Guardian Alert™ Backup Warning System
Installation Instructions for
Heavy Duty Spring Loaded Mount Model 1800

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

Before installing the system, please check to see that the box contains (1) Guardian Alert™ Model 1800 sensor, (1) interior indicator, (1) black cased indicator bracket, (5) wire ties and (1) mounting template. If any of the items are missing, please contact S&S LLC at (800) 998-0555.

The Model 1800 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 Model 1800 wires.

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

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### Step 1: Sensor Attachment

Locate an area on the rear of the vehicle (as near as possible to the center of the vehicle) that is twenty-four (24) to forty-two (42) inches off the ground. The installation area should be perpendicular to the ground. Clean the area thoroughly. Place the mounting template in the desired installation area and mark the holes with a marker or pencil. Drill mounting holes in the marked installation area. The Guardian Alert™ is equipped with four 3/8” inch holes. There are two black AMP connectors at the back of the unit (one with red tape and one with blue tape). Plug the connectors together making sure that the connectors with the red tape are connected together and the ones with the blue tape are connected together.

### Step 2: Power wiring

Locate the red taped power cord, inside it has one white positive and one black ground wire, that connect to the vehicle reverse light wires. Remove a rear light housing. Find the reverse light power and ground wire. Secure the wires to the reverse light power and ground wires. **For the best connection, it is recommended that one inch of insulation be removed and these two wires soldered to the vehicle reverse light wiring and properly re-insulated.** Plug the male and female ends of the black AMP connectors together.

### Step 3: Interior indicator placement

Place the interior indicator in a forward area of the vehicle that is visible to the driver and within his or her range of hearing. Conceal the indicator wire and place it in an area that will remain free of driver interference.

### Step 4: Indicator cable

Locate the blue taped indicator cord and run the end without tape through or underneath the vehicle until it reaches the wire running from the interior indicator. Plug the male and female ends of the white AMP connector together. Plug the male and female ends of the black AMP connectors together.

The installation of the Guardian Alert Heavy Duty Spring Loaded Mount is complete. Now please turn to the enclosed Guardian Alert Model 1800 Testing Instructions and complete all of the steps to ensure that the system is working properly.

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**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.

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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.
Guardian Alert™ Backup Warning System
9-5-3 Testing Instructions
Heavy Duty Spring Loaded Mount Model 1800

Now that the Guardian Alert™ Model 1800 installation is complete, please 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 EXTREME 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 actual 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 vehicle and the ground.

Step #2: One person should remain in the vehicle at all times. Set the parking brake. Turn the vehicle 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. 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 that if the green light does not come on that the system is not receiving enough voltage. 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 ten to eight feet from the vehicle, the interior indicator should turn to a flashing yellow/green light and sound a pulsating noise. When the person reaches a distance of seven to five feet from the vehicle, the interior indicator should turn to a flashing red/green light and sound a faster pulsating noise. When that person is within a distance of three to four feet from the vehicle, the interior indicator should 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 a metal folding chair, twenty five feet behind the vehicle. Put the vehicle in reverse and drive toward the object. The interior indicator should react in the same manner described in Step #3 as the vehicle 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 procedures, please contact S&S LLC at (800) 998-0555.

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

Model 1800
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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