

# Instruction Manual

*Microwave Blind Spot Sensor System*

RVS-122





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*If you have questions about this product, contact:*

***Rear View Safety  
1797 Atlantic Avenue  
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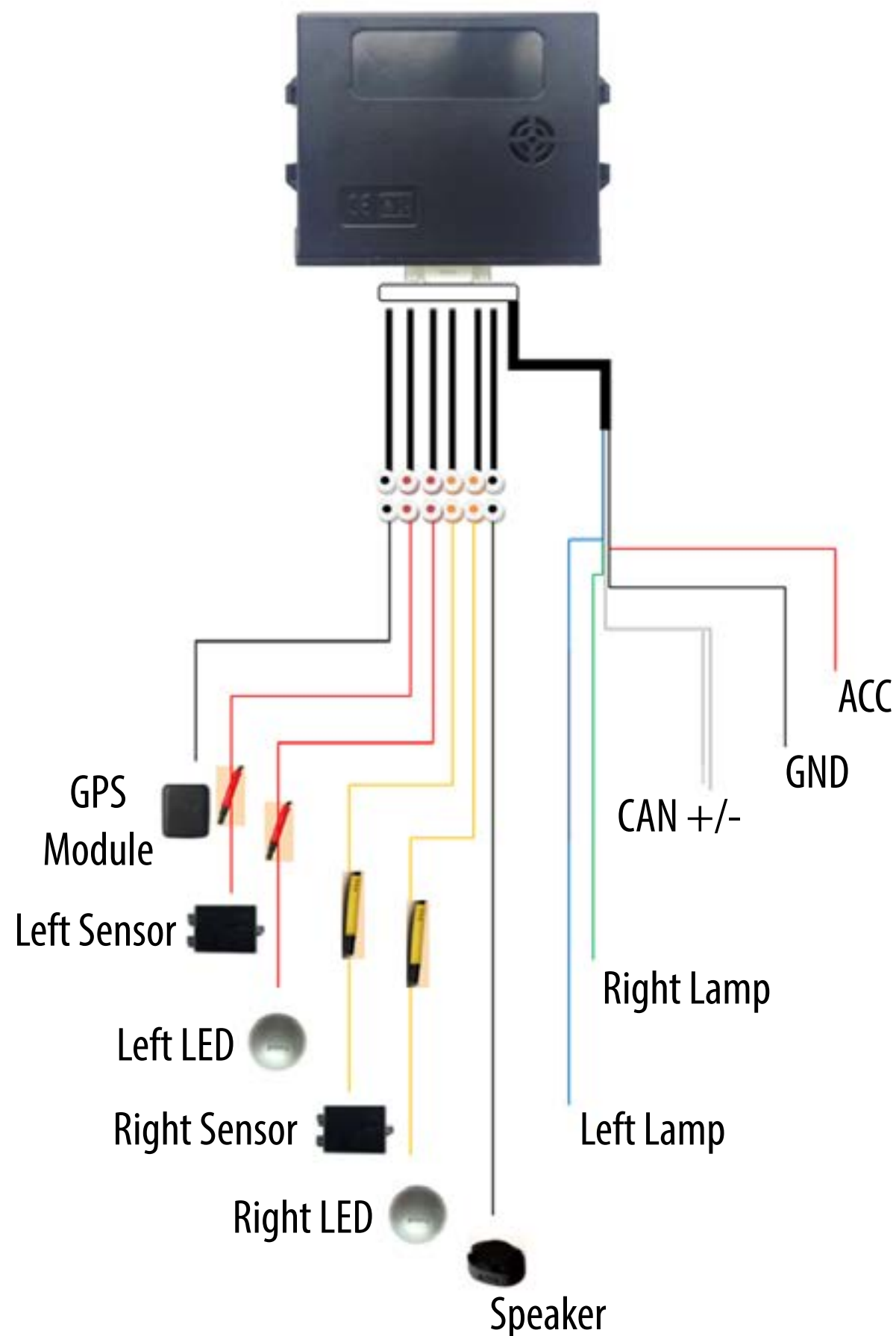
Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use. Keep all cables away from hot or moving parts and electrical noisy components.

*We recommend doing a benchmark test before installation to insure that all components are working properly.*

PLEASE READ THE ENTIRE MANUAL AND FOLLOW THE INSTRUCTIONS AND WARNINGS CAREFULLY. FAILURE TO DO SO CAN CAUSE SERIOUS DAMAGE AND/OR INJURY, INCLUDING LOSS OF LIFE. BE SURE TO OBEY ALL APPLICABLE LOCAL TRAFFIC AND MOTOR VEHICLE REGULATIONS AS IT PERTAINS TO THIS PRODUCT. IMPROPER INSTALLATION WILL VOID MANUFACTURER’S WARRANTY.

System Specifications

|                        |   |
|------------------------|---|
| Operating Frequency    | 24.0-24.25GHZ   |
| Transmission Power     | 15dbm   |
| Detection Range        | 40°C (Horizontal)   |
| Simultaneous Detection | Five objects can be detected simultaneously   |
| Speed Range            | 0.5mph-137mph   |
| Speed Restriction      | When GPS module is connected, notifications are activated over 20mph / If no GPS module is connected, the system will give notifications at any speed |
| Direction Of Movement  | Approached or overtaken by vehicles   |
| Detection Range        | Truck: 1ft-60ft / Car: 1ft-50ft / Motorcycle: 1ft-33ft / Pedestrian: 1ft-23ft / Pedestrian: 1ft-23ft  |
| Operating Voltage      | 9-35V   |
| Waterproof Rating      | Radar Sensors: IP65 / Cables: Not Waterproof  |
| Working Current        | <200mA  |
| Working Temperature    | -40°C ~ +85°C   |

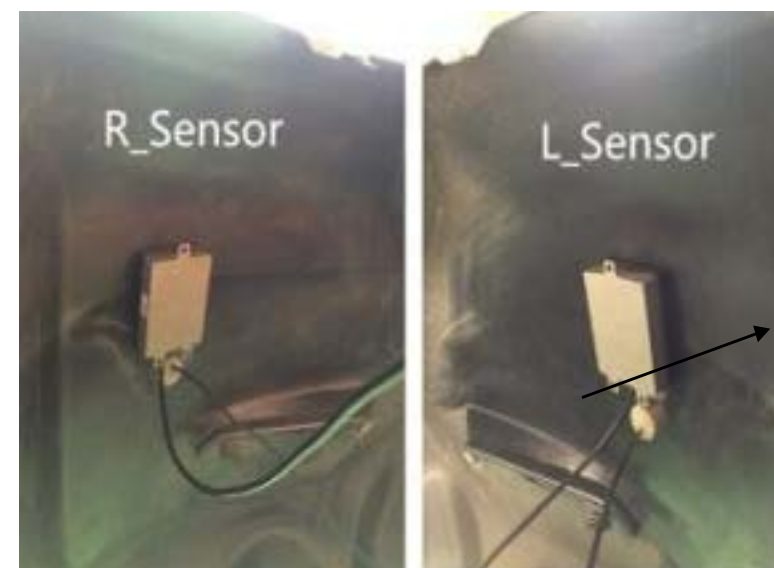


### *In The Box*

1 x Control Module / 1 x Power Harness / 2 x Radar Sensor  
 2 x LED Indicator / 1 x GPS Module / 1 x Speaker  
 4 x 3M Velcro Adhesive Pad

### *Installation Guide*

Sensors should be placed to the inner corner of the bumper with supplied Velcro. The angle should be between  $20^\circ \sim 25^\circ$  with the height ranging from 13-35 inches.



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Note: Sensors do not work with metal bumpers



Step 1: Use a protractor to determine sensor placement. The angle should be between  $20^{\circ} \sim 25^{\circ}$  with the high ranging from 13-35 inches.

Step 2: Locate the desired position for the sensors.



Step 3 : Remove the rear bumper to clean the surface for sensors.



Make sure surface is clean  
before placing velcro

Step 4: Place the provided velcro on the surface of the sensors (black side) and the desired location on the bumper (See image below).



## Turn Signal Installation

Step 5: Using a voltage multi-meter, locate the left and right turn signal trigger wires behind the tail lamp. Once verified, connect the left and right signal wires of the wire harness to the correct signal wires.



## LED Indicator Installation

Step 6: Place the LED indicators in view of the driver. Ideally they should be placed on the A-pillar or in field view side mirrors.



## Speaker Location

Step 7: While installing the speaker, make sure it is not obstructed by any panels inside the vehicle.



Step 8: Tuck the wires neatly to hide and prevent wire pinch.

## Illumination of the LED Indicator On Control Box

1. The LED comes on solid when the system is first powered up.
2. The LED blinks slowly while the GPS module connects.
3. The LED blinks quickly while sensing moving objects that are approaching in the blind spot (same frequency as to the alarm LED indicators & the buzzer).
4. The LED maintains the last blinking status after the alerts have ended.

Alert Conditions

- 1) When the vehicle is on, the system would start detecting objects in the blind area in the lane next to/behind the vehicle within 50 feet.
- 2) When vehicles are approaching and their speed is faster than your speed.



Right Side Detection

R-LED indicator will be activated when there is an object approaching to the right side blind area of your vehicle. While there will always be visual alerts, audio warnings will only trigger if the turn signal is on.

Left Side Detection

L-LED indicator will be activated when there is an object approaching to the left side blind area of your vehicle. While there will always be visual alerts, audio warnings will only trigger if the turn signal is on.

Troubleshooting

| Issue  | Reason  | Solution  |
|--|---|---|
| LED light doesn't work                       | Incorrect connection/<br>LED light broken   | Check connection/replace<br>LED light   |
| Opposite LED indicator                       | Microwave sensor<br>or LED indicators are<br>plugged in to the op-<br>posite connector  | Make sure RED is driver<br>side and YELLOW is pas-<br>senger side.                                    |
| Buzzer does not work                         | Wrong connection or<br>pins not making con-<br>tact / Defective buzzer<br>speaker       | Check the harness and<br>make sure connection is<br>correct / Replace buzzer                          |
| Sensors or GPS does<br>not work              | Sensors or GPS mod-<br>ule are covered by the<br>metal bumper or other<br>metal         | Find the best location<br>where the GPS antenna<br>cannot be blocked by any<br>metal                  |
| Unit does not work<br>after GPS is connected | Blind spot system does<br>not trigger the sensors<br>if the speed is less than<br>20mph | Normal behavior in this<br>case. The GPS needs to<br>detect more than 20mph<br>to trigger the sensors |



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