Guardian Alert™ Backup Warning System
Installation Instruction for Model 1200 E Z Mount

The Guardian Alert™ Backup Warning System installs easily. The four-step procedure is simple and is not invasive for most vehicles.

Before installing the unit, please check to see that your box contains (1) sensor, (1) interior indicator, (1) power cable, (1) indicator cable, (5) wire ties. If any of the items are not included with your Guardian Alert™ unit, please contact S & S LLC at (800) 998-0555.

The E Z Mount unit wires can be installed through the interior of the vehicle (on the floor, ceiling or molding) or underneath the vehicle. The corresponding steps listed below may vary according to the location of the interior indicator and the desired installation of the unit wires.

To install the Guardian Alert™ system, follow the steps listed below:

**Step 1:** Place the interior indicator in an area of the vehicle that is visible to the driver and within his or her field of hearing. Conceal the interior indicator wire and lower it to the floorboard of the vehicle.

**Step 2:** The sensor should be mounted to the right of the license plate so that the edge of the license plate is flush with the unit and covering all wires. The surface of the vehicle must be clean, dry, and free of oil and wax. Remove protective liner and press firmly in place for full surface contact. Do not touch the adhesive after liner is removed. Secure the license plate to the vehicle. Important: Do not tighten the bolts to tight or the wires in behind the license plate will become cramped, crushed or cut! Run the wire into the vehicle.

**Step 3:** Find the end of the gray power wire, with the red tape that contains two internal wires (one red positive and one black ground) that connect to the vehicle reverse light wires. Remove one of the rear light housings and find the reverse light power and ground wire. For best connection it is recommended that one (1) inch of insulation is removed and these two wires are soldered to the vehicle reverse light wiring and properly re-insulated. Now attach the connectors at the other end of the red power wire to the red power wire coming from the Guardian Alert™ sensor. Tape or shrink-wrap the connection to be sure that nothing comes disconnected.

**Step 4:** Find the long gray indicator wire and attach it to the sensor wire. Now run it through or underneath the vehicle until it reaches the wire running from the Interior Indicator. Connect the male ends of the wire to the corresponding female ends of the Interior Indicator wire. Tape or shrink-wrap all connections to be sure that nothing comes disconnected. Conceal all wire and secure them to the vehicle in an appropriate place using the five enclosed wire ties.

*The Guardian Alert back up warning system is a drivers aid and is not intended to replace established safety procedures used when a vehicle is in reverse

The installation of the Guardian Alert™ E-Z Mount unit is complete. Now turn to the enclosed Guardian Alert™ Model 1200 Testing Procedures and complete all of those procedures to ensure that the installation is adequate and the unit is working correctly.

**IMPORTANT:** The Guardian Alert™ Backup Warning System is a driver aid and is not intended to replace established safety procedures used when a vehicle is in reverse.

CANADA35521021815
FCC ID M15GUARDIAN
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference, and
2) This device must accept any interference received, including interference that may cause undesired operation.
Now that the Guardian Alert™ E Z Mount installation is complete, follow all of the testing instructions listed below to ensure that the system is operating correctly. Do not use the Guardian Alert™ Backup Warning System until you have completed this testing process and have ascertained that the system is working correctly.

**WARNING: USE CAUTION WHEN WORKING AROUND ANY BACKING VEHICLES!!!!!!!**

**Step #1:** Park the vehicle on level ground at this time. Using a tape measure or a yardstick, measure the distance between the sensor and the ground. The Guardian Alert™ is set for optimum performance at a distance of twenty-four (24) to forty-two (42) inches between the sensor and the ground.

**Step #2:** One person should remain in the vehicle at all times. Set the parking brake. Turn the ignition switch on and place it in reverse. At this time, a green light will appear on the interior indicator to indicate that the unit has been activated in the proper manner. If the green light does not come on when the vehicle is placed in reverse, check the system to ensure that it is completely and correctly installed. It is possible if the green light does not come on that there is not enough voltage to the system. Check the battery with a voltage meter to ensure that there is at least **12 volts** going to the system.

**Step #3:** Using a tape measure, mark off a distance of twelve feet straight out from behind the vehicle. Ask a person to stand there. The vehicle should remain stationary while the person begins to walk toward it from behind. When the person reaches a distance of nine to ten feet from the sensor, the interior indicator should turn to a flashing yellow/green light and sound a pulsating noise. When the person reaches a distance of five feet from the sensor, the interior indicator should turn to a flashing red/green light and sound a faster pulsating noise. When the person is within a distance of three feet of the sensor, the interior indicator will show a solid red light and the noise should become continuous, warning the driver that an object is dangerously close to the vehicle.

**Step #4:** Now, place an object, such as metal folding chair, fifteen feet behind the vehicle. Put the vehicle in reverse and back toward the object at normal backing speed. The interior indicator should react in the same manner described in Step #3 as the sensor comes within nine feet, five feet, and three feet of the object.

**Step #5:** **Troubleshooting.** After making any adjustments during the testing of the Guardian Alert™, please return to Step #1 and complete the entire test to ensure that the system is working correctly.

If the system is not working correctly after completing these steps, please contact S&S LLC at (800) 998-0555.

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How to Walk Test the 9-5-3 Guardian Alert™

Model 1200
Do all tests from both sides of the sensor. (1) First, find a spot that is one foot from the side of the sensor and twelve feet back and walk to the side of the sensor at a normal walking pace. You should hear three separate tones at nine feet, five feet, and three feet. (2) Second, find a spot that is four to five feet outside of the sensor and twelve feet back. Walk in a straight line to the outside of the bumper. You should hear two separate tones at nine feet and at five feet. (3) Finally, find the same spot that was four feet outside of the sensor, and twelve feet to the back (No. 2). This time walk in a straight line directly toward the unit from that spot, you should receive the same three signals as the first test (No. 1) that you did at nine feet, five feet, and three feet.

*All numbers are approximate and may vary from system to system.

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