Rear Cross Traffic

What is Rear Cross Traffic

What:

A system that utilizes a radar sensors to recognize when a vehicle is in close proximity when backing from a parking space

Why:

To improve passenger safety by providing warnings to potentially tired or distracted drivers.

Benefits:

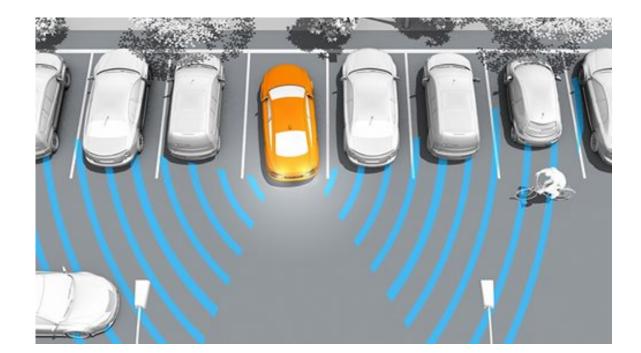
Decrease in accidents / injuries / deaths caused by tired or distracted drivers

How:

Utilization of sensors and electronically controlled systems can interpret and react to changing conditions faster than a human driver in many situations reacts. System is "Passive" (Provide audio, visual or haptic feedback) to notify driver of a pending situation or can be "Active" (Intervention braking) as the situation dictates.

Rear Cross Traffic Operation

Rear facing radar sensors recognize cross traffic vehicles when the vehicle is backing from a parking space. System will alert driver and may be able to apply brakes if necessary.



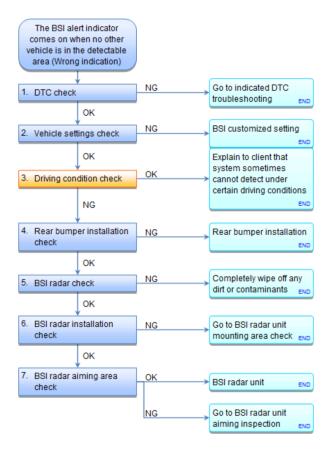
Rear Cross Traffic Components

Radar sensors Module(s) Brake System For emergency braking **Control Switch Visual Indicators** Audio Haptic feedback (Steering wheel shake) **Steering resistance**



Rear Cross Traffic Diagnosis

Visual inspection Damage bumpers Damage to sensors Fault codes OFM SAE **Electrical testing** Power Ground **Signals BUS Communications**



3. Driving condition check:

- -1. Interview the client about when the symptom occurred to determine if an inspection is needed. NOTE: The BSI system cannot work properly in the following driving situations:
 - In rainy, snowy, or foggy weather.
 - When receiving a jamming signal from outside.
 - When followed by other vehicles at a curve in a road.
 - When another vehicle is getting close to yours when turning right or left.
 - When the rear bumper is deformed.
 - When the sensor is out of place.
 - In places where there is a guardrail, pole, or tree.
 - When an area of the bumper around the installed sensor is soiled.

Is an inspection required?



NO Explain to the client that the system sometimes cannot detect under certain driving conditions.

Many systems share sensors, fault tracing can be the same in some cases

Rear Cross Traffic Service / Calibration

Mechanical

Targets

Some sensors hard mounted, some may be adjustable

Non-related repairs and services can require calibration

Alignment

Collision

Self / Auto Driving

