

nVISION®

BACK-UP SENSOR

WIRELESS BACK-UP SENSOR SYSTEM

Installation and Operation Manual

Model 20195VA-CL-EN

HOW IT WORKS

When your vehicle approaches an object in the detection zone (within 6 feet), an alert sound will increase with intensity as the object moves closer. The digital display shows distance and location to the nearest object behind the vehicle. Back your vehicle with confidence and safety.

Important Notice:

Please check the operation of your vehicle's reverse light before starting installation. In most vehicles, the reverse light wire will measure +12 volts when the vehicle is in reverse. **NOTE:** In a small number of vehicles, the reverse light wire will measure +12 volts when the vehicle is NOT in reverse. If the reverse light wire in your vehicle measures +12 volts when the vehicle is NOT in reverse, this Back Up Sensor will NOT work with your vehicle's reversing system.

Contents Included:

- 1 - Display Monitor
- 1 - Display Mount Adhesive
- 2 - Ultrasonic Sensors
- 1 - Monitor/Receiver Power cord
- 1 - Receiver Unit
- 1 - Receiver Mount Adhesive
- 2 - Sensor Adhesive Mounts
- 1 - Electronic Control Unit (ECU)
- 1 - ECU Adhesive Mount
- 2 - Power cords
- 4 - Scotchlocks

Installation Instructions:

1. Locate receiver in a suitable location (under dash). Run wire from receiver to display. Find a suitable location to mount the monitor.
2. Connect the red wire to a circuit that always has power in your vehicle. For example, the accessory wire. Please refer to your vehicle's owner manual or verify with a multi-meter a circuit that has power.
3. Connect the black wire to a clean metal chassis ground in your vehicle.

NOTE: IF YOU HAVE ANY QUESTIONS ABOUT THIS PRODUCT OR ITS INSTALLATION, CALL US TOLL-FREE AT 800-835-0129

Rear Sensors Installation:

1. Measure the width of your bumper and divide by 3. This will identify possible mounting locations for the sensors. Make sure you have at least 24" between the sensors. Sensors should also be approximately 2 feet above the ground.
2. **OPTION 1: If you want to conceal the wire**, you will need to drill (drill bit size 7/16") a small hole in your bumper for each sensor to allow the wire to pass through. When drilling, be careful to avoid any critical visual or operating components of the vehicle.

OPTION 2: There is a cut away in the top of the sensor where wire comes out. Remove the plastic in the cut away. Insert wires into cut away. This allows you to avoid drilling a hole in your bumper. The wires will run over your bumper to the control box.

3. Plug the wire from the sensor into the ECU. Plug the right hand sensor in "#3" (Passenger Side) and the left hand sensor in "#2" (Driver Side) on the control unit. Remove the film on the adhesive tape and mount sensors to bumper.

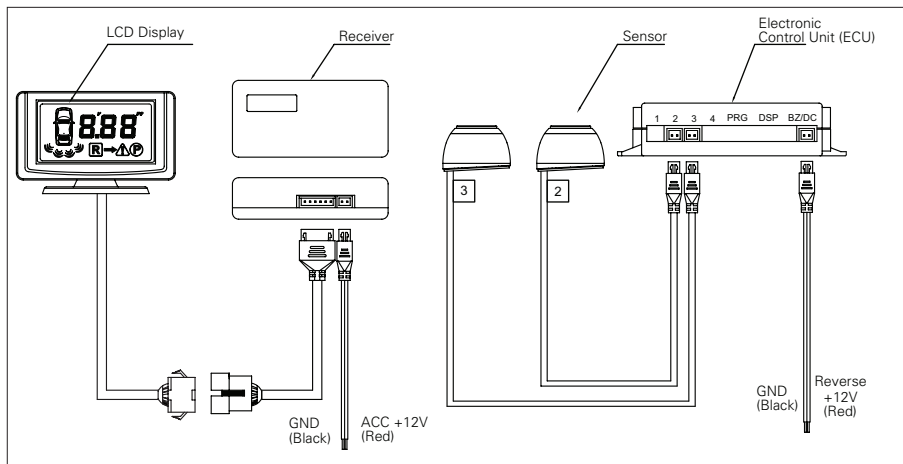
Note: If sensors are not working correctly "E2" (driver side) or "E3" (passenger side) will display on monitor.

Electronic Control Unit Installation:

1. Mount the ECU in a dry area inside your trunk. Make sure the wires are free from objects that may pull, crush, or cut the wires (especially when the trunk is opened and closed).
2. Connect the red wire from the ECU to the reverse light wire in your vehicle.

Sound On/Off:

1. To activate the system, the ignition must be on and transmission must be shifted in reverse. Make sure the brakes are set before programming to prevent your vehicle from moving.
2. On the back of the display there are 3 sound levels. (Low, Medium, High). Please adjust setting where needed.



2-Years Limited Warranty • Made in China

If you have any questions please call
1(800)-835-0129



Hopkins Manufacturing Corporation
428 Peyton, P.O. Box 1157, Emporia, KS 66801 - 1157
PH: (620) 342-7320 • Fax: (620) 340-8590
www.HopkinsMfg.com

Rev. A 6/10

www.nVisionSafety.com