installation for plastic and metal bumpers, detailed wiring instructions, and system functionality for enhanced vehicle safety.
lang:en score:53 filesize: 1.34 M page_count: 10 document date: 2024-04-05

[pdf] Installation Guide Instructions

Untitled Installation Instructions Universal Parking Sensor System Front or Rear 9002 3010 Brandmotion Final brandmotion |||

Parking Sensor System Front or Rear **9002-3010** Recommended Tools Difficulty Level Wrench Wire Strippers Wire Cutters Electrical Tape Install Time Screw Driver Panel Removal Tool Zip Ties Socket Set 1hr 30m - 2hr Questions Call the Brandmotion technical support line at 734 619-1250 or ...
lang:en score:52 filesize: 505.53 K page_count: 14 document date: 2023-02-13

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**BRANDMOTION**

**Parking Sensor System**

Front or Rear
**9002-3010**

| Recommended Tools | | | | Difficulty Level |
|---|---|---|---|---|
| Wrench | Wire Strippers | Wire Cutters | Electrical Tape | |
| | | | | **Install Time** |
| Screw Driver | Panel Removal Tool | Zip Ties | Socket Set | 1hr 30m - 2hr |

Questions? Call the Brandmotion technical support line at (734) 619-1250 or CLICK HERE