

Delphi Factory-installed Dual-beam Radar Back-up Aid

► Description

Delphi Factory-installed Dual-beam Radar Back-up Aid is designed to help drivers detect obstacles behind their vehicles when backing. It also aids in tight parking situations. Automatically enabled when the vehicle is in reverse, Back-up Aid uses a 24GHz, dual-beam radar to monitor a 5-meter (16.4-foot) deep by 2.1-meter (6.9-foot) wide area behind the vehicle. Using a speed-sensitive algorithm, adaptive audible and optional visual alerts give the driver the information appropriate to driving conditions. When traveling at typical backing speeds (4.8 kph/3mph to 11.3 kph/7mph), imminent collision warnings and the 5-meter sensor range help provide drivers the time required to take action to avoid a backing accident. The system also provides distance information alerts that help make parking easier.

► Benefits

- Longest detection zone available helps provide driver more time to react to detected obstacles
- Operates under a wide range of environmental conditions (rain, snow, ice, fog, daylight, darkness and noise)
- Hidden sensor
 - Complements vehicle styling
 - Protected from low-speed impacts behind bumper fascia
- Detects moving and non-moving objects to provide superior performance than competing systems
- Distance-based alerts help drivers park conveniently
- CAN-based interface for alerts or optional braking commands
- Does not require driver to monitor visual display, unlike camera-based systems
- Helps drivers to keep their eyes on the road while backing
- Audible and or visual alerts available using driver alert device or audio system
- Automatic braking commands via the CAN bus are can be designed in to enhance collision mitigation countermeasures



Delphi Factory-installed Dual-beam Radar Back-up Aid

Delphi Factory-installed Dual-beam Radar Back-up Aid

► Features

- Dual-beam, continuous wave (non-Doppler) radar sensing
- 16.4-foot (5-meter) deep by 6.9-foot (2.1-meter) wide detection zone
- Radar sensor hidden behind bumper fascia
- Speed-based imminent-collision warnings
- Distance-based alert that vary dependent upon closeness of vehicle to obstacle
- Analog output for piezoelectric beeper connection
- One-piece system – radar and controller in single package w/single connector
- Optional vehicle pre-wiring for hitch-mount

Source: NHTSA*
Insurance Institute for Highway Safety**

Delphi's Back-up Aid is designed to supplement other safety practices by enhancing the driver's awareness of the area in the backing path of the vehicle. It is not designed to detect small objects, especially those that are low to the ground. There is always the possibility that an object in the detection zone may not be detected. Responsibility for vehicle control and safe operation of the vehicle remains with the driver.