

■ DIAGNOSIS

1. General

The diagnosis circuit of the pre-crash safety system is integrated in the Seat Belt Control ECU. This ECU detects malfunctions that may occur in the system in accordance with the signals provided by the ECUs and the sensors. The diagnosis function consists of an initial check, monitor, and DTC output functions.

2. Initial Check

The Seat Belt Control ECU performs an initial check on the system for approximately three seconds after the power source has been turned IG-ON.

3. Monitor Function

After completing the initial check, the pre-crash safety system becomes ready to operate. During this time, the Seat Belt Control ECU periodically monitors the system for any malfunctions.

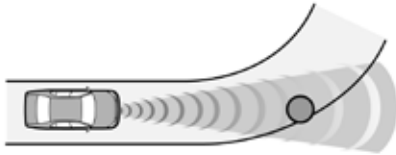
4. DTC Output

- If the Seat Belt Control ECU detects a malfunction in the pre-crash safety system, it stores 5-digit DTCs (Diagnostic Trouble Codes) in memory.
- The 5-digit DTCs can be read by connecting an intelligent tester II to the DLC3.

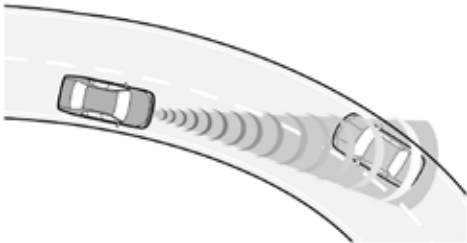
5. Precaution for Pre-crash Safety System Operation

- When the millimeter wave radar sensor detects an object in front under the conditions described below, the Distance Control ECU may determine that a collision is unavoidable, and operate the pre-crash safety system. However, this is not abnormal.

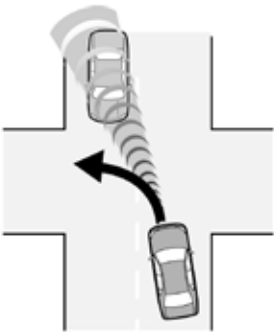
Object on road surface at corner entrance
(Guard Rail, Street Light, Sign, Signboard)



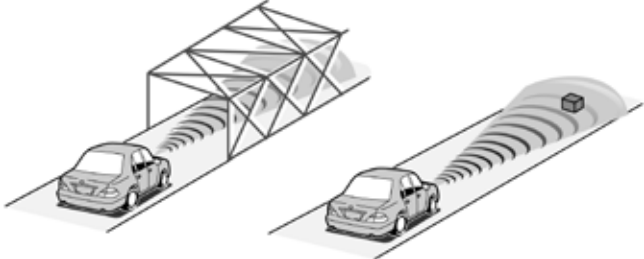
Opposing traffic vehicle during cornering



Opposing traffic at intersection



Narrow Iron Bridge



Metal object, steel plate, or bump on road surface

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- The millimeter wave radar sensor might not be able to detect the following objects as collision objects:

Objects that cannot be detected	Plastic items (Safety Cones, etc.), etc.
Objects that cannot be detected in a stable manner	People, Bicycles, Motorcycles, Trees, Animals, Snow Fence, etc.